



PROPOSED COURTYARD LECTURE HALL

FOR
FACULTY OF SCIENCE
BAUCHI STATE UNIVERSITY, GADAU.

BILL OF QUANTITIES

SEPTEMBER, 2014

ITEM	BILL NO 1 - PRELIMINARIES	QTY	UNIT	RATE	AMOUNT IN BOQ
M	DESCRIPTION				E.T.C (N)
A	Site Clearance				
B	Setting out				300,000.00
C	Site Accommodation for Employer' representatives				1,000,000.00
D	Temporary Building				1,200,000.00
E	Progress Photograph				200,000.00
F	Electricity				900,000.00
G	Water				500,000.00
H	Temporary Fencing and Access Roads				400,000.00
J	Welfare and Safety				150,000.00
K	First Aid Box				100,000.00
L	Watching and Lighting				500,000.00
M	Program and phasing				100,000.00
N	Site Meeting				500,000.00
O	Scaffolding and plant				600,000.00
P	Records				50,000.00
Q	Test and Samples				200,000.00
R	Site Board				100,000.00
S	Clearing rubbish and cleaning on completion				200,000.00
T	Production of Drawings and Bills				400,000.00
U	Security Expenses				200,000.00
V	Community Relations				
W	Compensation				
X	Transportation				500,000.00
Y	Mapping out of Plots				400,000.00
	Bill No 1 Preliminaries carried to General Summary				N
					8,500,000.00
ITEM	BILL NO 2: ROW OF FOUR AUDITORIUMS	QTY	UNIT	RATE	AMOUNT IN BOQ

M	DESCRIPTION	QTY	UNIT	RATE	E.T.C (N)
A	Excavate to remove vegetable topsoil average 150mm thick and remove from site.	1,775	m ²	110.00	195,206.00
B	Excavate pit for Column Bases starting at strip level maximum depth not exceeding 1.5m	308	m ³	900.00	277,020.00
C	Excavate trench for Foundation ditto	601	m ³	850.00	511,147.50
D	Excavate working space ditto and backfill	107	m ³	850.00	91,247.50
E	Backfill selected excavated materials round Foundation	454	m ³	1,300.00	590,330.00
F	Remove surplus excavated materials from site	909	m ³	200.00	181,830.00
G	Level and compact bottom of excavation to receive concrete.	464	m ²	150.00	69,540.00
H	Prepare and apply 'Diedrex 20' anti-termite treatment solution to general surface area and bottom of excavation	464	m ²	130.00	60,268.00
J	Excavated soft laterite filling including compacting in layers not exceeding 250mm thick	201	m ³	1,800.00	362,520.00
K	Hardcore filling to make up level average 300mm well compacted and sand blinded to receive concrete	426	m ³	3,500.00	1,489,600.00
	<i>Concrete Works</i>				
	<i>Plain Insitu Concrete (Mix C 15)</i>				
L	Blinding 50mm thick	47	m ³	23,000.00	1,070,650.00
	<i>Reinforced Insitu Concrete (Mix C20)</i>				
M	In Foundation	93	m ³	35,000.00	3,258,500.00
	<i>Carried to Collection</i>				8,157,859.00

Bill No 2: ROW OF FOUR AUDITORIUMS					
ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<i>Reinforced Insitu Concrete (Mix C25)</i>				
A	In Column Bases	69	m ³	35,000.00	2,427,250.00
B	In Starter Columns	7	m ³	35,000.00	232,750.00
C	In Floor Slab 250mm thick	355	m ³	35,000.00	12,435,500.00
D	In Steps / Ramp	8	m ³	35,000.00	266,000.00
	<i>Reinforcement</i>				
E	12mm diameter bar in Bases	2,246	kg	280.00	628,824.00
F	16mm diameter bar in Columns	1,265	kg	280.00	354,312.00
G	10mm ditto in Stirrups	356	kg	280.00	99,750.00
H	BRC Mesh Fabric type A 142 laid flat (measured net)	1,420	m ²	1,000.00	1,420,250.00
	<i>Sawn Formwork to:</i>				
J	Sides of Bases	173	m ²	1,960.00	338,884.00
K	Sides of Columns	199	m ²	1,960.00	389,158.00
L	Edge of Bed 150mm high	297	m	800.00	237,880.00
	<i>Blockwork</i>				
	<i>Hollow Sandcrete Blockwall in Cement and Sand mortar void filled solid with concrete</i>				
M	225mm Wall	1,069	m ²	4,500.00	4,809,375.00
	<i>Finishing's</i>				
N	<i>Cement and sand (1:4) Render on :</i>				
	Walls	1,069	m ²	900.00	961,875.00
	<i>Prepare and apply one mist coat and one final coat of approved colour and quality Silk Emulsion Paint on:</i>				
P	Rendered Walls	1,069	m ²	600.00	641,250.00
	<i>Carried to Collection</i>				
					25,243,058.00

Bill No 2: ROW OF FOUR AUDITORIUMS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Allow the Provisional Sum of =N=1,500,000.00 for Additional Foundation to be expended as directed		Sum		1,500,000.00
	<i>Protection</i>				50,000.00
B	Protect all works in this section				
	<i>Carried to Collection</i>				1,550,000.00
	<i>COLLECTION</i>				
	<i>Page 3</i>				8,157,859.00
	<i>Page 4</i>				25,243,058.00
	<i>Page 5</i>				1,550,000.00
	SUBSTRUCTURE				
	<i>Carried to Summary</i>				34,950,917.00

Bill No 2: ROW OF FOUR AUDITORIUMS
CONCRETE WORK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<i>Reinforced Insitu Concrete (Mix C25)</i>				
A	In Columns	23	m ³	35,000.00	805,000.00
B	In Lintel	21	m ³	35,000.00	735,000.00
C	In Roof Beam/Facial	92	m ³	35,000.00	3,220,000.00
D	In Roof Slab	68	m ³	35,000.00	2,380,000.00
	<i>Reinforcement</i>				
E	10 - 12mm diameter bar Columns	4,118	kg	280.00	1,153,040.00
F	10 - 16mm ditto in Roof Beam/facial	6,040	kg	280.00	1,691,200.00
G	10 - 12mm ditto in Lintel	3,780	kg	280.00	1,058,400.00
H	10 - 12mm ditto in suspended roof slab	5,317	kg	280.00	1,488,760.00
	<i>Sawn Formwork to:</i>				
J	Sides of Columns	321	m ²	1,960.00	629,160.00
K	Sides and soffit of Roof Beams/Facial	1482	m ²	1,960.00	2,904,720.00
L	Sides and soffit of Lintel	349	m ²	1,960.00	684,040.00
M	soffit of Suspended Roof slab	1482	m ²	1,960.00	2,904,720.00
	CONCRETE WORK <i>Carried to Summary</i>				19,654,040.00

Bill No 2: ROW OF FOUR AUDITORIUMS
BLOCKWORK AND BRICK WORK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<i>Hollow Sandcrete Blockwall in Cement and Sand (1:4) mortar</i>				
A	225mm Wall - External	3,246	m ²	3,500.00	11,361,000.00
B	225mm Wall - Internal	710	m ²	3,500.00	2,485,000.00
	<i>Protection</i>				
C	Protect all works in this section				50,000.00
	BLOCKWORK AND BRICK WORK <i>Carried to Summary</i>				13,896,000.00

Bill No 2: ROW OF FOUR AUDITORIUMS
ROOF CONSTRUCTION & COVERING

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<i>Corrugated Aluminum Sheet Roofing</i>				
	<i>Corrugated long span aluminum roofing sheets, 0.70mm thick, colour to Architect instruction; single lap covering; 150mm minimum end laps; fixing complete with hooks, drive screws, felt and washers.</i>				
A	Roofing	2462	m ²	3,500.00	8,617,000.00
B	Capping 600mm girth	72	m	1,200.00	86,400.00
C	Aluminum Eave angle 200mm girth	198	m	320.00	63,360.00
	<i>Protection</i>				10,000.00
D	Protect all works in this section				50,000.00
	ROOF CONSTRUCTION & COVERING <i>Carried to Summary</i>				8,826,760.00

Bill No 2: ROW OF FOUR AUDITORIUMS Including generator house |
STRUCTURAL STEEL WORK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Structural steel work 60 x 60 x 6mm Angle iron rafter	2853	m	1,800.00	5,135,400.00
B	50 x 50 x 6mm Angle iron struts	4785	m	1,800.00	8,613,000.00
C	150 x 50 x2mm Zeal purlin	540	m	2,600.00	1,404,000.00
D	100 x 50 x 6mm thick angle cleat	86	m2	5,000.00	430,000.00
E	100 x 100 x 6mm thick gusset plate	52	m2	6,000.00	312,000.00
F	16mm diameter bolt	600	m	500.00	300,000.00
G	12mm diameter sag rod	548	m	220.00	120,560.00
STRUCTURAL STEEL WORK					16,314,960.00
<i>Carried to Summary</i>					

**Bill No 2: ROW OF FOUR AUDITORIUMS
CARPENTRY AND JOINERY**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<u>Treated Sawn Hardwood</u> 50 x 50mm Noggins and Plugs	2,049	m	250.00	512,250.00
B	<u>Protection</u> Protect all works in this section				50,000.00
	CARPENTRY AND JOINERY <i>Carried to Summary</i>				562,250.00

Bill No 2: ROW OF FOUR AUDITORIUMS
METAL WORK

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<i>Steel Doors</i>				
	<i>Purpose made Metal swing door of high quality made in strict accordance with schedule including frame and Ironmongery plugged to concrete or blockwall</i>				
A	Double leaves size 1800 x 2100mm high	14	no	200,000.00	2,800,000.00
	<i>Aluminum Windows</i>				
	<i>Powder coated anodized Window of Off White or other colour as specified and quality (METALUM standard) with 5mm thick tinted glazing including all necessary locks, mosquito netting plugged to concrete/blockwork in accordance with Manufacturer's instructions</i>				
B	<i>Sliding Window</i> size 1200 x 4000mm high	32	no	176,000.00	5,632,000.00
C	Ditto 1200 x 600mm high	8	no	30,000.00	240,000.00
	<i>Protection</i>				
D	Protect all works in this section				50,000.00
	METAL WORK <i>Carried to Summary</i>				8,722,000.00

Bill No 2: ROW OF FOUR AUDITORIUMS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>FIRE FIGHTING</u>				
A	9KG ABC Fire Extinguisher	16	no	40,000.00	640,000.00
	MECHANICAL INSTALLATIONS				
	Carried to Summary				640,000.00

**Bill No 2: ROW OF FOUR AUDITORIUMS
FITTINGS AND FIXTURES**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Supply and install high quality sit fixed with table	1120	no	30,000.00	33,600,000.00
	FITTINGS AND FIXTURES <i>Carried to Summary</i>				33,600,000.00

Bill No 2: ROW OF FOUR AUDITORIUMS
ELECTRICAL INSTALLATIONS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<p>ELECTRICAL INSTALLATIONS</p> <p>Include the Provisional Sum of =N= 10,000,000.00 for Electrical conducting, cabling, fittings and connection to the main including all necessary connections to be executed completely as directed by the Supervising Officer</p>		sum		10,000,000.00
	<p>ELECTRICAL INSTALLATIONS <i>Carried to Summary</i></p>				10,000,000.00

Bill No 2: ROW OF FOUR AUDITORIUMS
FLOOR, WALL AND CEILING FINISHINGS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>FLOOR FINISHES</u>				
	<i>600 x 600 x 10mm thick fully Vitrified Floor Tiles of approved colour and quality laid on screeded bed (measured separately) in approved pattern joints pointed in matching colour</i>				
A	Floor Tiling	1495	m ²	3,800.00	5,681,000.00
B	Skirting 100mm high	401	m	600.00	240,600.00
	 <i>Cement and Sand (1:3) Beds and Backings</i>				
C	40mm ditto in screeded bed to receive Vitrified Tiles	1,495	m ²	750.00	1,121,250.00
D	25mm ditto in screeded bed	401	m ²	600.00	240,600.00
	<u>WALL FINISHES</u>				
	<u>Internal</u>				
	<i>Cement and Sand (1:4) Render on :</i>				
E	Walls	4,684	m ²	1,300.00	6,089,200.00
F	Surfaces not exceeding 230mm wide	180	m	276.00	49,680.00
	<i>Carried to Collection</i>				13,422,330.00

Bill No 2: ROW OF FOUR AUDITORIUMS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<i>CEILING FINISHES</i>				
	<i>600 x 600mm PVC CEILING fixed to hardwood noggins</i>				
A	Ceiling	1,495	m ²	2,500.00	3,737,500.00
	<i>External</i>				
	<i>Cement and Sand (1:4) Render on :</i>				
B	Walls	2835	m ²	1,300.00	3,685,500.00
C	Surfaces not exceeding 230mm wide	325	m	276.00	89,700.00
	<i>CEILING FINISHES</i>				
	<i>600 x 600mm PVC CEILING fixed to hardwood noggins</i>				
D	Ceiling	278	m ²	2,500.00	695,000.00
	<i>Protection</i>				
E	Protect all works in this section				50,000.00
	<i>Carried to Collection</i>				8,257,700.00
	<i>COLLECTION</i>				
	<i>Page 16</i>				13,422,330.00
	<i>Page 17</i>				8,257,700.00
	FLOOR, WALL AND CEILING FINISHINGS				
	<i>Carried to Summary</i>				21,680,030.00

Bill No 2: ROW OF FOUR AUDITORIUMS
 PAINTING AND DECORATING

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<i>Internal</i>				
	<u>Walls</u>				
	<u>Prepare and apply one mist coat and one final coat of approved colour and quality Silk Emulsion</u>				
	<u>Paint on floated :</u>				
A	Rendered Walls	4,684	m ²	900.00	4,215,600.00
B	Surfaces not exceeding 230mm wide	180	m	150.00	27,000.00
	<i>External</i>				
	<u>Wall</u>				
	<u>Prepare and apply one mist coat and one final coat of approved colour and quality Silk Emulsion</u>				
	<u>Paint on floated :</u>				
C	Rendered Walls	2835	m ²	900.00	2,551,500.00
D	Surfaces not exceeding 230mm wide	325	m	150.00	48,750.00
	<i>Carried to Collection</i>				6,842,850.00

Bill No 2: ROW OF FOUR AUDITORIUMS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<i>Prepare and apply one mist coat and one final coat of approved colour and quality Gloss Paint on floated :</i>				
A	General surfaces of Metalwork	500	m ²	750.00	375,000.00
	<i>Protection</i>				
B	Protect all works in this section				40,000.00
	Carried to Collection				415,000.00
	COLLECTION				
	<i>Page 18</i>				6,842,850.00
	<i>Page 19</i>				415,000.00
	PAINTING AND DECORATING				
	<i>Carried to Summary</i>				7,257,850.00

S U M M A R Y				
A	SUBSTRUCTURES			34,950,917.00
B	CONCRETE WORKS			19,654,040.00
C	BLOCKWORK AND BRICKWORK			13,896,000.00
D	ROOF CONST. & COVERING			8,826,760.00
E	STRUCTURAL STEEL WORK			16,314,960.00
F	CARPENTRY & JOINERY			562,250.00
G	METAL WORKS			8,722,000.00
H	MECHANICAL INSTALLATIONS			640,000.00
J	FIXTURES AND FITTINGS			33,600,000.00
K	ELECTRICAL INSTALLATIONS			10,000,000.00
L	FLOOR, WALL AND CEILING FINISHES			21,680,030.00
M	PAINTING AND DECORATING			7,257,850.00
				176,104,807.00
CARRIED TO MAIN SUMMARY				176,104,807.00

S/N	DESCRIPTIONS OF WORK	QTY	UNIT	RATE	AMOUNT IN BOQ (N)
	MAIN SUMMARY				
1	BILL NO. 1 PRELIMINARIES				8,500,000.00
2	BILL NO. 2 COURTYARD LECTURE HALL				176,104,807.00
3	BILL NO. 3 TOILET				4,387,720.00
4	BILL NO. 4 EXTERNAL WORK				14,567,888.00
					203,560,415.00
	<u>ADD</u>				
5	CONTINGENCY				5,000,000.00
6	SUB -TOTAL				208,560,415.00
	PROPOSED COURTYARD LECTURE HALL				208,560,415.00