



PROPOSED PINWHEEL LECTURE HALL DEVELOPMENT

FOR  
FACULTY OF ARTS

**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				100,000.00
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				800,000.00
V	Community Relations				
W	Compensation				
X	Transportation				500,000.00
Y	Mapping out of Plots				400,000.00
	<b>Bill No 1 Preliminaries carried to General Summary</b>				<b>N</b>
					<b>9,100,000.00</b>
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.	3,075	m <sup>2</sup>	110.00	338,250.00
B	Excavate pit for Column Bases starting at strip level maximum depth not exceeding 1.5m	278	m <sup>3</sup>	900.00	250,200.00
C	Excavate trench for Foundation ditto	532	m <sup>3</sup>	850.00	452,200.00
D	Excavate working space ditto and backfill	113	m <sup>3</sup>	850.00	96,050.00
E	Backfill selected excavated materials round Foundation	402	m <sup>3</sup>	1,300.00	522,600.00
F	Remove surplus excavated materials from site	804	m <sup>3</sup>	200.00	160,800.00
G	Level and compact bottom of excavation to receive concrete.	500	m <sup>2</sup>	150.00	75,000.00
H	Prepare and apply 'Diedrex 20' anti-termite treatment solution to general surface area and bottom of excavation	912	m <sup>2</sup>	130.00	118,560.00
J	Excavated soft laterite filling including compacting in layers not exceeding 250mm thick	178	m <sup>3</sup>	1,800.00	320,400.00
K	Hardcore filling to make up level average 300mm well compacted and sand blinded to receive concrete	376	m <sup>3</sup>	3,500.00	1,316,000.00
	<b><i>Concrete Works</i></b>				
	<b><i>Plain Insitu Concrete ( Mix C 15 )</i></b>				
L	Blinding 50mm thick	41	m <sup>3</sup>	23,000.00	943,000.00
	<b><i>Reinforced Insitu Concrete ( Mix C20 )</i></b>				
M	In Foundation	82	m <sup>3</sup>	35,000.00	2,870,000.00
	<b><i>Carried to Collection</i></b>				7,463,060.00

Bill No 2: ROW OF FOUR AUDITORIUMS					
ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><i>Reinforced Insitu Concrete ( Mix C25 )</i></b>				
A	In Column Bases	62	m <sup>3</sup>	35,000.00	2,170,000.00
B	In Starter Columns	6	m <sup>3</sup>	35,000.00	210,000.00
C	In Floor Slab 200mm thick	461	m <sup>3</sup>	35,000.00	16,135,000.00
D	In Steps / Ramp	7	m <sup>3</sup>	35,000.00	245,000.00
	<b><i>Reinforcement</i></b>				
E	12mm diameter bar in Bases	2482	kg	280.00	695,016.00
F	16mm diameter bar in Columns	1399	kg	280.00	391,608.00
G	10mm ditto in Stirrups	394	kg	280.00	110,250.00
H	BRC Mesh Fabric type A 142 laid flat (measured net)	2304	m <sup>2</sup>	880.00	2,027,520.00
	<b><i>Sawn Formwork to:</i></b>				
J	Sides of Bases	191	m <sup>2</sup>	1,960.00	374,556.00
K	Sides of Columns	219	m <sup>2</sup>	1,960.00	430,122.00
L	Edge of Bed 250mm high	263	m	800.00	210,400.00
	<b><i>Blockwork</i></b>				
	<b><i>Hollow Sandcrete Blockwall in Cement and Sand mortar void filled solid with concrete</i></b>				
M	225mm Wall	945	m <sup>2</sup>	4,500.00	4,252,500.00
	<b><i>Finishing's</i></b>				
N	<b><i>Cement and sand (1:4) Render on :</i></b>				
	Walls	945	m <sup>2</sup>	900.00	850,500.00
	<b><i>Prepare and apply one mist coat and one final coat of approved colour and quality Silk Emulsion Paint on:</i></b>				
P	Rendered Walls	945	m <sup>2</sup>	600.00	567,000.00
	<b><i>Carried to Collection</i></b>				
					28,669,472.00

<b>Bill No 2: ROW OF FOUR AUDITORIUMS</b>					
<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
A	Allow the Provisional Sum of =N=1,500,000.00 for Additional work in Foundation to be expended as directed		Sum		1,500,000.00
	<i>Protection</i>				50,000.00
B	Protect all works in this section				
	<b><i>Carried to Collection</i></b>				<b>1,550,000.00</b>
	<b><i>COLLECTION</i></b>				
	<i>Page 3</i>				7,463,060.00
	<i>Page 4</i>				28,669,472.00
	<i>Page 5</i>				1,550,000.00
	<b>SUBSTRUCTURE</b> <b><i>Carried to Summary</i></b>				<b>37,682,532.00</b>

**Bill No 2: ROW OF FOUR AUDITORIUMS  
CONCRETE WORK**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><i>Reinforced Insitu Concrete ( Mix C25 )</i></b>				
A	In Columns	27	m <sup>3</sup>	35,000.00	945,000.00
B	In Lintel	24	m <sup>3</sup>	35,000.00	840,000.00
C	In Beam	32	m <sup>3</sup>	35,000.00	1,120,000.00
D	Suspended slab	109	m <sup>3</sup>	35,000.00	3,815,000.00
E	Suspended roof slab	278	m <sup>3</sup>	35,000.00	9,730,000.00
	<b><i>Reinforcement</i></b>				
F	10 - 12mm diameter bar Columns	4324	kg	280.00	1,210,692.00
G	10 - 16mm ditto in Beam	5292	kg	280.00	1,481,760.00
H	10 - 12mm ditto in Lintel	3969	kg	280.00	1,111,320.00
J	10 - 16mm ditto in Slab	8146	kg	280.00	2,280,880.00
K	10 - 16mm ditto in Roof Slab	9972	kg	280.00	2,792,160.00
	<b><i>Sawn Formwork to:</i></b>				
L	Sides of Columns	588	m <sup>2</sup>	1,960.00	1,152,480.00
M	Sides and soffit of Roof Beams	601	m <sup>2</sup>	1,960.00	1,177,960.00
N	Sides and soffit of Lintel	366	m <sup>2</sup>	1,960.00	718,242.00
P	soffit of slab	728	m <sup>2</sup>	1,960.00	1,426,880.00
Q	soffit of Roof slab	362	m <sup>2</sup>	1,960.00	709,520.00
	<b>CONCRETE WORK Carried to Summary</b>				<b>30,511,894.00</b>

**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	3,550	m <sup>2</sup>	3,500.00	12,425,000.00
B	150mm Wall	421	m <sup>2</sup>	3,400.00	1,431,400.00
	<i>Protection</i>				
C	Protect all works in this section				50,000.00
	<b>BLOCKWORK AND BRICK WORK</b> <i>Carried to Summary</i>				<b>13,906,400.00</b>

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

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><i>Corrugated Aluminum Sheet Roofing</i></b>				
	<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	1462	m <sup>2</sup>	3,500.00	5,117,000.00
B	Capping 600mm girth	115	m	1,200.00	138,000.00
	<i>Protection</i>				
C	Protect all works in this section				50,000.00
	<b>ROOF CONSTRUCTION &amp; COVERING</b> <b><i>Carried to Summary</i></b>				<b>5,305,000.00</b>



**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	1946	m	1,800.00	3,502,170.00
B	50 x 50 x 6mm Angle iron struts	3481	m	1,800.00	6,266,250.00
C	150 x 50 x2mm Zeal purlin	675	m	2,600.00	1,755,000.00
D	100 x 50 x 6mm thick angle cleat	1108	m2	2,500.00	2,768,750.00
E	100 x 100 x 6mm thick gusset plate	360	m2	4,000.00	1,440,000.00
F	16mm diameter bolt	750	m	500.00	375,000.00
G	12mm diameter sag rod	685	m	300.00	205,500.00
<b>STRUCTURAL STEEL WORK</b>					<b>16,312,670.00</b>
<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	2,744	m	250.00	686,000.00
D	<u>Protection</u> Protect all works in this section				50,000.00
	<b>CARPENTRY AND JOINERY</b> <i>Carried to Summary</i>				<b>736,000.00</b>

**Bill No 2: ROW OF FOUR AUDITORIUMS**  
**METAL WORK**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><i>Steel Doors</i></b>				
	<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 1500 x 2100mm high	16	no	180,000.00	2,880,000.00
B	Double leaves size 1200 x 2100mm high	4	no	143,640.00	574,560.00
C	Single size 900 x 2100mm high	12	no	107,000.00	1,284,000.00
	<b><i>Aluminum Windows and Doors</i></b>				
	<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, plugged to concrete/blockwork in accordance with Manufacturer's instructions</i>				
D	<b><i>Sliding Window</i></b> size 1000 x 4000mm high	24	no	176,000.00	4,224,000.00
E	Ditto 900 x 600mm high	16	no	30,000.00	480,000.00
F	Ditto 900 x 1200mm high	36	no	50,000.00	1,800,000.00
F	Skylight 1200 x 600mm high	28	no	90,000.00	2,520,000.00
	<b><i>Protection</i></b>				
G	Protect all works in this section				50,000.00
	<b>METAL WORK</b> <b><i>Carried to Summary</i></b>				<b>13,812,560.00</b>

Bill No 2: ROW OF FOUR AUDITORIUMS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>FIRE FIGHTING</u></b>				
A	9KG ABC Fire Extinguisher	16	no	40,000.00	640,000.00
	<b>MECHANICAL INSTALLATIONS</b> 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
<b>FITTINGS AND FIXTURES</b> <i>Carried to Summary</i>					<b>33,600,000.00</b>

**Bill No 2: ROW OF FOUR AUDITORIUMS**  
**ELECTRICAL INSTALLATIONS**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<p><b>ELECTRICAL INSTALLATIONS</b></p> <p>Include the Provisional Sum of =N= 15,000,000.00 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		15,000,000.00
	<p><b>ELECTRICAL INSTALLATIONS</b>  <i>Carried to Summary</i></p>				<b>15,000,000.00</b>

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

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>FLOOR FINISHES</u></b>				
	<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	2340	m <sup>2</sup>	3,800.00	8,892,000.00
B	Skirting 100mm high	423	m	600.00	253,800.00
	 <i>Cement and Sand (1:3) Beds and Backings</i>				
C	40mm ditto in screeded bed to receive Vitrified Tiles	2,340	m <sup>2</sup>	750.00	1,755,000.00
D	25mm ditto in screeded bed	423	m <sup>2</sup>	600.00	253,800.00
	<b><u>WALL FINISHES</u></b>				
	<b><u>Internal</u></b>				
	<i>Cement and Sand (1:4) Render on :</i>				
E	Walls	4,970	m <sup>2</sup>	1,300.00	6,461,000.00
F	Surfaces not exceeding 230mm wide	355	m	276.00	97,980.00
	<b><i>Carried to Collection</i></b>				<b>17,713,580.00</b>

## Bill No 2: ROW OF FOUR AUDITORIUMS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<i>Internal</i>				
	<b><i>CEILING FINISHES</i></b>				
	<i>600 x 600mm PVC CEILING fixed to hardwood noggins</i>				
A	Ceiling	2,340	m <sup>2</sup>	1,800.00	4,212,000.00
	<i>External</i>				
	<i>Cement and Sand (1:4) Render on :</i>				
B	Walls	1065	m <sup>2</sup>	1,300.00	1,384,500.00
C	Surfaces not exceeding 230mm wide	523	m	276.00	144,348.00
	<i>Protection</i>				
D	Protect all works in this section				50,000.00
	<i>Carried to Collection</i>				<b>5,790,848.00</b>
	<b><i>COLLECTION</i></b>				
	<i>Page 16</i>				<b>17,713,580.00</b>
	<i>Page 17</i>				<b>5,790,848.00</b>
	<b>FLOOR, WALL AND CEILING FINISHINGS</b>				
	<i>Carried to Summary</i>				<b>23,504,428.00</b>



Bill No 2: ROW OF FOUR AUDITORIUMS  
PAINTING AND DECORATING

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><i>Internal</i></b>				
	<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	4,970	m <sup>2</sup>	900.00	4,473,000.00
B	Surfaces not exceeding 230mm wide	355	m	150.00	53,250.00
	<b><i>External</i></b>				
	<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	1065	m <sup>2</sup>	900.00	958,500.00
D	Surfaces not exceeding 230mm wide	523	m	150.00	78,450.00
	<b><i>Carried to Collection</i></b>				<b>5,563,200.00</b>

## 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	289	m <sup>2</sup>	750.00	216,750.00
	<i>Protection</i>				
B	Protect all works in this section				40,000.00
	<b>Carried to Collection</b>				<b>256,750.00</b>
	<b>COLLECTION</b>				
	<i>Page 18</i>				<b>5,563,200.00</b>
	<i>Page 19</i>				<b>256,750.00</b>
	<b>PAINTING AND DECORATING</b>				
	<i>Carried to Summary</i>				<b>5,819,950.00</b>

<u>S U M M A R Y</u>				
A	SUBSTRUCTURES			37,682,532.00
B	CONCRETE WORKS			30,511,894.00
C	BLOCKWORK AND BRICKWORK			13,906,400.00
D	ROOF CONST. & COVERING			5,305,000.00
E	STRUCTURAL STEEL WORK			16,312,670.00
F	CARPENTRY & JOINERY			736,000.00
G	METAL WORKS			13,812,560.00
H	PLUMBING & MECHANICAL INSTALLATIONS			640,000.00
J	FIXTURES AND FITTINGS			33,600,000.00
K	ELECTRICAL INSTALLATIONS			15,000,000.00
L	FLOOR, WALL AND CEILING FINISHES			23,504,428.00
M	PAINTING AND DECORATING			5,819,950.00
				196,831,434.00
CARRIED TO MAIN SUMMARY				196,831,434.00

S/N	DESCRIPTIONS OF WORK	QTY	UNIT	RATE	AMOUNT IN BOQ (N)
	<b>MAIN SUMMARY</b>				
1	BILL NO. 1 PRELIMINARIES				9,100,000.00
2	BILL NO. 2 PINWHEEL LECTURE HALL				196,831,434.00
3	BILL NO. 3 TOILET				4,387,720.00
4	BILL NO. 4 EXTERNAL WORK				14,567,888.00
					224,887,042.00
	<u>ADD</u>				
5	CONTINGENCY				6,000,000.00
6	SUB -TOTAL				230,887,042.00
	<b>TOTAL</b>				230,887,042.00
	<b>PROPOSED PINWHEEL LECTURE HALL</b>				<b>230,887,042.00</b>