



PROPOSED CIRCULAR LECTURE HALL DEVELOPMENT

FOR

FACULTY OF SCIENCE
BAUCHI STATE UNIVERSITY, GADAU.

BILL OF QUANTITIES

SEPTEMBER, 2014

ITEM	BILL NO 1 - PRELIMINARIES	QTY	UNIT	RATE	AMOUNT IN BOQ E.T.C (N)
M	DESCRIPTION				
A	Site Clearance				
B	Setting out				500,000.00
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				800,000.00
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				600,000.00
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 9,400,000.00
ITEM	Bill No 2: ROW OF FOUR AUDITORIUMS	QTY	UNIT	RATE	AMOUNT IN BOQ E.T.C (N)
M	DESCRIPTION				
A	Excavate to remove vegetable topsoil average				

	150mm thick and remove from site.	3,844	m ²	110.00	422,840.00
B	Excavate pit for Column Bases starting at strip level maximum depth not exceeding 1.5m	347	m ³	900.00	312,300.00
C	Excavate trench for Foundation ditto	665	m ³	850.00	565,250.00
D	Excavate working space ditto and backfill	141	m ³	850.00	119,595.00
E	Backfill selected excavated materials round Foundation	502	m ³	1,300.00	652,470.00
F	Remove surplus excavated materials from site	1005	m ³	200.00	200,970.00
G	Level and compact bottom of excavation to receive concrete.	512	m ²	150.00	76,860.00
H	Prepare and apply 'Diedrex 20' anti-termite treatment solution to general surface area and bottom of excavation	512	m ²	130.00	66,612.00
J	Excavated soft laterite filling including compacting in layers not exceeding 250mm thick	223	m ³	1,800.00	400,680.00
K	Hardcore filling to make up level average 300mm well compacted and sand blinded to receive concrete	470	m ³	3,500.00	1,646,400.00
	<u>Concrete Works</u>				
	<u>Plain Insitu Concrete (Mix C 15)</u>				
L	Blinding 50mm thick	51	m ³	23,000.00	1,183,350.00
	<u>Reinforced Insitu Concrete (Mix C20)</u>				
M	In Foundation	103	m ³	35,000.00	3,601,500.00
	<u>Carried to Collection</u>				9,248,827.00

Bill No 2: ROW OF FOUR AUDITORIUMS					
ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Reinforced Insitu Concrete (Mix C25)</u>				
A	In Column Bases	77	m ³	35,000.00	2,682,750.00
B	In Starter Columns	7	m ³	35,000.00	257,250.00
C	In Floor Slab 150mm thick	424	m ³	35,000.00	14,840,000.00
D	In Steps / Ramp	8	m ³	35,000.00	294,000.00
	<u>Reinforcement</u>				
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)	2828	m ²	880.00	2,488,640.00
	<u>Sawn Formwork to:</u>				
J	Sides of Bases	191	m ²	1,960.00	374,556.00
K	Sides of Columns	219	m ²	1,960.00	430,122.00
L	Edge of Bed 250mm high	329	m	800.00	262,920.00
	<u>Blockwork</u>				
	<u>Hollow Sandcrete Blockwall in Cement and Sand mortar void filled solid with concrete</u>				
M	225mm Wall	1181	m ²	4,500.00	5,315,625.00
	<u>Finishing's</u>				
N	<u>Cement and sand (1:4) Render on :</u>				
	Walls	1181	m ²	900.00	1,063,125.00
	<u>Prepare and apply one mist coat and one final coat of approved colour and quality Silk Emulsion Paint on:</u>				
P	Rendered Walls	1181	m ²	600.00	708,750.00
	<u>Carried to Collection</u>				
					29,914,612.00

Bill No 2: ROW OF FOUR AUDITORIUMS		QTY	UNIT	RATE	AMOUNT
A	Allow the Provisional Sum of =N=1,000,000.00 for Additional work in Foundation to be expended as directed		Sum		1,000,000.00
	<i>Protection</i>				50,000.00
B	Protect all works in this section				
	<i>Carried to Collection</i>				1,050,000.00
	<i>COLLECTION</i>				
	<i>Page 3</i>				9,248,827.00
	<i>Page 4</i>				29,914,612.00
	<i>Page 5</i>				1,050,000.00
	SUBSTRUCTURE <i>Carried to Summary</i>				40,213,439.00

**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	24	m ³	35,000.00	845,250.00
B	In Lintel	22	m ³	35,000.00	771,750.00
C	In Beam and facial	34	m ³	35,000.00	1,190,000.00
D	Suspended roof slab	582	m ³	35,000.00	20,370,000.00
	<i>Reinforcement</i>				
E	10 - 12mm diameter bar Columns	4324	kg	280.00	1,210,692.00
F	10 - 16mm ditto in Beam/Facial	5292	kg	280.00	1,481,760.00
G	10 - 12mm ditto in Lintel	3969	kg	280.00	1,111,320.00
H	10 - 16mm ditto in Roof Slab	49470	kg	280.00	13,851,600.00
	<i>Sawn Formwork to:</i>				
J	Sides of Columns	588	m ²	1,960.00	1,152,480.00
K	Sides and soffit of Roof Beams/Facial	506	m ²	1,960.00	991,956.00
L	Sides and soffit of Lintel	349	m ²	1,960.00	684,040.00
M	soffit of Roof slab	3127	m ²	1,960.00	6,128,920.00
	CONCRETE WORK Carried to Summary				49,789,768.00

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	3,858	m ²	3,500.00	13,503,000.00
B	150mm Wall	330	m ²	3,400.00	1,122,000.00
	<i>Protection</i>				
C	Protect all works in this section				50,000.00
	BLOCKWORK AND BRICK WORK <i>Carried to Summary</i>				14,675,000.00

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 2800mm high	12	no	200,000.00	2,400,000.00
B	Single size 900 x 2400mm high	6	no	120,000.00	720,000.00
	<i>Aluminum Windows and Doors</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, plugged to concrete/blockwork in accordance with Manufacturer's instructions</i>				
C	<i>Sliding Window</i> size 1200 x 4000mm high	32	no	176,000.00	5,632,000.00
D	Ditto 900 x 600mm high	20	no	25,000.00	500,000.00
E	Ditto 1500 x 600mm high	14	no	41,000.00	574,000.00
	<i>Protection</i>				
F	Protect all works in this section				50,000.00
	METAL WORK <i>Carried to Summary</i>				9,876,000.00

Bill No 2: ROW OF FOUR AUDITORIUMS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<i>FIRE FIGHTING</i>				
A	9KG ABC Fire Extinguisher	15	no	40,000.00	600,000.00
	MECHANICAL INSTALLATIONS Carried to Summary				600,000.00

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
	<u>ELECTRICAL INSTALLATIONS</u>				
A	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		sum		15,000,000.00
	<u>ELECTRICAL INSTALLATIONS</u> <i>Carried to Summary</i>				15,000,000.00

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

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<i>FLOOR FINISHES</i>					
<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	2828	m ²	2,800.00	7,918,400.00
B	Skirting 100mm high	643	m	600.00	385,800.00
 <i>Cement and Sand (1:3) Beds and Backings</i>					
C	40mm ditto in screeded bed to receive Vitrified Tiles	2,828	m ²	450.00	1,272,600.00
D	25mm ditto in screeded bed	643	M	100.00	64,300.00
<i>WALL FINISHES</i>					
<i>Internal</i>					
<i>Cement and Sand (1:4) Render on :</i>					
E	Walls	5,542	m ²	900.00	4,987,800.00
F	Suffict of suspended slab	3,127	m ²	1,300.00	4,065,100.00
G	Surfaces not exceeding 230mm wide	560	m	276.00	154,560.00
<i>Carried to Collection</i>					18,848,560.00

Bill No 2: ROW OF FOUR AUDITORIUMS

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>External</u>				
	<u>Cement and Sand (1:4) Render on :</u>				
A	Walls	1087	m ²	1,300.00	1,413,100.00
B	Surfaces not exceeding 230mm wide	560	m	276.00	154,560.00
	<u>Protection</u>				
C	Protect all works in this section				50,000.00
	<i>Carried to Collection</i>				1,617,660.00
	<u>COLLECTION</u>				
	<i>Page 16</i>				18,848,560.00
	<i>Page 17</i>				1,617,660.00
	FLOOR, WALL AND CEILING FINISHINGS <i>Carried to Summary</i>				20,466,220.00

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 Paint on floated :</u>				
A	Rendered Walls	5,542	m ²	600.00	3,325,200.00
B	Surfaces not exceeding 230mm wide	560	m	150.00	84,000.00
C	Prepare and apply two coats of weathersheid 'berger' textured paint on Suffict of suspended roof slab	3127	m	980.00	3,064,460.00
	<i>External</i>				
	<u>Wall</u>				
	<u>Prepare and apply one mist coat and one final coat of approved colour and quality Silk Emulsion Paint on floated :</u>				
D	Rendered Walls	1087	m ^c	900.00	978,300.00
E	Surfaces not exceeding 230mm wide	560	m	150.00	84,000.00
	<i>Carried to Collection</i>				7,535,960.00

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	360	m ²	750.00	270,000.00
	<i>Protection</i>				
B	Protect all works in this section				40,000.00
	<i>Carried to Collection</i>				310,000.00
	<i>COLLECTION</i>				
	<i>Page 18</i>				7,535,960.00
	<i>Page 19</i>				310,000.00
	PAINTING AND DECORATING <i>Carried to Summary</i>				7,845,960.00

S/N	DESCRIPTIONS OF WORK	QTY	UNIT	RATE	AMOUNT IN BOQ (N)
	<u>MAIN SUMMARY</u>				
1	BILL NO. 1 PRELIMINARIES				9,400,000.00
2	BILL NO. 2 CIRCULAR LECTURE HALL				192,066,387.00
3	BILL NO. 3 TOILET				4,387,720.00
4	BILL NO. 4 EXTERNAL WORK				14,567,888.00
					220,421,995.00
	<u>ADD</u>				
5	CONTINGENCY				10,000,000.00
6	SUB -TOTAL				230,421,995.00
	PROPOSED CIRCULAR LECTURE HALL				230,421,995.00