

BILL NO 1

GENERAL CONDITIONS, PRELIMINARIES  
AND TRADE PREAMBLES

**A10: PROJECT PARTICULARS**

A

**Name, Nature and Location**

**NAME: PROPOSED ACE BUILDING**

**NATURE: OFFICE BLOCKS, LABORATORY ROOM AND CLASSROOMS**

**LOCATION: UNIVERSITY OF LAGOS**

**Names and addresses of Employer and Project manager**

B

**"EMPLOYER (CLIENT)"**

**UNIVERSITY OF LAGOS, AKOKA, YABA**

C

**PROJECT MANAGER**

**FUNMIAYINKE NIG . LTD**

**APT 3, NO 10, TITO BROS STREET, OFF JIMMY CARTER  
STREET, ASOKORO ,FCT, ABUJA.**

Carried to collection

A	<p><b><u>"THE CONTRACTOR"</u></b></p> <p>.....</p> <p>.....</p> <p>.....</p>				
B	<p><b><u>A20: THE CONTRACT/SUB-CONTRACT</u></b></p> <p><b>Form of Contract</b> JCT 80;1994 revision standard conditions</p>				
C	<p><b>Under Seal</b> <u>Performance guarantee bond/collateral warranties</u> <u>Advance payment bond</u></p> <p>This shall be from approved Bank. Only on special consideration shall an Insurance bond or other types of bonds be acceptable.</p> <p><b><u>EMPLOYER'S REQUIREMENTS: PROVISION, CONTENT AND USE OF DOCUMENTS</u></b> Employer's requirements or limitations</p>				
C	<p>No part of the tender document shall be copied or use for any other purposes than for this project without the written consent of Consultant (s) concerned</p> <p>Fixed charge</p> <p><b><u>A32: EMPLOYERS REQUIREMENTS: MANAGEMENT</u></b></p>				
D	<p><b><u>Employer's requirements or limitations</u></b></p> <p>The contractor shall be required to carry out test materials for Inclusion in the works</p>				
E	<p>Include the following <b>Provisional Sums</b> for Testing of Materials .....</p>	1	Sum	250,000.00	250,000.00
	<p>Carried to collection</p>				250,000.00
Preliminaries 1/2					

A	<p><b><u>Statutory charges</u></b> include the provisional Sum of N <b><u>The contractor shall submit progress photograph in 5sets on monthly basis with site progress report on the basis approved by the Architect</u></b></p>				
B	<p>Fixed charges</p> <p><b><u>Supervision of the works.</u></b> <b><u>An English speaking qualified full time supervisor shall be required for duration of the contract period</u></b></p>	1	item	300,000.00	300,000.00
C	<p>Fixed charge</p> <p><b><u>A34: EMPLOYERS REQUIREMENT: SECURITY SAFETY/PROTECTION</u></b></p>	1	item		
D	<p>Employer's requirements or limitations, details stated Maintain public and private roads Time related charge</p> <p><b><u>Protection of Work in all sections</u></b></p>	1	item	200,000.00	200,000.00
E	<p>Time related charge</p> <p><b><u>A35:EMPLOYER'S REQUIREMENTS: SPECIFIC LIMITATIONS ON METHOD /SEQUENCE/TIMING/ USE OF SITE</u></b></p>	1	item	150,000.00	150,000.00
F	<p>Employer's requirement or limitations,details stated</p> <p><b><u>Design constraints; Contractors are advised to view the designs (Architectural, Structural and Services) and allow here for complying with any constrain imposed on the work due to the nature of the design,component materials and specifications.</u></b></p>				
G	<p>Fixed charge</p> <p><b><u>Method and sequence of work: Tenderers are advised to read through the "instruction to person tendering" and allow herein for any special obligation imposed on the contractors on method and work sequence</u></b></p>	1	item		
H	<p>Fixed charge</p>	1	item		
	<p>Carried to collection</p> <p>Preliminaries 1/3</p>				650,000.00

A	<u>Access: This shall include maintaining of existing road adjoining the site for the duration of the works</u>  Time Related Charge	1	item	100,000.00	100,000.00
B	<u>Use of the site: it is expected that the site will be used only for the purpose of the work</u> <u>The site shall not be for any other unrelated activities except with the express and written permission of the Architect</u>  Fixed charge	1	item		
C	<u>Working hours; This shall be between the hours of 7am to 5pm (Monday to Saturday)</u> <u>Any additional working hour may be employed by the contractor for the purpose of meeting work schedule and targets as laid down in the work program</u> <u>Any additional cost of fulfilling the contractors obligation in term of meeting program targets should be allowed here.</u>  Time related charge	1	item	150,000.00	150,000.00
D	<u>Overtime/labour fluctuation : Overtime claim will only be entertained where specifically requested and ordered by the Architect to cover delays under clause 26.2.1 to 26.2.6 of the contracts conditions.</u> <u>Fluctuation claim on labour shall be on the actual labour work force on site.The contractor is to make allowance herein for claim to cover off-site work force partially employed on the work.</u>  Fixed charge   Carried to collection   Preliminaries 1/4	1	item	150,000.00	150,000.00   400,000.00
<b><u>EMPLOYERS REQUIREMENTS:FACILITIES/</u></b>					

	<b><u>TEMPORARY/WORKS/SERVICES</u></b>				
A	<b><u>Employer's requirements or limitations,details stated officers;site offices for use by the contractor for the project duration</u></b>				
	Fixed charge	1	item		
	Time related charge	1	item	250,000.00	250,000.00
B	<b><u>Sanitary accomodation</u></b>				
	Fixed charge	1	item		
	Time related charge	1	item		
C	<b><u>Temporary fences,hoardings,screens and roofs</u></b>				
	Fixed charge	1	item	300,000.00	300,000.00
	Time related charge	1	item		
D	<b><u>Name boards</u></b>				
	Fixed charge	1	item	150,000.00	150,000.00
	<b><u>A37: EMPLOYER'S REQUIREMENTS; OPERATION/ MAINTENANCE OF THE FINISHED BUILDING</u></b>				
E	<b><u>Employer's requirements or limitations</u></b>				
	The contractor shall be expected to maintain and keep the building free of defect for six months duration of DEFECTS LIABILITY PERIOD				
	Fixed charge	1	item		
	Carried to collection				700,000.00
	Preliminaries 1/5				
	<b><u>A40: CONTRACTOR'S GENERAL COST ITEMS:</u></b>				

A	<b><u>MANAGEMENT AND STAFF</u></b> General management staff including site supervisors, site clerk and site management staff  Fixed charge	1	item	100,000.00	100,000.00
<b><u>A41: CONTRACTOR'S GENERAL COST ITEMS:</u></b>					
B	<b><u>SITE ACCOMODATION</u></b> Site accommodation shall include site office and sanitary rooms for consultants (2Nr offices) complete with air-conditioning, office desk and drawers and tables.  Time related charge	1	item		
C	<b><u>One air conditioned large meeting room to contain a          minimum of 15 persons complete with comfortable          meeting table and chairs and the contractor shall provide          for one wireless fixed digital telephones for use by the          consultants for the duration of the contract period and          provide for refreshment (finger meals and drinks) for          every site meetings (twice monthly)</u></b>  Fixed charge  Time related charge	1	item	500,000.00	500,000.00
<b><u>CONTRACTOR'S GENERAL COST ITEMS: SERVICES          AND FACILITIES</u></b>					
D	<b><u>SERVICES AND FACILITIES</u></b> <b><u>Temporary Power including standby generator for use by          main contractor and subcontractors for the duration of          the contract.</u></b>  Fixed charge  Time related charge    Carried to collection Preliminaries 1/6	1	item	300,000.00	300,000.00
A	<b><u>Temporary Water for the work including for general use          by main contractor and sub -contractor for the duration of          the contract</u></b>				

	Fixed charge	1	item		
	Time related charge	1	item	250,000.00	250,000.00
B	<b><u>Telephone and administration</u></b>				
	Fixed charge	1	item		
	Time related charge	1	item		
C	<b><u>Safety , health,and welfare</u></b>				
	Fixed charge	1	item		
	Time related charge	1	item	250,000.00	250,000.00
D	<b><u>Storage of materials including lock up spaces for specialist sub-contractors</u></b>				
	Fixed charge	1	item		
	Time related charge	1	item	500,000.00	500,000.00
E	<b><u>Rubbish disposal</u></b>				
	Time related charge	1	item	200,000.00	200,000.00
F	<b><u>Cleaning</u></b>				
	Time related charge	1	item	250,000.00	250,000.00
G	<b><u>Protection of work in all section</u></b>				
	Time related charge	1	item		
H	<b><u>Site Security including day and night security staff</u></b>				
	Time related charge	1	item		
J	<b><u>Small plant and tools</u></b>				
	Fixed charge	1	item		
	Time related charge	1	item	150,000.00	150,000.00
	Carried to collection				1,600,000.00
	Preliminaries 1/7				
	<b><u>General attendance on nominated sub-contractors.The tenderer is to note that attendance has been measured elsewhere in the bills of quantities prices</u></b>				



	<b><u>A43: CONTRACTOR'S GENERAL COST ITEMS:</u></b>				
	<b><u>MECHANICAL PLANT</u></b>				
A	<b><u>All plant required for effective executive and completion of the project.This shall include but not limited to mobile and fixed cranes,excavators,earthmoving equipment, concrete mixers(mobile and fixed), standing and mobile scaffolds and other equipment and plant that the contractor shall allow necessary for keeping ground excavation free of general water for the entire period of substructure works as described in the description of works</u></b>				
	Fixed charge	1	item		
	Time related charge	1	item	700,000.00	700,000.00
	<b><u>A54: PROVISIONAL WORK</u></b>				
B	Allow a <b>PROVISIONAL SUM OF N300,000.00</b> for the payment of GEOPHYSICAL TEST to the Structural Engineer Consultant as directed by the Architect	1	Sum	300,000.00	300,000.00
	Carried to collection				1,000,000.00
	Preliminaries 1/8				
	<b><u>COLLECTIONS</u></b>				
	Preliminaries 1/1				
	Preliminaries 1/2				250,000.00

	Preliminaries 1/3	650,000.00
	Preliminaries 1/4	400,000.00
	Preliminaries 1/5	700,000.00
	Preliminaries 1/6	900,000.00
	Preliminaries 1/7	1,600,000.00
	Preliminaries 1/8	1,000,000.00
	Preliminaries Carried to Summary	5,500,000.00
	Preliminaries 1/9	

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

**BILL NO. 2**  
**MAIN BUILDING**

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

S/NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>SUBSTRUCTURE</b> <u>(ALL PROVISIONAL)</u>				
	<u>GROUNDWORK</u>				
	<u>(D20) EXCAVATION AND EARTHWORK</u>				
	Information				
	The work in this section comprises excavations, laterite and hardcore fillings, strip and pit excavation column bases, columns and other ancillary works up to and including ground floor slab				
	The Contractor is advised to examine the architectural and structural drawings required for this work.				
	The Contractor is advised to visit the site and acquaint himself on the existing				
	<u>PLANT</u>				
A	Allow for bringing to site and removing from site all plant required for works		Item		150,000.00
B	Allow for maintaining on site all plant required for excavation works.		Item		200,000.00
	<u>Excavating</u>				
C	Excavate oversite commencing from ground level average 150mm deep and deposit away from	1,392	m2	800.00	1,113,600.00
D	Excavate foundation trench exceeding 0.30m width, maximum depth not exceeding 2.00m starting at stripped level	425	m3	2,000.00	850,000.00
E	Ditto pit for column bases	97	m3	2,000.00	194,000.00
F	Excavate working space pits exceeding 0.30m width maximum depth 2.00m	745	m3	800.00	596,000.00
	To Collection				3,103,600.00

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

	<u>Disposal of water</u>				
A	Keep the surface of the site and excavation free of surface water		Item		70,000.00
B	Keep the surface of the site and excavation free of ground water		Item		50,000.00
	<u>Disposal of excavated material</u>				
C	Remove excavated material from site distance not exceeding 100 meters and deposit, spread and level where directed	274	m3	1,500.00	411,000.00
	<u>Filling to excavation</u>				
D	Backfill around trenches and pits well compacted	115	m3	1,200.00	138,000.00
	<u>Filling to make up levels</u>				
E	Imported laterite filling to make up levels under ground floor slab, deposited and compacted in 150mm thick layers	244	m3	6,000.00	1,464,000.00
F	200mm (average) bed of hardcore well compacted and consolidated in layers not exceeding 150mm thick and blinded with fine materials to receive concrete	263	m3	3,000.00	789,000.00
	<u>Surface Treatment</u>				
G	Prepare and apply one undercoat of "Herbicides" or other similar equal and approved anti-termite treatment solution to surfaces of excavations	1184	m3	650.00	769,600.00
H	Level and compact bottom of excavation to receive concrete.	1184	m3	550.00	651,200.00
	To Collection				4,342,800.00

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

	<u>IN-SITU CONCRETE</u>				
	<u>E10: MIXING/CASTING/CURING/IN-SITU</u>				
	<u>Plain insitu concrete ; mix 1:10,20 aggregate blinding</u>				
A	Blinding bed not exceeding 50mm thick	15	m3	36,000.00	540,000.00
B	Coloumn bases	30	m3	36,000.00	1,080,000.00
	<u>Plain in-situ concrete; B.S.5328, designed mix C20, 20 aggregate, minimum cement content 304 kg/m3; vibrated</u>				
C	Foundation bed 225mm thick	62	m3	55,000.00	3,410,000.00
	<u>Reinforced in-situ concrete; B.S.5328, designed mix C25, 18 aggregate, minimum cement content 304 kg/m3; vibrated</u>				
D	Column bases	18	m3	55,000.00	990,000.00
E	Ground beams	68	m3	55,000.00	3,740,000.00
F	Floor bed 150mm thick	76	m3	55,000.00	4,180,000.00
G	Steps	2	m3	55,000.00	110,000.00
	<u>(E20) FORMWORK FOR IN-SITU CONCRETE</u>				
	<u>Formwork and basic finish</u>				
H	Vertical sides of ground beams	437	m2	3,600.00	1,573,200.00
J	Sides of column bases 250-500mm high	85	m	3,000.00	255,000.00
K	Edges of ground floor slabs not exceeding 250mm deep	174	m	1,100.00	191,400.00
	<u>E30: REINFORCEMENT FOR INSITU CONCRETE</u>				
	<u>Reinforcement bars; B.S.4449, hot rolled deformed high yield steel (Provisional)</u>				
L	10-20mm diameter bar in column bases & ground beam	10	Tons	680,000.00	7,004,000.00
	To Collection				23,073,600.00

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

A	10 - 20mm diameter bar in columns	1	Tons	680,000.00	680,000.00
B	BRC mesh fabric reinforcement in slab to BS 4483 Ref A 142 weighting 2.22kg/m2 with and including 200mm and 300mm side and end laps(measured net)	692	m2	1,800.00	680,000.00
	<u>MASONRY</u>				
	<u>F10: BRICK/BLOCK WALLING</u>				
	<u>Superior quality hollow sandcrete blockwall bedded and jointed in cement sand mortar (1:6 ) with cavities filled solid with plain in-situ concrete (1:2:4)</u>				
C	Wall 225mm thick	878	m2	6,500.00	5,707,000.00
	P.C. SUM/PROVISIONAL SUMS/DAYWORKS A54: PROVISIONAL WORK				
	Allow the sum of =N= 300,000.00 (Three hundred thousand Naira only) for any additional works in ground work				
D			sum		300,000.00
					To Collection
					7,367,000.00
					2/4
					<u>COLLECTION</u>
					Page 2/1
					3,103,600.00
					Page 2/2
					4,342,800.00
					Page 2/3
					23,073,600.00
					Page 2/4
					7,367,000.00
	<u>SUBSTRUCTURE</u>				
	<u>Carried To Summary</u>				
					37,887,000.00

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

2/5

FRAMES AND UPPER FLOORS

IN-SITU CONCRETE

INFORMATION

The work in this section comprises

(i) Reinforced concrete suspended slab, columns beams and associated works

E10: MIXING/CASTING/CURING/IN-SITU

Reinforced in-situ concrete; B.S.5328, designed mix C25, 18 aggregate, minimum cement content 304 kg/m<sup>3</sup>; vibrated in:

A	Columns	24	m <sup>3</sup>	55,000.00	1,320,000.00
B	Floor beams	49	m <sup>3</sup>	55,000.00	2,695,000.00
C	Suspended slabs	98	m <sup>3</sup>	55,000.00	5,390,000.00
D	Entrance Canopy	4	m <sup>3</sup>	55,000.00	220,000.00

(E30) REINFORCEMENT FOR IN-SITU CONCRETE

Reinforcement bars; B.S.4449, hot rolled deformed high yield steel (Provisional)

E	10-20mm diameter bar in columns	3	Tons	680,000.00	2,040,000.00
F	10-25mm diameter bar in beams	2.7	Tons	680,000.00	1,836,000.00
G	12mm diameter bar in slab and entrance porch	5.21	Tons	680,000.00	3,542,800.00

(E20) FORMWORK FOR IN-SITU CONCRETE

Formwork and basic finish

H	Sides of columns	347	m <sup>2</sup>	3,600.00	1,249,200.00
J	Sides and soffit of floor beams	226	m <sup>2</sup>	3,600.00	813,600.00
K	Soffit of floor slab	637	m <sup>2</sup>	3,600.00	2,293,200.00
L	Edge of slab not exceeding 250mm high	143	m	1,100.00	157,300.00
M	Soffit of the entrance canopy	57	m <sup>2</sup>	3,600.00	205,200.00

FRAME AND UPPER FLOORS

Carried To Summary



**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

	2/6				21,762,300.00
	<u>STAIRCASES</u>				
	IN-SITU CONCRETE				
	<u>INFORMATION</u>				
	The work in this section comprises				
	(i) Reinforced concrete staircases and associated works.				
	(ii) The Contractor is however referred to Structural Engineer's drawings for details and scope of the work				
	<u>E10:MIXING/CASTING/CURING/IN-SITU</u>				
	<u>Reinforced in-situ concrete; B.S.5328, designed mix C25, 18 aggregate, minimum cement content 304 kg/m3; vibrated</u>				
A	Staircase, landing and Ramp	27	m3	55,000.00	1,485,000.00
	<u>(E30) REINFORCEMENT FOR IN-SITU CONCRETE</u>				
	<u>Reinforcement bars; B.S.4449, hot rolled deformed high yield steel (Provisional)</u>				
B	12-10mm diameter bar in staircase and landing	5.6	Tons	680,000.00	3,808,000.00
	<u>Formwork and basic finish</u>				
C	Sloping soffit of staircase and ramp	180	m2	3,600.00	648,000.00
D	Horizontal soffit of landing	136	m2	3,600.00	489,600.00
E	Outerstrings 300mm wide	131	m	3,600.00	471,600.00
F	Edge of risers 250mm high	97	m	1,100.00	106,700.00
	To Collection				7,008,900.00
	2/7				

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

	<u>M40: INSITU SURFACE FINISHES</u>				
	<u>High quality VITRIFIED ceramic tiles 400 x 400 x 10mm laid to an approved pattern; bedded and grouted in cement mortar (1:4) on:</u>				
A	Landing	17	m2	8,000.00	136,000.00
B	Treads 300mm wide	51	m	4,300.00	219,300.00
C	Risers 150mm high	51	m	4,300.00	219,300.00
D	Vitrified tile skirting 100mm x 25mm thick	88	m	4,300.00	378,400.00
	<u>Beds and Backings (M10 and M20 Generally)</u>				
	30mm screeded bed to receive ceramic tiles on:				
E	Landing	17	m2	3,500.00	59,500.00
F	Treads 300mm wide	51	m	2,800.00	142,800.00
G	Risers 150mm high	51	m	2,800.00	142,800.00
H	Vitrified tile skirting 100mm x 25mm thick	88	m	2,800.00	246,400.00
	<u>M20: 12mm smooth cement and sand [1:4] rendering on;</u>				
J	Soffit of Landing	38	m2	2,400.00	91,200.00
K	Sloping soffit of staircase and ramp	82	m2	2,400.00	196,800.00
L	Outer strings 300mm wide	82	m	1,250.00	102,500.00
	To Collection				1,935,000.00

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

<u>M60: PAINTING AND DECORATING</u>					
<u>Prepare and apply three coats of QUALITY Emulsion on rendered surfaces. M60/118</u>					
A	Soffit of Landing	38	m <sup>2</sup>	1,600.00	60,800.00
B	Sloping soffit of staircase and ramp	82	m <sup>2</sup>	1,600.00	131,200.00
C	Outer strings 300mm wide	82	m	890.00	72,980.00
<u>L30: The following in Staircase, handrailing and balustrading.</u>					
<u>Information</u>					
The work in this section comprises all steel pipe welded together to form a composite unit and well grouted into concrete or blockwork					
The Contractor is advised to examine the architectural drawings before pricing this aspect of work because the scope of work can be better understood therefrom.					
<u>Stair Balustrade and handrail</u>					
D	Steel pipe stair balustrading 1100mm high at 200mm centres with bottom grouted into concrete and top welded into a flat steel bar complete with approved steel top grooved to Architect's instructions along the length of the railing	261	m	25,000.00	6,525,000.00
To Collection					6,789,980.00
2/9					
<u>COLLECTION</u>					
Page 2/7					7,008,900.00
Page 2/8					1,935,000.00
Page 2/9					6,789,980.00
<u>STAIRCASES</u>					
<u>Carried To Summary</u>					15,733,880.00

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

2/9

ROOFING AND COVERING

IN-SITU CONCRETE

INFORMATION

The work in this section comprises

(i) Reinforced concrete roof beams, steel trusses

Dome

(ii) The Contractor is however referred to

Architect's drawings for details and scope of the work

E10:MIXING/CASTING/CURING/IN-SITU

Reinforced in-situ concrete; B.S.5328, designed mix C25, 18 aggregate, minimum cement content 304 kg/m<sup>3</sup>; vibrated

A	Roof beam	24	m <sup>3</sup>	55,000.00	1,320,000.00
B	Dome cap	19	m <sup>3</sup>	55,000.00	1,045,000.00
C	Transverse and standing seam	59	m <sup>3</sup>	55,000.00	3,245,000.00
D	230 mm suspended roof slab	51	m <sup>3</sup>	55,000.00	2,805,000.00

(E30) REINFORCEMENT FOR IN-SITU CONCRETE

Reinforcement bars; B.S.4449, hot rolled deformed high yield steel (Provisional)

E	10-20mm diameter bar in beams	2.7	Tons	680,000.00	1,836,000.00
F	10-16mm diameter bar in Dome cap	3.1	Tons	680,000.00	2,108,000.00
G	10-20mm diameter bar in Dome seam	3.8	Tons	680,000.00	2,584,000.00
H	10-20mm diameter bar in roof slab	2.8	Tons	680,000.00	1,904,000.00

To Collection

16,847,000.00

2/10

PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE

	<u>(E20) FORMWORK FOR IN-SITU CONCRETE</u>				
	<u>Formwork and basic finish</u>				
A	Sides and soffit of beams	256	m2	3,600.00	921,600.00
B	Sides and soffit of dome cap	879	m2	3,600.00	3,164,400.00
C	Sides of beams & dome seams	283	m2	3,600.00	1,018,800.00
D	Sides and soffit of roof slab	321	m2	3,600.00	1,155,600.00
	<b><u>G10: Structural steel framing</u></b>				
	<b><i>Framing, fabrication of structural steel members</i></b>				
E	150 x 50 x 2.50mm Z-Purlins	3.520	t	600,000.00	2,112,000.00
F	75 x75 x 5mm thick double angle iron top/bot	3.740	t	600,000.00	2,244,000.00
G	60 x 60 x 5mm thick double angle iron bracing	3.730	t	600,000.00	2,238,000.00
H	16mm diametre high tensile steel bracings	1.798	t	250,000.00	449,500.00
J	230 x 180x 6mm base plate	24	Nr	7,000.00	168,000.00
K	125 x 75 x 6mm bolted cleats	264	Nr	1,250.00	330,000.00
L	Holding down assemblies, comprising 16mm diametre, 300mm long bolt including nut/was	120	Nr	2,000.00	240,000.00
M	Holding down assemblies, comprising 12mm diametre black bolt including nut/washer	528	Nr	800.00	422,400.00
	<b><i>Framing, erection of structural steel members</i></b>				
N	Permanent erection on site	12.788	t	80,000.00	1,023,040.00
	To Collection				15,487,340.00

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

	2/11				
	<b><u>PARAPET</u></b>				
A	230mm thick R.C parapet wall to Engineer' specification	84	m2	5,500.00	462,000.00
B	50mm thick concrete coping tapered to fall and throating	110	m2	4,000.00	440,000.00
	<b><u>FELTING</u></b>				
	<u>Single layer 3 or 4mm thick scudoplast waterproofing membrane as roof covering obtained from STRUCTEC Limited or other approved manufacturer touch bonded at cement and sand floated bed (Measured seperately) primed with MC1 primer in all accordance with manufacturer's printed instruction</u>				
C	water proof memebrane	320	m2	8,000.00	2,560,000.00
D	gloss 200mm center to center round the roof facial	280	m	3,400.00	952,000.00
	To Collection				4,414,000.00
	<b><u>COLLECTION</u></b>				
	Page 2/10				16,847,000.00
	Page 2/11				15,487,340.00
	Page 2/12				4,414,000.00
	<b><u>ROOFING AND COVERING</u></b>				
	<u>Carried To Summary</u>				36,748,340.00

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

2/12

EXTERNAL AND INTERNAL WALLS

IN-SITU CONCRETE

INFORMATION

Nature and location of the work

The work in this section comprises

(i) The erection of hollow sandrete blockwalls and associated works.

(ii) The Contractor is however referred to Architect's and Structural Engineer's drawings for details and scope of the work

E10: MIXING/CASTING/CURING/IN-SITU

Reinforced in-situ concrete; B.S.5328, designed mix C25, 18 aggregate, minimum cement content 304 kg/m<sup>3</sup>; vibrated

A	Lintels	14	m <sup>3</sup>	55,000.00	770,000.00
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(E30) REINFORCEMENT FOR IN-SITU CONCRETE

Reinforcement bars; B.S.4449, hot rolled deformed high yield steel (Provisional)

B	16mm -10mm diameter bar in lintel	2.8	Tons	680,000.00	1,904,000.00
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(E20) FORMWORK FOR IN-SITU CONCRETE

Formwork and basic finish

C	Sides and soffit of lintel	175	m <sup>2</sup>	3,600.00	630,000.00
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To Collection

3,304,000.00

2/13

PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE

MASONRY

F10: BRICK/BLOCK WALLING

Superior quality hollow sandcrete blockwall  
bedded and jointed in cement sand mortar (1:6 )

A	Wall 225mm thick	1,656	m2	5,500.00	9,108,000.00
B	Wall 150mm thick	286	m2	4,900.00	1,401,400.00

To Collection 10,509,400.00

COLLECTION

Page 2/13 3,304,000.00

Page 2/14 10,509,400.00

EXTERNAL AND INTERNAL WALLS

Carried To Summary 13,813,400.00



**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

<u>ALUMINIUM WINDOWS</u>					
<u>INFORMATION</u>					
<u>Nature and location of the work</u>					
The work in this section comprises					
(i) Aluminium windows and associated works					
<u>General information applicable to all windows</u>					
<b><u>White coated aluminium framed</u></b>					
<b><u>NIGALEX sliding window complete with</u></b>					
<b><u>frame and sub-frame used with 2 piece</u></b>					
<b><u>9mm thick clear fixed glass panel, and 2 pieces of sliding</u></b>					
<b><u>carrier lever handles and all fixing</u></b>					
<b><u>accessories and locks from approved manufacturer as</u></b>					
<b><u>specified by the Architect. Each window openings</u></b>					
<b><u>also with sliding mosquito net</u></b>					
A	Size 2000mm x 1200mm high	10	Nr	140,500.00	1,405,000.00
B	Size 2700 x 1200mm high	12	Nr	167,500.00	2,010,000.00
C	Size 900 x 1200mm high	4	Nr	126,700.00	506,800.00
D	Size 1800 x 1200mm high	4	Nr	159,000.00	636,000.00
E	Size 900 x 600mm high	8	Nr	114,000.00	912,000.00
F	Size 600 x 600mm high	12	Nr	61,000.00	732,000.00
G	Size 2400 x 1200mm high	4	Nr	153,000.00	612,000.00
H	Size 3000 x 1200mm high	3	Nr	173,400.00	520,200.00
<b><u>Curtain walling</u></b>					
J	Curtain walling externally	137	m2	25,000.00	3,425,000.00
To Collection					10,759,000.00

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

2/15

ANTI BUGLAR GRILLES

Supply and fix approved pattern 25mm hollow square pipe welded as vertical and horizontal members at 100mm centres, including 25mm hollow square pipe frame and fixed to blockor concrete wall to Architect's specified details

A	Size 2000mm x 1200mm high	10	Nr	66,750.00	667,500.00
B	Size 2700 x 1200mm high	12	Nr	74,800.00	897,600.00
C	Size 900 x 1200mm high	4	Nr	51,600.00	206,400.00
D	Size 1800 x 1200mm high	4	Nr	59,200.00	236,800.00
E	Size 900 x 600mm high	8	Nr	30,800.00	246,400.00
F	Size 600 x 600mm high	12	Nr	25,500.00	306,000.00
G	Size 2400 x 1200mm high	4	Nr	69,600.00	278,400.00
H	Size 3000 x 1200mm high	3	Nr	92,000.00	276,000.00

To Collection

3,115,100.00

COLLECTION

Page 2/15

10,759,000.00

Page 2/16

3,115,100.00

ALUMINIUM WINDOWS

Carried To Summary

13,874,100.00

2/16

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

DOORS AND IRONMONGERY

INFORMATION

Nature and location of the work

The work in this section comprises  
(i) Hardwood timber doors, Aluminium doors, ironmongery and associated works.

L20 Doors /Shutters/Hatches

High quality 45mm thick painted hardcore DOUBLE swing door covered with 6mm thick veneer plywood with 22mm x 38mm hardcore complete with frame and set of manilux ironmongery with washers according to BS7352-6. Rates for doors shall be deemed to include same

A	Size 3000 x 2100mm high	4	Nr	380,000.00	1,520,000.00
B	Size 1810 x 2100mm high	9	Nr	305,000.00	2,745,000.00
<p><u>High quality 45mm thick painted hardcore SINGLE swing FLUSH door covered on both sides with 6mm thick veneer plywood with 22mm x 38mm hardcore complete with frame and set of manilux ironmongery with washers according to BS7352-6. Rates for doors shall be deemed to include same</u></p>					
C	Size 1500 x 2100mm high	3	Nr	150,000.00	450,000.00
D	Size 900 x 2100mm high	19	Nr	120,000.00	2,280,000.00
E	Size 750 x 2100mm high	12	Nr	90,000.00	1,080,000.00
F	Size 750 x 1800mm high	2	Nr	90,000.00	180,000.00
To Collection					8,255,000.00

PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE

<p><u>High quality 45mm thick ALUMINIUM DOUBLE swing door covered with 2286mm x 342mm glass panel complete with frame and set of manilux ironmongery with washers according to BS7352-6. Rates for doors shall be deemed to include same</u></p>	1	Nr	480,000.00	480,000.00
A Size 3770 x 3000mm high				
To Collection				480,000.00
<u>COLLECTION</u>				
Page 2/17				8,255,000.00
Page 2/18				480,000.00
<p><u>DOORS AND IRONMONGERY Carried To Summary</u></p>				8,735,000.00
2/18				

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

<u>WALL FINISHINGS</u>					
<u>Internally and Externally</u>					
<u>In situ Finishings</u>					
<u>M20: 12mm smooth cement and sand [1:4] render as</u>					
<u>on;</u>					
A	Walls	3,312	m2	2,400.00	7,948,800.00
B	Column	347	m2	2,400.00	832,800.00
C	Beams	283	m2	2,400.00	679,200.00
D	Surface exceeding 200mm but not exceeding 300mm	727	m	1,650.00	1,199,550.00
E	canopy entrance	24	m2	2,400.00	57,600.00
F	Edge of the canopy entrance	25	m	1,650.00	41,250.00
 <u>M60: PAINTING AND DECORATING</u>					
<u>Prepare and apply three coats High quality MEYER</u>					
<u>Emulsion on rendered surfaces.</u>					
G	Walls	2,056	m2	1,600.00	3,289,600.00
H	Column	347	m2	1,600.00	555,200.00
J	Beams	283	m2	1,600.00	452,800.00
K	canopy entrance	24	m2	1,600.00	38,400.00
L	Edge of the canopy entrance	25	m	890.00	22,250.00
M	Surface exceeding 200mm but not exceeding	727	m	890.00	647,030.00
To Collection					15,764,480.00

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

	<u>High quality vitrified tiles 300 x 150 x 6mm laid to an approved pattern; bedded and grouted in cement mortar (1:4) on:</u>				
A	Walls (Toilet)	160	m2	8,000.00	1,280,000.00
	<u>Beds and Backings (M10 and M20 Generally)</u> 12mm screeded bed to receive ceramic tiles on:				
B	Walls	160	m2	2,300.00	368,000.00
	<b><u>ALUMINIUM CLADDINGS</u></b>				
C	Perforated Aluminium composite cladding including rail anchor and rails with fixed bracket and all required accessories	1064	m2	26,615.00	28,318,360.00
	To Collection				29,966,360.00
	COLLECTION				
	PG/ 19				15,764,480.00
	PG/ 20				29,966,360.00
	<u>WALL FINISHINGS</u> <u>Carried To Summary</u>				45,730,840.00
	2/20				

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

FLOOR FINISHINGS

SURFACE FINISHES

INFORMATION

Nature and location of the work

The work in this section comprises  
 (i) Floor finishings and other associated works  
 (ii) The Contractor is however referred to various Architect's location drawings and schedule of finishing in relation to this section for the nature and content of the work to be executed.

M40: STONE/CONCRETE/QUARRY/CERAMIC TILING/MOSAIC

High quality VITRIFIED ceramic tiles 400 x 400 x 10mm laid to an approved pattern; bedded and grouted in cement mortar (1:4) on:

A	Floors generally	1,557	m2	8,000.00	12,456,000.00
B	Skirting 100mm thick	939	m	2,800.00	2,629,200.00

Beds and Backings (M10 and M20 Generally)  
 30mm screeded bed to receive ceramic tiles on:

C	Floors	1,557	m2	3,500.00	5,449,500.00
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High quality vitrified tiles 300 x 150 x 6mm laid to an approved pattern; bedded and grouted in cement mortar (1:4) on:

D	Floor (Toilet)	230	m2	8,000.00	1,840,000.00
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Beds and Backings (M10 and M20 Generally)  
 12mm screeded bed to receive ceramic tiles on:

E	Walls	366	m2	2,300.00	841,800.00
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FLOOR FINISHINGS

Carried To Summary 23,216,500.00

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

	2/21				
	<u>CEILING FINISHES</u>				
	<u>Internally and Externally</u>				
	<u>K10: FLEXIBLE SHEET FINISHINGS</u>				
	<u>Insitu Finishings</u>				
	<u>M20: 12mm smooth cement and sand [1:4] render as on;</u>				
A	Soffits of suspended slab	637	m2	2,300.00	1,465,100.00
	<u>M60: PAINTING AND DECORATING</u>				
	<u>Prepare and apply three coats High quality MEYER Emulsion on rendered surfaces.</u>				
B	Soffits of suspended slab	637	m2	1,600.00	1,019,200.00
	<u>CEILING FINISHINGS</u>				
	<u>Carried To Summary</u>				2,484,300.00
	<u>SUMMARY</u>				
	WALL FINISHINGS				45,730,840.00
	FLOOR FINISHINGS				23,216,500.00
	CEILING FINISHINGS				2,484,300.00
	WALL, FLOOR & CEILING FINISHINGS TO SUMMARY				71,431,640.00
	2/22				



**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

	<b><u>ELEMENT N. 10 MECHANICAL INSTALLATIONS</u></b>				
	<b><u>P30: Trenches/Pipeways/Pits for buried Engineering services</u></b>				
	Excavating trenches for services 500mm nominal size; 500mm average depth from 150mm below existing ground level; backfilling with selected excavated materials; disposal of surplus excavated materials				
A		218	m	800.00	174,400.00
	<b><u>Y10: Pipelines</u></b>				
	<b><i>Straight "Tiger" UPVC pipe to BS 425 in chases/ trenches/floor screeds</i></b>				
B	50mm Diameter	146	m	1,900.00	277,400.00
C	32mm Diameter	162	m	1,880.00	304,560.00
D	25mm Diameter	247	m	1,750.00	432,250.00
E	13mm Diameter	168	m	1,700.00	285,600.00
	<b><i>Extra over "Tiger" UPVC pipes; fittings, not exceeding 65mm diameter</i></b>				
F	20mm diameter gate valves	89	Nr	1,700.00	151,300.00
G	50mm diameter elbow	74	Nr	1,680.00	124,320.00
H	32 x 25mm diameter reducer	49	Nr	1,850.00	90,650.00
J	25mm diameter elbows	68	Nr	1,760.00	119,680.00
K	25mm diameter equal tees	67	Nr	1,880.00	125,960.00
L	25 x 15mm diameter reducer	62	Nr	1,850.00	114,700.00
M	25mm diameter union connector	71	Nr	2,150.00	152,650.00
	<b>TO COLLECTON</b>				2,353,470.00

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

		2/23			
A	20mm diametre elbows	98	Nr	700.00	68,600.00
B	20mm diametre equal tees	87	Nr	550.00	47,850.00
C	20mm diametre flexible connector	70	Nr	1,200.00	84,000.00
D	20mm diametre union connector	80	Nr	660.00	52,800.00
E	20mm diametre angle valve	78	Nr	500.00	39,000.00
<b><i>Straight "Niger" UPVC waste/storm water pipes in chases/trenches/floor screeds</i></b>					
F	100mm Diameter	278	m	800.00	222,400.00
<b><i>Extra over "Niger" UPVC pipes; fittings, exceeding 65mm diameter</i></b>					
G	100mm diametre UPVC bend	40	Nr	755.00	30,200.00
H	100mm diametre UPVC pan connector	20	Nr	900.00	18,000.00
J	100mm diametre UPVC tee	26	Nr	755.00	19,630.00
K	100mm diametre UPVC vent cowl	8	Nr	800.00	6,400.00
<b><u>Y11: Pipework ancillaries</u></b>					
L	100mm diametre plastic adjustable Fulbora of vertical spigot rain outlet with hook bolt damping device and grating set grout to concrete floor and jointing to rain water pipe	13	Nr	14,500.00	188,500.00
<b><u>Y11: Pipework ancillaries</u></b>					
M	Traps; 50mm diameter UPVC floor drains grouted to floor bed	36	Nr	1,500.00	54,000.00
<b>TO COLLECTON</b>					<b>831,380.00</b>

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

2/24

**Y25: General pipeline equipment**

**Equipment; supply, install and connect up pipeline equipment complete with all necessary accessories for complete installation**

A	White vitreous china 'Twyford' or other equal and approved WC comprising 9 litres overhead cistern tank with plastic fittings and chrome plated flushed handle with chain and PVC flush pipe with coupling.	12	Nr	60,000.00	720,000.00
B	'Twyford' wash hand basin (Oval/Rectangular) complete with pedestral and accessories screwed to wall	12	Nr	40,000.00	480,000.00
C	Urinals	12	Nr	40,000.00	480,000.00
D	Vortic" automatic hand drier complete with accessories	4	Nr	35,500.00	142,000.00
E	50mm floor drains	20	Nr	2,500.00	50,000.00
<b><u>Toilet Accessories</u></b>					
F	Semi recessed stainless steel 150 x 150mm toilet roll holder	18	Nr	3,000.00	54,000.00
G	Stainless steel Soap dish	12	Nr	5,500.00	66,000.00
H	Stainless steel towel holder	12	Nr	8,500.00	102,000.00
J	"Pikington" Toilet Wall Mirror size 600 x 900mm high	18	Nr	3,500.00	63,000.00
K	Wall mounted Xpeliar or equal approved extractor Fan 250m3 per hour air extract capacity	24	Nr	28,500.00	684,000.00
<b>TO COLLECTON</b>					<b>2,841,000.00</b>

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

	2/25				
	<b><u>S70: Gas fire fighting</u></b>				
A	9kg FE-ABC dry chemical powder "Angus" fire extinguisher to BS 1382 complete with wall bracket mounted on wall	9	Nr	20,600.00	185,400.00
	<b><u>Ventilation and Airconditioning System</u></b>				
	<b><u>U60: Air-conditioning Unit</u></b>				
B	9,000 BTU/H split unit high wall mounted air-conditioners complete with indoor blower unit, outdoor condensing unit, adjustable directional discharge and deflections, fully protected against voltage fluctuation of quite and drip free operation , supply and return reffridgerant copper pipping with associated drainage hose etc. (LG or approved equal)	8	Nr	380,000.00	3,040,000.00
C	18,000 BTU/H split unit high wall mounted air-conditioners complete with indoor blower unit, outdoor condensing unit, adjustable directional discharge and deflections, fully protected against voltage fluctuation of quite and drip free operation , supply and return reffridgerant copper pipping with associated drainage hose etc. (LG or approved equal)	3	Nr	510,000.00	1,530,000.00
D	24,000 BTU/H split unit high wall mounted air-conditioners complete with indoor blower unit, outdoor condensing unit, adjustable directional discharge and deflections, fully protected against voltage fluctuation of quite and drip free operation , supply and return reffridgerant copper pipping with associated drainage hose etc. (LG or approved equal)	22	Nr	670,000.00	14,740,000.00
	<b>TO COLLECTON</b>				<b>19,495,400.00</b>
	2/26				

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

**AIR-CONDITIONING SYSTEMS**

**Complete with all installation accessories**

**Refrigerant Pipes**

Annealed copper tubes in coils to BS 2871 Table Y for connection by means of autogenous welding

A	12mm Internal Diameter	84	m	3,700.00	310,800.00
B	6mm Internal Diameter	61	m	3,300.00	201,300.00

**Accessories**

C	12mm Internal Diameter Insulation Tube (16mm Thick)	84	m	900.00	75,600.00
D	10mm Internal Diameter Insulation Tube (9mm Thick)	84	m	750.00	63,000.00
E	2.5mmsq. 3-core PVC cable	84	m	1,360.00	114,240.00
F	75mm Diameter PVC pipe Sleeve	84	m	1,360.00	114,240.00
G	75mm PVC Bend (135 degree)	56	m	1,720.00	96,320.00

**Condensate Pipework**

H	13mm Diameter PVC pipe	84	m	1,060.00	89,040.00
J	13mm PVC Bend	56	Nr	600.00	33,600.00
K	25 x 25 x 25mm Equal Tee	32	Nr	550.00	17,600.00
L	Builders work which includes chisling		Lot		150,000.00

**TO COLLECTION**

**1,265,740.00**

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

2/27

**Builder's works**

A	Allow a provisional sum of N150,000.00 for builder's works in connection with all works this section			Sum	150,000.00
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**GROUND/OVERHEAD WATER TANK**

B	Ground BRAITHWAITE steel tank 4000 x 2000 x 1000mm deep 8,000ltrs capacity	1		Nr	8,500,000.00	8,500,000.00
C	0.5HP @1.1ltrs/sec Cold and Hot water booster pump complete with float switch, electrical cables, valves, pressure vessel and all installation accessories	2		Nr	350,000.00	700,000.00
D	Elevated BRAITHWAITE steel tank 2000 x 2000 x 1000mm deep 4,000ltrs capacity on 10m stanchion	1		Nr	13,200,000.00	13,200,000.00
E	Allow for Builders works in connection with this installation			Item		200,000.00

					<b>TO COLLECTON</b>	22,750,000.00
					<b>COLLECTION</b>	

						2,353,470.00
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						831,380.00
--	--	--	--	--	--	------------

						2,841,000.00
--	--	--	--	--	--	--------------

						19,495,400.00
--	--	--	--	--	--	---------------

						1,265,740.00
--	--	--	--	--	--	--------------

						22,750,000.00
--	--	--	--	--	--	---------------

						<b>MECHANICAL INSTALLATION CARRIED TO SUMMARY</b>
						49,536,990.00

2/28

**ELEMENT N. 11 ELECTRICAL  
INSTALLATIONS**

**SWITCHES**

**Accessories**

**Accessories; Lighting switches; as specified  
rate to include galvanised steel knock-out  
boxes set in mortices in wall;**

**Supply and fix the following flush switches**

A	5A, 1 Gang, 1 way SP switch	71	Nr	1,300.00	92,300.00
B	5A, 2 Gang, 1 way SP switch	54	Nr	1,350.00	72,900.00
C	5A, 1 Gang, 2 ways SP switch	36	Nr	1,400.00	50,400.00
D	5A, 3 Gang, 1 Way SP switch	54	Nr	1,700.00	91,800.00

**SWITCHES TO SUMMARY**

**307,400.00**

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

	<b><u>EQUIPMENT</u></b>				
	<b><u>Main Isolating switch (ABB)</u></b>				
	<b><u>Distribution Boards (ABB)</u></b>				
	30 A, 6 way TP &N MCB distrubuition board c/w 100A isolating switch, comprising 3nr 10A, 7nr 20A, 2nr 30A, 1 nr 45A and 4 nr spare	1	Nr	120,000.00	120,000.00
A					
B	45A TP&N ELCB	4	Nr	100,000.00	400,000.00
C	150A 4P&N Low Voltage panel with 150A MCCB complying to Engineer's details	1	Nr	80,000.00	80,000.00
	<b><u>Y61: HV/LV cable and wiring</u></b>				
	Allow a provisional sum of N5,500,000.00 for supply and installation of Nigerian copper cable drawn into conduit or ducts or laid down into trunking or laid in trenches including cable loops, terminations, glands and all other accessories		Sum		5,500,000.00
D					
	Conduit and cable trunking as may be applicable wth power layout design drawing, rate include circular boxes, steel knock-out boxes, screws, bushings, lock-nuts etc		Sum		1,000,000.00
E					
	<b>EQUIPMENTS TO SUMMARY</b>				7,100,000.00



**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

**LIGHTENING AND POWER POINTS**

**Accessories for general power installations.**

**Accessories; Lighting switches as specifies rate to include gavalnized steel knock-out boxes ste in mortces in wall;**

A	12-40W recessed panel light fitting	151	Nr	6,000.00	906,000.00
B	12-40W surface panel light fitting	53	Nr	8,000.00	424,000.00
C	40w compact LED recessed luminaries complete	22	Nr	5,800.00	127,600.00
D	Wall mounted external light corrosion resistant diecast Aluminium body and frame IP66,100W metal handle lamp medium beam, similar to SBP TYCO 20M	12	Nr	12,000.00	144,000.00
E	2W staircase lights	6	Nr	12,500.00	75,000.00
F	125W External lighting on 3M pole stand	13	Nr	27,000.00	351,000.00
<b>TO COLLECTION</b>					<b>2,027,600.00</b>

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

<b><u>POWER POINTS (CONT'D)</u></b>					
A	13A, 3-gang 1 way SP switched socket outlet	50	Nr	1,200.00	60,000.00
B	13A, 2-gang SP 220V switched socket outlet wall recessed @ low level (British)	85	Nr	1,200.00	102,000.00
C	15A, DP 220V Airconditioner unswitch socket outlet	33	Nr	2,500.00	82,500.00
D	Television socket outlet	28	Nr	2,500.00	70,000.00
E	Telephone Outlets	28	Nr	2,500.00	70,000.00
<b>TO COLLECTION</b>					<b>384,500.00</b>
<b>COLLECTION</b>					
PG/ 31					2,027,600.00
PG/ 32					384,500.00
<b>POWER POINT TO SUMMARY</b>					<b>2,412,100.00</b>
2/32					

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

A	<b><u>EARTHING/ LIGHTING PROTECTION</u></b>				
I	1800mm x 4mm diameter copper earth rod	1	No	35,000.00	35,000.00
II	Inspection chambers for main earthing and LPS; lightweight inspection pit PT205	1	No	23,000.00	23,000.00
III	900mm x 900mm x 6mm copper eath bar complete with disconnection link for the lightening protection system for extraneous conductors	1	No	30,000.00	30,000.00
IV	Bond all extraneous conductors such as water pipes, handrails, air conditioning units, metal clading, DSTV Dish, metal roof in the vicinity of the lightening Protection System to the LPS earthing system using 1 core x 16mm <sup>2</sup> PVC insulated copper cable and bond all extraneous conductors, such as diesel tank, etc in the vicinity of the main Earthing Network to the Men using 1core x 16mm <sup>2</sup> PVC insulated copper cable		Sum		350,000.00
V	Miscellaneous and earthing accessories to include couplers, clamps, earth wells, etc all to achive $R \leq 1$ Ohms		Lot		200,000.00
B	<b><u>LIGHTENING PROTECTION SYSTEM</u></b>				
I	Lightening protection system to include oblong joint, pvc sassles/clip, galvanized clips, testing and accessories		Lot		200,000.00
	<b>EARTHING TO SUMMARY</b>				<b>838,000.00</b>

PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE

**SUMMARY**

SWITCHES	307,400.00
EQUIPMENT	7,100,000.00
POWER POINTS	2,412,100.00
EARTHING	838,000.00
<b>ELECTRICAL INSTALLATION CARRIED TO SUMMARY</b>	<b>10,657,500.00</b>

**ELEMENT N. 12 GENERAL FIXTURES/  
FURNISHING/ EQUIPMENT**

**WOODWORK**

**Supply and Installation veneer covered  
3.25" MDF with chrome Hollow pipe rails  
wardrobe as specified in drawing/as  
directed by Architect**

A Laboratory cabinets including chairs/stools  
and sink in accordance to Architects  
direction

Sum

17,500,000.00

**FIXTURES AND FITTINGS TO SUMMARY**

17,500,000.00

PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE

SUMMARY

A	SUBSTRUCTURE	37,887,000.00
B	FRAMES	21,762,300.00
C	STAIRCASES	15,733,880.00
D	WALLS	13,813,400.00
E	ROOF AND ROOF COVERING	36,748,340.00
F	WINDOWS	13,874,100.00
G	DOORS	8,735,000.00
H	FLOOR, WALL AND CEILING FINISHING	71,431,640.00
J	MECHANICAL INSTALLATION	49,536,990.00
K	ELECTRICAL INSTALLATION	10,657,500.00
L	FIXTURES AND FITTINGS	17,500,000.00
	TOTAL	<u>297,680,150.00</u>

**PROPOSED ACE BUILDING AT UNIVERSITY OF LAGOS, AKOKA, YABA, LAGOS STATE**

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**BILL NO 3**  
**EXTERNAL WORKS**



S/NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SEWAGE</u>				
A	Manhole size 1200 x1200 x 1000mm deep internally consisting of 150mm reinforced concrete(1:2:4-19mm aggregate bottom and sides with and including B.R.C Ref.65 and 75mm precast concrete cover slab size 1050 x 1050 reinforced with and including benching up to e.m.l and form all main and branch channel including all excavation	4	Nr	35,000.00	140,000.00
B	Soakaway pit size 2500 x 2500 x 20000mm deep, sides consisting of 230mm sandcrete hollow blockwalling laid honeycomb and 150mm reinforced concrete (1:2:4-20mm aggregate) cover inside filled with bronken stone and rubble 75-12mm diameter including all necessary reinforcement, formwork and excavation etc	1	Nr	200,000.00	200,000.00
C	Septic tank size 3600 x 2400 x 1800mm deep internally of 150mm reinforced concrete (1:2:4-20mm aggregate sides and 225mm reinforced concrete bottom laid to fall with 50mm baffle board reinforced with and including 10 guage e.m.l. 150mm reinforced concrete cover slab including all necessary reinforcement, formwork and excavation etc	1	Nr	300,000.00	300,000.00
	To Collection				640,000.00

INTERLOCKING PAVING AND KERBS

A	Excavate shallow trench for kerb foundations, part backfill and compact, remove surplus excavated materials from site.	170	m	1,000.00	170,000.00
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B	75 x 225mm PRECAST concrete half battered KERB bedded and pointed in cement and sand mortar on and including 225 x 100mm plain insitu concrete foundation, haunched both sides 100mm high with similar concrete including any necessary formwork.	170	m	5,000.00	850,000.00
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C	Rectangular INTERLOCKING paving stones laid in CARPARK with precast concrete kerb	1,632	m2	6,000.00	9,792,000.00
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GRASSING

D	Import and Spread loamy soil for grassing with Plant, Culture and Trim PORT HARCOURT GRASS	825	m2	1,500.00	1,237,500.00
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	To Collection				12,049,500.00
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SUMMARY

	PG/ 01				640,000.00
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	PG/ 02				12,049,500.00
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	EXTERNAL WORKS Carried To General Summary			=N=	12,689,500.00
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3/2

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**BILL NO 4**  
**ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)**

S/NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP) IMPLEMENTATION</u>				
	<u>ESMP Expectation Items / Responsibilities</u>				
A	<b>Mitigation;</b> Contractor/ Supervising Consultant/PCU Safeguards Unit		item		5,094,200.00
B	<b>Monitoring;</b> PCU M& E Unit/ Safeguards Unit		item		500,000.00
C	<b>Capacity Building;</b> Lead Contractor/ Engineering Consultant/ HSE-OHS Consultant/SPCU Safeguards Unit		item		500,000.00
	<b>Grievance Redress Mechanism;</b> PCU Social Safeguards Officer		item		250,000.00
C	<b>Consultations;</b> PCU Social Safeguards Unit		item		250,000.00
C	<b>Disclosure;</b> PCU/State MoEnv. /FMEnv/W- Bank		item		1,000,000.00
	<b>Sub-Total</b>				7,594,200.00
C	<b>Contingency (10% of Sub-total)</b>				759,420.00
	ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP) IMPLEMENTATION Carried To General Summary			=N=	8,353,620.00

	PRELIMINARIES			5,500,000.00
	MAIN BUILDING			297,680,150.00
	EXTERNAL WORKS			12,689,500.00
	ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)			8,353,620.00
		SUB-TOTAL		324,223,270.00
	ADD/ CONTIGENCIES(To be omitted in part or full if not utilised)			6,000,000.00
		TOTAL		330,223,270.00
	VAT 7.5%			24,766,745.25
	GRAND TOTAL			354,990,015.25

		lgt	wdt		
Topsoil Excavation	2	26.83	22.23		<b>1192.8618</b>
Ditto col base					
trench excavation	0.7	366.24	1.5		<b>384.552</b>
working space					
ditto col base	8	5.6	0.6	2	53.76
	8	4.8	0.6	2	46.08
					<b>99.84</b>
Blinding	1	366.24	0.05	0.68	12.45216
DPC	1	22.83	22.23	0.15	76.12664
level and compact					
col bases	8	1.4	1.4		15.68
	8	1.2	1.2		11.52
					<b>27.2</b>
trenches	1	384.552	0.7		<b>269.1864</b>
surface treatment					
	8	1.4	1.4		15.68
	8	1.2	1.2		11.52
	8	5.6	1.4		62.72
	8	4.8	1.4		53.76
	1	384.55	0.7		269.185
	2	384.55	1.2		922.92
					<b>1335.785</b>
Conc. In fdn trench	1	384.552	0.7	0.23	<b>61.91287</b>

conc.in coln bases

blinding to coln base

blinding to trench

0.68	384.55	0.05	<b>13.0747</b>
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reinforced insiu. conc

0.15	26.83	22.23	89.464635
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Blkwrk in fdn

1	366.24	1.2	<b>439.488</b>
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Hardcore/laterite filling

Lab	4	8.77	9.77	0.45	154.2292
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offices	2	5.01	3.1	0.45	13.9779
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lab attendant1	2	2.31	2.47	0.45	5.13513
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lab attendant2	2	1.81	1.83	0.45	2.98107
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store 1	2	2.47	1.85	0.45	4.11255
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store 2	2	1.35	1.81	0.45	2.19915
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male toilet & female toilet	2	3.76	5.01	0.45	16.95384
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6	1.12	2.29	0.45	6.92496
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lobby

1	26.83	3.77	0.45	45.5171
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1	4	3.5	0.45	6.3
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2	4.43	1.21	0.45	4.82427
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**263.1552**



Lintel					
D1	4	3.4	0.23	0.23	0.71944
D2	9	2.27	0.232	0.23	1.090145
D3&7	19	1.36	0.23	0.23	1.366936
D4&5	14	1.21	0.23	0.23	0.896126
D6	3	1.96	0.23	0.23	0.311052
D8	1	4.23	0.23	0.23	0.223767
					4.607466
Window	10	2.46	0.23	0.23	1.30134
	12	3.16	0.23	0.23	2.005968
	12	1.36	0.23	0.23	0.863328
	4	2.26	0.23	0.23	0.478216
	12	1.06	0.23	0.23	0.672888
	4	2.86	0.23	0.23	0.605176
	3	3.46	0.23	0.23	0.549102
					6.476018
suspended slab 150mm		26.83	22.23	0.15	89.46464
conc. In flat roof		27.57	23.83	0.23	151.1084
Ddt void		4.83	5.4	0.23	5.99886
					<b>145.1096</b>
staircases	18	2	0.3	0.15	1.62

Blkwork in superstructure





11.08348