

**PROPOSED L.P.G PLANT**  
FOR  
**IBILE OIL & GAS CORPORATION**  
ALONG  
EBUTE-IGBAJO ROAD, MABADEJE STREET  
IKORODU LOCAL GOVERNMENT AREA  
LAGOS STATE.

**BILLS OF QUANTITIES**

AUGUST, 2020

**BILL NR 2:**

**ADMINISTRATIVE BUILDING**

S/N	DESCRIPTION	QTY	UNIT	AMOUNT
	<b>PROPOSED L.P.G PLANT FOR IBILE OIL AND GAS CORPORATION ALONG EBUTE-IGBAJO ROAD, MABADEJE STREET, IKORODU LOCAL GOVERNMENT AUTHORITY, LAGOS STATE.</b>			
	<b>BILL NR 2: ADMINISTRATIVE BUILDING</b>			
	<b>ELEMENT No. 1</b>			
	<b>SUB-STRUCTURAL WORKS</b>			
	<b>EXCAVATION AND EARTHWORK</b>			
A	Excavate top vegetable soil average 150mm deep.	62	m2	-
B	Excavate trench to receive foundation concrete commencing from ground level and not exceeding 1.00m deep	25	m3	-
C	Level and compact bottom of excavation to receive blinding.	30	m2	-
D	Sharp sand filling in making up levels well compacted to receive concrete	22	m3	-
E	150mm hand pick hard core spread above earth filling and well compacted	56	m2	-
	<b>CONCRETE WORK</b>			
F	50mm blinding (1:10) in foundation.	29	m2	-
G	Ditto under bed.	55	m2	-
	<u>Plain in-situ concrete developing minimum works strength of 20N/mm2 at 28 days filled into formwork and vibrated in:-</u>			
H	Foundation	7	m3	-
	<u>Reinforced in-situ concrete developing minimum works strength of 20N/mm2 at 28 days filled into formwork and vibrated in:-</u>			
J	150mm oversite concrete slab	9	m3	-
	<b>REINFORCEMENT (PROVISIONAL )</b>			
K	Fabric mesh A142 in 150mm oversite concrete slab	56	m2	-
	<b>FORMWORK</b>			
	<u>Sawn formwork to:-</u>			
L	Face of oversite concrete bed not exceeding 150mm thick	32	m	-
	<b>BLOCK WALL IN SUB-STRUCTURE</b>			
	<u>225mm hollow filled solid sandcrete block wall in:</u>			
M	Foundation walls	30	m2	-
	<b>DAMP-PROOF MEMBRANE</b>			
N	Gauge 1000 polythene damp proof membrane	56	m2	-
	<b>SUB-STRUCTURAL WORKS</b>			
	Carried to summary			-

S/N	DESCRIPTION	QTY	UNIT	AMOUNT
	<b>ELEMENT No. 2</b>			
	<b>ROOF COVERING</b>			
	<b>ALUMINIUM ROOFING</b>			
	Supply and install 0.55mm gauge oven baked aluminium roof covering laid and made to laps according to manufacturer's instruction.			
A	Roof Covering	77	m2	-
B	Aluminium flashing neatly applied to roof wall; 300mm girth	10	m	-
	<b>Sawn treated hardwood</b>			
C	150 x 50mm rafter	61	m	-
D	150 x 50mm Tie beam.	61	m	-
E	100 x 75mm Wall plate	33	m	-
F	100 x 50mm strut	92	m	-
G	50 x 75mm Purlin	86	m	-
H	50 x 50mm Noggins.	260	m	-
J	25 x 300mm fascia	34	m	-
	<b>CONCRETE WORK IN ROOF CONSTRUCTION</b>			
	Reinforced in-situ concrete developing minimum works strength of 20N/mm2 at 28 days filled into formwork and vibrated in:			
K	Coping	1	m3	-
	<b>REINFORCEMENT (PROVISIONAL)</b>			
	<b>High tensile steel bar reinforcement to B.S. 4461</b>			
L	Fabric mesh A142 in concrete coping	5	m2	-
	<b>FORMWORK</b>			
	<b>Sawn formwork to:-</b>			
M	Sides and Soffit of concrete coping	4	m2	-
	<b>ROOF CONSTRUCTION</b>			
	Carried to summary			-



S/N	DESCRIPTION	QTY	UNIT	AMOUNT
	<b>ELEMENT No. 4</b>			
	<b>WINDOWS</b>			
	<b>CONCRETE WORKS</b>			
	<u>Reinforced in-situ concrete developing minimum works strength of 20N/mm<sup>2</sup> at 28 days filled into formwork and vibrated in:</u>			
A	Lintel	2	m3	-
	<b>REINFORCEMENT(Provisional)</b>			
B	10 - 12mm Diameter high tensile steel bar in lintel	173	Kg	-
	<b>FORM WORK</b>			
C	Formwork to sides and soffit of lintel	20	m2	-
	<b>ALUMINIUM WINDOW</b>			
	<u>Supply and fix Aluminium profile Windows glazed with 5mm glass to opening size:.</u>			
D	1800 x 900mm high; 2 panels, sliding window with fixed panes on 2 tracks	4	Nr	-
E	900 x 1200mm high; 2 panels, sliding window with fixed panes on 2 tracks	2	Nr	-
F	450 X 1200mm high; single panel; casement window	1	Nr	-
	<b>Burglary proof</b>			
	<u>Composite mild steel burglar bar fixed screen panel units fixed to structural window opening comprising mild steel hollow section; 40 x 40 intermediate bar vertically and horizontally positioned and fixed to 50 x 50 mild steel hollow section with and including angle bracket welded together, finished with two coats of gloss oil paint</u>			
	<u>Overall opening sizes</u>			
G	1800 x 900mm high	4	Nr	-
H	900 x 1200mm high	2	Nr	-
J	450 X 1200mm high	1	Nr	-
	<b>WINDOWS</b>			
	Carried to Summary			-



S/N	DESCRIPTION	QTY	UNIT	AMOUNT
	<b>ELEMENT No. 6</b>			
	<b>FLOOR FINISHES</b>			
	Supply and Fix the following:			
A	600mm x 600mm x 8mm Vitrified Standard Ceramic non-slip floor tiles to B.S. 1281 fixed with tile adhesive, butt jointed and pointed in matching grout.	46	m2	-
B	100mm skirtings.	68	m	-
	<u>Cement and sand (1:3)</u>			
C	42mm Cement and sand screed bed	56	m2	-
	<b>WALL FINISHES</b>			
	<u>15mm Cement and sand (1:4) internal rendering on:-</u>			
D	Walls	233	m2	-
	<u>15mm Cement and sand (1:4) external rendering on:-</u>			
E	Walls	123	m2	-
F	Ditto Parapet wall	11	m2	-
	<u>Wall tile finishing</u>			
G	400mm x 250mm x 6mm glazed Standard ceramic wall tiles to B.S. 1281 laid with 2mm square joints on screeded backing (measured separately) bedded in plain cement mortar and grouted in neat white cement.	31	m2	-
	<u>Bed and Backing</u>			
	<u>Cement and sand (1:3)</u>			
H	15mm Cement and sand floated backing.	31	m2	-
	<b>CEILING FINISHES</b>			
	<u>Ceiling Material</u>			
J	3mm thick Nigerite Kalsi-ceil Prestige fibre cement decorative ceiling board closely laid on timber noggins with cover strips/batten to flush smooth at all joints to manufacturer's specification	59	m2	-
	<b>PAINTING AND DECORATING</b>			
K	Prepare and apply two coats of approved emulsion paint on rendered walls (internally).	233	m2	-
L	Ditto soffit of plasterboard ceiling.	59	m2	-
M	Prepare and apply Textcote or other equal and approved equal on rendered walls externally.	145	m2	-
N	Prepare and apply single coat of approved emulsion paint on timber fascia	10	m2	-
	<b>FLOOR, WALL AND CEILING FINISHES</b>			
	Carried to Summary			-



S/N	DESCRIPTION	QTY	UNIT	AMOUNT
	<u>PROPOSED L.P.G PLANT FOR IBILE OIL AND GAS CORPORATION ALONG EBUTE-IGBAJO ROAD, MABADEJE STREET, IKORODU LOCAL GOVERNMENT AUTHORITY, LAGOS STATE.</u>			
	<u>ADMINISTRATIVE BUILDING SUMMARY</u>			
A	SUBSTRUCTURE			-
B	ROOF CONSTRUCTION			-
C	INTERNAL AND EXTERNAL WALLS			-
D	WINDOWS			-
E	DOORS			-
F	FLOOR, WALLS, CEILING FINISHES			-
	<b>ADMINISTRATIVE BUILDING CARRIED TO GENERAL SUMMARY</b>			-

**BILL NR 3:**

**CYLINDER FILLING SHED**

S/N	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>PROPOSED L.P.G PLANT FOR IBILE OIL AND GAS CORPORATION ALONG EBUTE-IGBAJO ROAD, MABADEJE STREET, IKORODU LOCAL GOVERNMENT AUTHORITY, LAGOS STATE.</b>				
	<b>BILL NR 3: CYLINDER FILLING SHED</b>				
	<b>ELEMENT No. 1</b>				
	<b>SUB-STRUCTURAL WORKS</b>				
	<b>EXCAVATION AND EARTHWORK</b>				
A	Excavate top vegetable soil average 150mm deep.	52	m2	-	-
B	Excavate pit for column bases concrete commencing from ground level and not exceeding 1.00m deep	4	m3	-	-
C	Excavate trench to receive foundation concrete commencing from ground level and not exceeding 1.00m deep	9	m3	-	-
D	Level and compact bottom of excavation to receive blinding.	14	m2	-	-
E	Sharp sand filling in making up levels well compacted to receive concrete	13	m3	-	-
	<b>CONCRETE WORK</b>				
F	50mm blinding (1:10) in foundation.	17	m2	-	-
G	Ditto under bed.	40	m2	-	-
	<u>Plain in-situ concrete developing minimum works strength of 20N/mm2 at 28 days filled into formwork and vibrated in:-</u>				
H	Foundation	2	m3	-	-
	<u>Reinforced in-situ concrete developing minimum works strength of 20N/mm2 at 28 days filled into formwork and vibrated in:-</u>				
J	150mm oversite concrete slab	12	m3	-	-
K	Column bases and starters	2	m3	-	-
	<b>REINFORCEMENT (PROVISIONAL )</b>				
L	Fabric mesh A142 in 150mm oversite concrete slab	44	m2	-	-
M	10 - 12mm Diameter in Column starter and bases	261	Kg	-	-
	<b>FORMWORK</b>				
	<u>Sawn formwork to:-</u>				
N	Sides of column studs	8	m2	-	-
P	Face of oversite concrete bed not exceeding 150mm thick	47	m	-	-
	<b>BLOCK WALL IN SUB-STRUCTURE</b>				
	<u>225mm hollow filled solid sandcrete block wall in:</u>				
Q	Foundation walls	15	m2	-	-
	<b>SUB-STRUCTURAL WORKS</b>				
	Carried to summary				-

<u>ELEMENT No. 2</u>					
<u>ROOF COVERING</u>					
<u>ALUMINIUM ROOFING</u>					
<u>Supply and install 0.55mm gauge oven baked aluminium roof covering laid and made to laps according to manufacturer's instruction.</u>					
A	Roof Covering	53	m <sup>2</sup>	-	-
<u>Sawn treated hardwood</u>					
B	150 x 50mm rafter	50	m	-	-
C	150 x 50mm Tie beam.	33	m	-	-
D	100 x 75mm Wall plate	30	m	-	-
E	100 x 50mm strut	32	m	-	-
F	50 x 75mm Purlin	75	m	-	-
G	50 x 50mm Noggins.	212	m	-	-
H	25 x 300mm fascia	34	m	-	-
ROOF CONSTRUCTION					
Carried to summary					-

<u>ELEMENT No. 3</u>					
<u>COLUMNS CONCRETE WORKS</u>					
<u>Reinforced in-situ concrete developing minimum works strength of 20N/mm2 at 28 days filled into formwork and vibrated in:</u>					
A	Columns	3	m3	-	-
B	Roof beams	1	m3	-	-
<u>REINFORCEMENT(Provisional)</u>					
C	10 - 16mm Diameter high tensile steel bar in Columns	340	Kg	-	-
D	10 - 16mm Diameter high tensile steel bar in roof beams	125	Kg	-	-
<u>FORM WORK</u>					
E	Formwork to sides of Columns	26	m2	-	-
F	Formwork to sides and soffits of roof beams	17	m2	-	-
<b>COLUMNS CONCRETE WORKS</b> Carried to Summary					-

<b>ELEMENT No. 4</b>				
<b>FLOOR FINISHES</b>				
<u>Cement and sand (1:3)</u>				
A	50mm Cement and sand screeded bed trowelled to finish	44	m2	-
<b>COLUMNS FINISHES</b>				
<u>15mm Cement and sand (1:4) internal rendering on:-</u>				
B	Column surfaces	30	m2	-
<b>CEILING FINISHES</b>				
C	3mm thick Nigerite Kalsi-ceil Prestige fibre cement decorative ceiling board closely laid on timber noggins with cover strips/batten to flush smooth at all joints to manufacturer's specification	53	m2	-
<b>PAINTING AND DECORATING</b>				
D	Prepare and apply two coats of approved emulsion paint on rendered column surfaces.	30	m2	-
FLOOR, WALL AND CEILING FINISHES/PAINTING AND DECORATING Carried to Summary				-

<u>PROPOSED L.P.G PLANT FOR IBILE OIL AND GAS CORPORATION ALONG EBUTE-IGBAJO ROAD, MABADEJE STREET, IKORODU LOCAL GOVERNMENT AUTHORITY, LAGOS STATE.</u>					
	<u>CYLINDER FILLING SHED</u>				
A	SUBSTRUCTURE				-
B	ROOF CONSTRUCTION				-
C	COLUMNS CONCRETE WORKS				-
D	FLOOR & COLUMN FINISHES				-
	CYLINDER FILLING SHED CARRIED TO GENERAL SUMMARY				-

**BILL NR 4:**

**PUMP HOUSE**



S/N	DESCRIPTION	QTY	UNIT	AMOUNT
	<b>PROPOSED L.P.G PLANT FOR IBILE OIL AND GAS CORPORATION ALONG EBUTE-IGBAJO ROAD, MABADEJE STREET, IKORODU LOCAL GOVERNMENT AUTHORITY, LAGOS STATE.</b>			
	<b>BILL NR 4: PUMP HOUSE</b>			
	<b>ELEMENT No. 1</b>			
	<b>SUB-STRUCTURAL WORKS</b>			
	<b>EXCAVATION AND EARTHWORK</b>			
A	Excavate top vegetable soil average 150mm deep.	34	m2	-
B	Excavate trench to receive foundation concrete commencing from ground level and not exceeding 1.00m deep	8	m3	-
C	Level and compact bottom of excavation to receive blinding.	8	m2	-
D	Sharp sand filling in making up levels well compacted to receive concrete	3	m3	-
E	150mm hand pick hard core spread above earth filling and well compacted	-	m2	-
	<b>CONCRETE WORK</b>			
F	50mm blinding (1:10) in foundation.	8	m2	-
G	Ditto under bed.	14	m2	-
	<u>Plain in-situ concrete developing minimum works strength of 20N/mm<sup>2</sup> at 28 days filled into formwork and vibrated in:-</u>			-
H	Foundation	2	m3	-
	<u>Reinforced in-situ concrete developing minimum works strength of 20N/mm<sup>2</sup> at 28 days filled into formwork and vibrated in:-</u>			-
J	150mm oversite concrete slab	2	m3	-
	<b>REINFORCEMENT (PROVISIONAL )</b>			
K	Fabric mesh A142 in 150mm oversite concrete slab	14	m2	-
	<b>FORMWORK</b>			
	<u>Sawn formwork to:-</u>			-
L	Face of oversite concrete bed not exceeding 150mm thick	15	m	-
	<b>BLOCK WALL IN SUB-STRUCTURE</b>			
	<u>225mm hollow filled solid sandcrete block wall in:</u>			-
M	Foundation walls	3	m2	-
	<b>SUB-STRUCTURAL WORKS</b>			
	Carried to summary			-











**BILL NR 5:**

**LPG STORAGE TANK**





**BILL NR 6:**

**OVER-HEAD WATER TANK**

S/N	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>PROPOSED L.P.G PLANT FOR IBILE OIL AND GAS CORPORATION ALONG EBUTE-IGBAJO ROAD, MABADEJE STREET, IKORODU LOCAL GOVERNMENT AUTHORITY, LAGOS STATE.</u>				
	<b>BILL NR 6: OVER HEAD WATER TANK</b>				
	<u>SUB-STRUCTURAL WORKS</u>				
	<u>EXCAVATION AND EARTHWORK</u>				
A	Excavate top vegetable soil average 150mm deep.	9	m2	-	-
B	Level and compact bottom of excavation to receive blinding.	5	m2	-	-
	<u>CONCRETE WORK</u>				
C	50mm blinding (1:10) under slab	5	m2	-	-
	<u>Reinforced in-situ concrete developing minimum works strength of 20N/mm2 at 28 days filled into formwork and vibrated in:-</u>				
D	150mm concrete tank slab	1	m3	-	-
E	Suspended tank base and roof beams	1	m3	-	-
F	Concrete columns	1	m3	-	-
	<u>REINFORCEMENT (PROVISIONAL )</u>				
G	Fabric mesh A142 in 150mm oversite concrete tank slab	5	m2	-	-
H	10 - 12mm Diameter in tank base and roof beams	169	Kg	-	-
J	10 - 16mm Diameter in Concrete columns	175	Kg	-	-
	<u>FORMWORK</u>				
	<u>Sawn formwork to:-</u>				
K	Face of concrete tank slab not exceeding 200mm thick	12	m	-	-
L	Formwork to faces of ground tank and roof beams	15	m2	-	-
M	Formwork to sides of Columns	19	m2	-	-
	<u>Finishing</u>				
	<u>15mm Cement and sand (1:4) rendering on:-</u>				
N	Column surfaces and soffit of tank slab	36	m2	-	-
	<b>OVER HEAD WATER STORAGE TANK CARRIED TO GENERAL SUMMARY</b>				-

**BILL NR 7:**

**GENERATOR HOUSE**

S/N	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>PROPOSED L.P.G PLANT FOR IBILE OIL AND GAS CORPORATION ALONG EBUTE-IGBAJO ROAD, MABADEJE STREET, IKORODU LOCAL GOVERNMENT AUTHORITY, LAGOS STATE.</b>				
	<b>BILL NR 7: GENERATOR HOUSE</b>				
	<u>ELEMENT No. 1</u>				
	<b>SUB-STRUCTURAL WORKS</b>				
	<b>EXCAVATION AND EARTHWORK</b>				
A	Excavate top vegetable soil average 150mm deep.	25	m2		-
B	Excavate trench to receive foundation concrete commencing from ground level and not exceeding 1.00m deep	7	m3		-
C	Level and compact bottom of excavation to receive blinding.	10	m2		-
D	Sharp sand filling in making up levels well compacted to receive concrete	4	m3		-
	<b>CONCRETE WORK</b>				
E	50mm blinding (1:10) in foundation.	10	m2		-
F	Ditto under Concrete plinth	10	m2		-
	<u>Plain in-situ concrete developing minimum works strength of 20N/mm2 at 28 days filled into formwork and vibrated in:-</u>				-
G	Foundation	2	m3		-
	<u>Reinforced in-situ concrete developing minimum works strength of 20N/mm2 at 28 days filled into formwork and vibrated in:-</u>				-
H	250mm concrete plinth	3	m3		-
	<b>REINFORCEMENT (PROVISIONAL )</b>				
J	10 - 16mm Diameter in Concrete plinth	282	Kg		-
	<b>FORMWORK</b>				
	<u>Sawn formwork to:-</u>				-
K	Face of concrete plinth not exceeding 300mm thick	13	m		-
	<b>BLOCK WALL IN SUB-STRUCTURE</b>				
	<u>225mm hollow filled solid sandcrete block wall in:</u>				-
L	Foundation walls	7	m2		-
	<b>SUB-STRUCTURAL WORKS</b>				
	Carried to summary				-











**BILL NR 8:**

**GATE HOUSE**

S/N	DESCRIPTION	QTY	UNIT	AMOUNT
	<u>PROPOSED L.P.G PLANT FOR IBILE OIL AND GAS CORPORATION ALONG EBUTE-IGBAJO ROAD, MABADEJE STREET, IKORODU LOCAL GOVERNMENT AUTHORITY, LAGOS STATE.</u>			
	<b>BILL NR 8: GATE HOUSE</b>			
	<u>ELEMENT No. 1</u>			
	<u>SUB-STRUCTURAL WORKS</u>			
	<u>EXCAVATION AND EARTHWORK</u>			
A	Excavate top vegetable soil average 150mm deep.	16	m2	-
B	Excavate trench to receive foundation concrete commencing from ground level and not exceeding 1.00m deep	12	m3	-
C	Level and compact bottom of excavation to receive blinding.	13	m2	-
D	Sharp sand filling in making up levels well compacted to receive concrete	4	m3	-
	<u>CONCRETE WORK</u>			
E	50mm blinding (1:10) in foundation.	3	m2	-
F	Ditto under bed.	15	m2	-
	<u>Plain in-situ concrete developing minimum works strength of 20N/mm2 at 28 days filled into formwork and vibrated in:-</u>			
G	Foundation	3	m3	-
	<u>Reinforced in-situ concrete developing minimum works strength of 20N/mm2 at 28 days filled into formwork and vibrated in:-</u>			
H	150mm oversite concrete slab	2	m3	-
	<u>REINFORCEMENT (PROVISIONAL )</u>			
J	Fabric mesh A142 in 150mm oversite concrete slab	14	m2	-
	<u>FORMWORK</u>			
	<u>Sawn formwork to:-</u>			
K	Face of oversite concrete bed not exceeding 150mm thick	16	m	-
	<u>BLOCK WALL IN SUB-STRUCTURE</u>			
	<u>225mm hollow filled solid sandcrete block wall in:</u>			
L	Foundation walls	13	m2	-
	<u>DAMP-PROOF MEMBRANE</u>			
M	Gauge 1000 polythene damp proof membrane	15	m2	-
	<b>SUB-STRUCTURAL WORKS</b>			
	Carried to summary			-

<u>ELEMENT No. 2</u>				
<u>ROOF COVERING</u>				
<u>ALUMINIUM ROOFING</u>				
<u>Supply and install 0.55mm gauge oven baked aluminium roof covering laid and made to laps according to manufacturer's instruction.</u>				
A	Roof Covering	18	m2	-
B	Aluminium flashing neatly applied to wall and roof material surface	9	m	-
<u>Sawn treated hardwood</u>				
C	150 x 50mm rafter	20	m	-
D	150 x 50mm Tie beam.	20	m	-
E	100 x 75mm Wall plate	11	m	-
F	100 x 50mm strut	32	m	-
G	50 x 75mm Purlin	29	m	-
H	50 x 50mm Noggins.	63	m	-
J	25 x 300mm fascia	34	m	-
<b>ROOF CONSTRUCTION</b>				
Carried to summary				-

<u>ELEMENT No.3</u>				
<u>EXTERNAL AND INTERNAL WALLS</u>				
<u>Vibrated sandcrete hollow block walling in:-</u>				
A	225mm blockwork.	54	m2	-
B	Ditto Parapet	3	m2	-
C	150mm blockwork.	4	m2	-
EXTERNAL AND INTERNAL WALLS Carried to summary				-





<b>ELEMENT No. 6</b>				
<b>FLOOR FINISHES</b>				
<u>Supply and Fix the following:</u>				
A	600mm x 600mm x 8mm Vitrified Standard Ceramic non-slip floor tiles to B.S. 1281 fixed with tile adhesive, butt jointed and pointed in matching grout.	10	m2	-
B	100mm skirtings.	14	m	-
<u>Cement and sand (1:3)</u>				
C	42mm Cement and sand screed bed	12	m2	-
<b>WALL FINISHES</b>				
<u>15mm Cement and sand (1:4) internal rendering on:-</u>				
D	Walls	31	m2	-
<u>15mm Cement and sand (1:4) external rendering on:-</u>				
E	Walls	55	m2	-
<u>Wall tile finishing</u>				
<u>Supply and Fix only</u>				
F	400mm x 250mm x 6mm glazed Standard ceramic wall tiles to B.S. 1281 laid with 2mm square joints on screeded backing (measured separately) bedded in plain cement mortar and grouted in neat white cement.	13	m2	-
<u>Bed and Backing</u>				
<u>Cement and sand (1:3)</u>				
G	15mm Cement and sand floated backing.	13	m2	-
<b>CEILING FINISHES</b>				
<u>Ceiling Material</u>				
H	3mm thick Nigerte Kalsi-ceil Prestige fibre cement decorative ceiling board closely laid on timber noggins with cover strips/batten to flush smooth at all joints to manufacturer's specification	19	m2	-
<b>PAINTING AND DECORATING</b>				
J	Prepare and apply two coats of approved emulsion paint on rendered walls (internally).	31	m2	-
K	Ditto soffit of ceiling.	19	m2	-
L	Prepare and apply Textcote or other equal and approved equal on rendered walls externally.	55	m2	-
M	Prepare and apply single coat of approved emulsion paint on timber fascia	3	m2	-
<b>FLOOR, WALL AND CEILING FINISHES</b>				
Carried to Summary				-





**BILL NR 9:**

**MECHANICAL INSTALLATIONS**

REF	DESCRIPTION	QTY	UNIT		AMOUNT
A	<p><b><u>BILL NR 6:</u></b>  <b><u>MECHANICAL SERVICES BILLS:</u></b>  <b><u>GENERAL NOTES ON METHOD OF MEASUREMENTS</u></b></p> <p><b><u>GENERAL</u></b>                      The following clauses described the method of Measurement of Building Works adopted in this bill of quantities. The clauses are applicable to all sections of this bill. The relevant Technical Specifications, Schedules and Drawings should be referred to for detailed description of the items comprising this bill.</p> <p><b><u>Pipework</u></b>                      The prices for pipeworks shall include for:</p> <ul style="list-style-type: none"> <li>a. All diameters referred to in this bill are internal diameter.</li> <li>b. All types of joints specified in the specifications.</li> <li>c. Screwed sockets, tappings, bosses and welding-neck welded to pipes or flanges.</li> <li>d. Pipe fittings and sleeves unless otherwise stated.</li> <li>e. Pipe supports, clips, anchors, and brackets unless otherwise state.</li> <li>f. Cleaning caps, plugs etc.</li> <li>g. All pipe sizes are internal diameters.</li> </ul> <p><b><u>Equipment</u></b>                      The prices for equipment shall include for:-</p> <ul style="list-style-type: none"> <li>a. All components forming an integral part of the equipment including all components and fittings necessary in making the equipment complete and operational as described on the drawings and specifications.</li> </ul> <p><b><u>Sanitary Fittings</u></b>                      The prices of the fixtures shall include:-</p> <p>The supply and installation of sanitary wares, fittings, bathroom and toilet accessories and all other installation accessories.</p> <p>The client is at liberty to supply some items in the Bills of quantities e.g. Sanitary Wares, appliances etc.</p> <p>The whole work shall be subject to re-measurement.</p> <p>Basic Rates of materials quoted for shall be submitted with this document.</p>				

REF	DESCRIPTION	QTY	UNIT	AMOUNT
	<b><u>MAIN BUILDING MECHANICAL INSTALLATIONS</u></b>			
	<b><u>SANITARY WARES</u></b>			
	<i><u>HABISCUS or approved equal) Complete with all installation accessories.</u></i>			
	<b><u>WATER CLOSET</u></b>			
A	Habiscus Close Couple STF Water Closet	3	nr	-
B	WC hand spray and complete flushing mechanism for the WC	3	nr	-
	<b><u>WASH HAND BASIN</u></b>			
C	Wash Hand Basin with half Pedestal	3	nr	-
	<b><u>TOILET ACCESSORIES</u></b>			
D	Toilet Roll Holder ; fully recessed type, 150 x 150mm	3	nr	-
E	Toilet Brush and Holder	3	nr	-
F	Soap Holder	3	nr	-
G	Wall hung mirrors; 600 x 600 x 6mm	3	nr	-
	<i><u>All extractor fans shall be complete with speed regulators and timer, wall/ window mounted toilet extractor fan VORTICE model complete with back draught damper;</u></i>			
H	EF-1 Vortice Punto Range M100/4", Airflow: 90m <sup>3</sup> /h	3	Nr	-
	<b><u>BUILDER'S WORK</u></b>			
I	Allow for builder's work in connection with sanitary wares installation		item	
	<b>SANITARY WARES TO SUMMARY</b>			-

REF	DESCRIPTION	QTY	UNIT	AMOUNT
	<b><u>PORTABLE FIRE EXTINGUISHERS AND APPLIANCES</u></b>			
	<b><u>SRI OR NAFFCO</u></b>			
	<i>Portable Fire Extinguisher complete with mounting bracket and other accessories.</i>			
A	50Kg ABC fire extinguisher (trolley type)	1	Nr	-
B	9Kg portable ABC dry chemical powder fire extinguisher	2	Nr	-
C	9Kg portable CO2 fire extinguisher	2	Nr	-
	<b><u>BUILDER'S WORK</u></b>			
D	Allow for builder's work in connection with portable fire extinguishers		item	
	<b>PORTABLE FIRE EXTINGUISHERS APPLIANCES TO SUMMARY</b>			-

REF	DESCRIPTION	QTY	UNIT	AMOUNT
	<b><u>WATER SUPPLY PIPEWORKS INSTALLATION</u></b>			
	<b><u>COLD WATER PIPEWORK</u></b>			
	<i><u>PPR pipes and fittings unless otherwise stated.</u></i>			
	Internal diameter specification only			
A	32mm pipes	10	m	-
B	25mm pipes	7	m	-
C	20mm pipes	9	m	-
D	20mm x 15mm female bend	8	Nr	-
E	25mm bend	4	Nr	-
F	25mm tee	4	Nr	-
G	32mm bend	5	Nr	-
H	32mm tee	2	Nr	-
I	32 x 25mm socket	2	Nr	-
J	25 x 20mm Socket	3	Nr	-
K	20mm Triangular valve (chromium plated)	2	Nr	-
L	15mm chrome flexible connector	8	Nr	-
M	20mm union connector	2	Nr	-
N	25mm union connector	2	Nr	-
O	25mm gate triangular valve	2	Nr	-
P	15mm Angular valve	8	Nr	-
	<b><u>BUILDERS WORK</u></b>			
Q	Allow for builder's work in connection with water supply pipeworks		item	-
	<b>WATER SUPPLY PIPEWORKS INSTALLATION TO SUMMARY</b>			-

REF	DESCRIPTION	QTY	UNIT	AMOUNT
<b><u>SOIL, WASTE AND RAINWATER PIPEWORK INSTALLATION</u></b>				
<i>DPR pipes and fittings unless otherwise stated. (PROVISIONAL)</i>				
A	100mm diameter waste/vent/soil/Rain pipe	30	m	-
B	100mm bend (90° & 45°)	12	Nr	-
C	100mm tee (straight & WYE)	4	Nr	-
D	100mm vent cowl	2	Nr	-
E	100mm plug	2	Nr	-
F	100mm pan connector	3	Nr	-
G	50mm diameter waste/vent pipe	10	m	-
H	50mm bend (90° & 45°)	12	Nr	-
I	50mm tee (straight & WYE)	4	Nr	-
J	50mm plug	2	Nr	-
K	100mm Socket	10	Nr	-
L	50mm Socket	5	Nr	-
M	100mm rain water outlet	1	Nr	-
N	50mm floor drain with plastic cover	3	Nr	-
O	Accessories, tangit gum, brackets etc.		lot	-
<b><u>BUILDERS WORK</u></b>				
P	Allow for builder's work in connection with soil, waste and rain water supply pipe works		item	-
<b>SOIL, WASTE AND RAINWATER PIPEWORK INSTALLATION TO SUMMARY</b>				-

REF	DESCRIPTION	QTY	UNIT	AMOUNT
<b><u>WATER STORAGE TANK AND OTHER ACCESSORIES</u></b>				
A	Supply and install 2,500 Litres PVC (GEEPEE) tank on Stanchion	2	Nr	-
B	Supply and install 10,000 Litres PVC (GEEPEE) fresh water tank	1	Nr	-
C	Supply and install 32mm Ball Valve	1	Nr	-
D	Supply and install 10A SP Union Float Switch	2	Nr	-
<b>WATER STORAGE TANK AND OTHER ACCESSORIES TO SUMMARY</b>				-

REF	DESCRIPTION	QTY	UNIT	AMOUNT
<b><u>AIR-CONDITIONING AND VENTILATION</u></b>				
A	High wall mounted mini split AC unit complete with average of 10m length each of suction and liquid refrigerant pipes with armafex insulation, condensate drain pipes, sleeve and installation accessories. Unit shall be equipped with wireless remote control. (1.5HP) Capacity: 3.37kW, Make: LG, MODEL: S1268H Dimension/weight: Indoor-890mm L x 290mm H x 210mm D/10kg Outdoor - 776mm L x 499mm H x 234mm D/34kg	2	Nr	-
B	Automatic Voltage Switcher (AVS 30) for protection of the split Air-Conditioning Units .	2	Nr	-
C	Steel bracket for mounting of outdoor condensers for split units	2	Nr	-
<b><u>BUILDERS WORK</u></b>				
D	Allow for builder's work in connection with A/C and Steel bracket installation.		item	
<b>AIR-CONDITION AND VENTILATION INSTALLATION TO SUMMARY</b>				-



REF	DESCRIPTION	QTY	UNIT		AMOUNT
	<u>SUMMARY</u>				
1	SANITARY WARES				
2	FIRE EXTINGUISHERS APPLIANCES				
3	WATER SUPPLY PIPEWORKS INSTALLATION				
4	SOIL, WASTE AND RAINWATER PIPEWORK INSTALLATION				
5	WATER STORAGE TANK AND OTHER ACCESSORIES				
6	AIR-CONDITION AND VENTILATION INSTALLATION				
	Summary				
	MAIN BUILDING MECHANICAL AND PLUMBING INSTALLATION Carried to General				
	Summary				-

REF	DESCRIPTION	QTY	UNIT	AMOUNT
	<b><u>GATE HOUSE MECHANICAL INSTALLATIONS</u></b>			
	<b><u>SANITARY WARES</u></b>			
	<b><u>HABISCUS or approved equal) Complete with all installation accessories.</u></b>			
	<b><u>WATER CLOSET</u></b>			
A	Habiscus Close Couple STF Water Closet	1	nr	-
B	WC hand spray and complete flushing mechanism for the WC	1	nr	-
	<b><u>WASH HAND BASIN</u></b>			
C	Wash Hand Basin with half Pedestal	1	nr	-
	<b><u>TOILET ACCESSORIES</u></b>			
D	Toilet Roll Holder ; fully recessed type, 150 x 150mm	1	nr	-
E	Toilet Brush and Holder	1	nr	-
F	Soap Holder	1	nr	-
G	Wall hung mirrors; 600 x 600 x 6mm	1	nr	-
	<b><u>All extractor fans shall be complete with speed regulators and timer, wall/ window mounted toilet extractor fan VORTICE model complete with back draught damper;</u></b>			
H	EF-1 Vortice Punto Range M100/4", Airflow: 90m <sup>3</sup> /h	1	Nr	-
	<b><u>BUILDER'S WORK</u></b>			
I	Allow for builder's work in connection with sanitary wares installation		item	
	<b>SANITARY WARES TO SUMMARY</b>			-

REF	DESCRIPTION	QTY	UNIT	AMOUNT
	<b><u>PORTABLE FIRE EXTINGUISHERS AND APPLIANCES</u></b>			
	<b><u>SRI OR NAFFCO</u></b>			
	<i>Portable Fire Extinguisher complete with mounting bracket and other accessories.</i>			
A	9Kg portable ABC dry chemical powder fire extinguisher	1	Nr	-
B	9Kg portable CO2 fire extinguisher	1	Nr	-
	<b><u>BUILDER'S WORK</u></b>			
D	Allow for builder's work in connection with portable fire extinguishers		item	
	<b>PORTABLE FIRE EXTINGUISHERS APPLIANCES TO SUMMARY</b>			-

REF	DESCRIPTION	QTY	UNIT	AMOUNT
	<b><u>WATER SUPPLY PIPEWORKS INSTALLATION</u></b>			
	<b><u>COLD WATER PIPEWORK</u></b>			
	<i>PPR pipes and fittings unless otherwise stated.</i>			
	Internal diameter specification only			
A	32mm pipes	5	m	-
B	25mm pipes	2	m	-
C	20mm pipes	4	m	-
D	20mm x 15mm female bend	2	Nr	-
E	25mm bend	2	Nr	-
F	25mm tee	2	Nr	-
G	32mm bend	2	Nr	-
H	32mm tee	1	Nr	-
I	32 x 25mm socket	1	Nr	-
J	25 x 20mm Socket	1	Nr	-
K	20mm Triangular valve (chromium plated)	1	Nr	-
L	15mm chrome flexible connector	2	Nr	-
M	20mm union connector	2	Nr	-
N	25mm union connector	2	Nr	-
O	25mm gate triangular valve	1	Nr	-
P	15mm Angular valve	2	Nr	-
	<b><u>BUILDERS WORK</u></b>			
Q	Allow for builder's work in connection with water supply pipeworks		item	-
	<b>WATER SUPPLY PIPEWORKS INSTALLATION TO SUMMARY</b>			-

REF	DESCRIPTION	QTY	UNIT	AMOUNT
<b><u>SOIL, WASTE AND RAINWATER PIPEWORK INSTALLATION</u></b>				
<i>DPR pipes and fittings unless otherwise stated. (PROVISIONAL)</i>				
A	100mm diameter waste/vent/soil/Rain pipe	7	m	-
B	100mm bend (90° & 45°)	4	Nr	-
C	100mm tee (straight & WYE)	1	Nr	-
D	100mm vent cowl	1	Nr	-
E	100mm plug	1	Nr	-
F	100mm pan connector	1	Nr	-
G	50mm diameter waste/vent pipe	6	m	-
H	50mm bend (90° & 45°)	4	Nr	-
I	50mm tee (straight & WYE)	1	Nr	-
J	50mm plug	1	Nr	-
K	100mm Socket	2	Nr	-
L	50mm Socket	2	Nr	-
M	50mm floor drain with plastic cover	1	Nr	-
N	Accessories, tangit gum, brackets etc.		lot	-
<b><u>BUILDERS WORK</u></b>				
O	Allow for builder's work in connection with soil, waste and rain water supply pipe works		item	-
<b>SOIL, WASTE AND RAINWATER PIPEWORK INSTALLATION TO SUMMARY</b>				-

REF	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<b><u>AIR-CONDITIONING AND VENTILATION</u></b>					
A	High wall mounted mini split AC unit complete with average of 10m length each of suction and liquid refrigerant pipes with armafex insulation, condensate drain pipes, sleeve and installation accessories. Unit shall be equipped with wireless remote control. (1.5HP) Capacity: 3.37kW, Make: LG, MODEL: S1268H Dimension/weight: Indoor-890mm L x 290mm H x 210mm D/10kg Outdoor - 776mm L x 499mm H x 234mm D/34kg	0	Nr		-
B	Automatic Voltage Switcher (AVS 30) for protection of the split Air-Conditioning Units .	0	Nr		-
C	Steel bracket for mounting of outdoor condensers for split units	0	Nr		-
<b><u>BUILDERS WORK</u></b>					
D	Allow for builder's work in connection with A/C and Steel bracket installation.		item		
<b>AIR-CONDITION AND VENTILATION INSTALLATION TO SUMMARY</b>					-

REF	DESCRIPTION	QTY	UNIT		AMOUNT
	<u>SUMMARY</u>				
1	SANITARY WARES				
2	FIRE EXTINGUISHERS APPLIANCES				
3	WATER SUPPLY PIPEWORKS INSTALLATION				
4	SOIL, WASTE AND RAINWATER PIPEWORK INSTALLATION				
5	AIR-CONDITION AND VENTILATION INSTALLATION				
	Summary GATE HOUSE MECHANICAL AND PLUMBING INSTALLATION Carried to General Summary				-

REF	DESCRIPTION	QTY	UNIT		AMOUNT
<b><u>MECHANICAL AND PLUMBING INSTALLATION SUMMARY</u></b>					
A	MAIN BUILDING MECHANICAL INSTALLATIONS				
B	GATE HOUSE MECHANICAL INSTALLATIONS				-
<b>Summary</b> <b>MECHANICAL AND PLUMBING INSTALLATION Carried to General Summary</b>					
					-



**BILL NR 10:**

**ELECTRICAL INSTALLATIONS**

**MILE 2 GAS PLANT**

**AT MILE 2, LAGOS**

**PRICED BILLS OF QUANTITIES FOR  
ELECTRICAL SYSTEMS INSTALLATIONS**

**ELECTRICAL SERVICES CONSULTANTS**

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**ARCHITECTS**

**RESTLINE INTEGRATED SERVICES**

**3, Bailey Lane, Onipanu  
Shomolu, Lagos  
Nigeria**

**AUG, 2020**

**BILL NO 1:-LOW VOLTAGE POWER SUPPLY AND GENERAL POWER INSTALLATION**

ITEM	DESCRIPTION	MAKE	UNIT RATE		QTY	TOTAL
			DELIVERED	FIXED		=N=
			=N=	=N=		=N=
<b>A</b>	Supply and install the following: <b>415kV Power Supply</b> Allow for 415V Power Supply from the nearest LT Lines via 4nos 1C 35mm Recline Cables to 125A Fused Isolating Switch.				Lot m	
II	125A 4P Fused Main Isolating Switch c/w SE Himel	ABB		0.00	1 Nr	0.00
<b>B</b>	<b>LV Panel</b> 125A LV Panel comprising: Incomer: 2-125A 3P MCCB 1-20kA Surge Arrestor + MCB 1-Ammeter + selector switch + CT 1- Voltmeter + Selector switch + MCB 3-Power ON Pilot Lamp  Outgoings 6nos-32A 3P MCCB 6nos-32A 2P MCB c/w 2-SE Himel Enclosure, set of 125A RYBN + E Busbar. <b>(Panel to have Shunt Trip and Emergency Push Button)</b>					
		ABB		0.00	1 Nr	0.00
II	32A TPN Gear Switch for LPG Tank.	LEGRAND		0.00	2 Nr	0.00
	4C X 25mm <sup>2</sup> PVC/PVC Copper Cable from 25kVA Generator to Change over Switch (Assumed Length)	Coleman		0.00	30 m	0.00
<b>C</b>	<b>Feeder Cables</b> 4C X 25mm <sup>2</sup> PVC/PVC Copper Cable from 125A Gear Switch to Change over Switch (Assumed Length)					
I		Coleman		0.00	30 m	0.00
II	4C 10mm <sup>2</sup> PVC Insulated Copper Cable from LV Panel to 32A Isolating Switch for LPG Tank Pump.	Coleman		0.00	160 m	0.00
III	1C 10mm sq PVC/PVC Earth Cable for the above.	Coleman		0.00	160 m	0.00
IV	3C 6mm <sup>2</sup> Flexible Cable from 32A Gear Switch to connect to air compressor.	Coleman		0.00	50 m	0.00
<b>D</b>	<b>EARTHING OF ELECTRICAL ROOM</b> 1core. 16mm sq PVC copper cable for earthing of LV Panel, Change over Switch, Main Gear Switch to earth bar.					
I		Coleman		0.00	30 m	0.00
II	1core. 16mm sq PVC copper cable for earthing of earth bar to earth.	Coleman		0.00	15 m	0.00
III	6 Way earth bar.	FURSE		0.00	1 Nr	0.00
IV	Plastic Inspection pit.	FURSE		0.00	1 Nr	0.00
V	16mm earth rod - 1.2m including spike/driving stud/coupler.	FURSE		0.00	4 Nr	0.00
<b>Sub Total Carry Forward</b>						<b>0.00</b>

**BILL NO 1:-LOW VOLTAGE POWER SUPPLY AND GENERAL POWER INSTALLATION CONT'D**

ITEM	DESCRIPTION	MAKE	UNIT RATE		QTY	TOTAL COST =N=
			DELIVERED	FIXED		
			=N=	=N=		
	<b>Sub Total Brought Forward</b>					-
<b>E</b>	<b><u>Conduits/Sleeves</u></b>					
I	100mm dia UPVC Pressure Pipe.				Lot	
II	75mm dia UPVC Pressure Pipe.				Lot	
III	50mm dia UPVC Pressure Pipe.				Lot	
IV	32mm dia UPVC Pressure Pipe.				Lot	
<b>F</b>	<b><u>Man-holes (To be provided by Main Contractor)</u></b>					
I	Construct 450mm x 450mm cable inspection chambers as shown in the drawings				Lot	
II	Construct 300mm x 300mm cable inspection chambers as shown in the drawings				Lot	
III	Miscellaneous: tangit gum, binding wire, cable gland, lugs nuts and all other items necessary for the completion of the conduit work.				Lot	
	<b>Bill No.1 to summary page</b>					<b>0.00</b>

**BILL NO 2:-ALTERNATIVE POWER SUPPLY INSTALLATION**

ITEM	DESCRIPTION	MAKE	UNIT RATE		QTY	TOTAL COST =N=
			DELIVERED	FIXED		
			=N=	=N=		
<b>A</b>	Supply and install the following: <b><u>GENERATORS</u></b> 45kVA, 400V, 50Hz, 1500 rpm Three Phase Diesel					
I	Generating Set with Perkins engine c/w all accessories.	FG WILSON			1 Nr	Client's item
II	Spare parts for the maintenance of generators after 2500hrs.				3 Set	
III	Maintenance tool for generators.				1 Set	
<b>B</b>	<b><u>Distribution/Feeder Cables</u></b>					
I	4C X 25mm <sup>2</sup> PVC/PVC Copper Cable from 25kVA Generator to Change over Switch (Assumed Length)	Coleman		0.00	30 m	0.00
III	125A Change over switch	ABB		0.00	1 Nr	0.00
<b>C</b>	<b><u>EARTHING OF GENERATOR</u></b>					
I	1core. 16mm sq PVC coppe cable for earthing of 45kVA generator to earth.	Coleman		0.00	10 m	0.00
II	Plastic Inspection pit.	FURSE		0.00	1 Nr	0.00
II	16mm earth rod - 2.4m including spike/driving stud/coupler.	FURSE		0.00	2 Nr	0.00
<b>Bill No.2 to summary page</b>						<b>0.00</b>

**BILL NO 3:- EXTERNAL LIGHTINGAND SIGNAGE INSTALLATION**

ITEM	DESCRIPTION	MAKE	UNIT RATE		QTY	TOTAL
			DELIVERED	FIXED		=N=
			=N=	=N=		=N=
<b>A</b>	<b><u>Canopy &amp; Street Light Wiring Points</u></b> External lighting points with rigid (dignity) 25mm upvc conduit pipes complete with boxes and other accessories using 3 x 4.0mm sq pvc/ pvc insulated copper cable from switch to light fitting.					
I			0.00	10 Nr	0.00	
<b>B</b>	<b><u>Luminaries and Fittings</u></b>					
I	100W Led Floodlight Light.		0.00	8 Nr	0.00	
II	40W IP65 Ceiling Light.		0.00	2 Nr	0.00	
<b>C</b>	<b><u>Accessories</u></b>					
I	32A TPN Gear Switch for External Lighting and Canopy Shed Lighting.	LEGRAND	0.00	1 Nr	0.00	
III	150 x 150 Weatherproof Conduit Box.		0.00	4 Nr	0.00	
<b>D</b>	<b><u>Signage Wiring Points - To be Fed from Gate House DB</u></b> External lighting points with rigid (dignity) 25mm upvc conduit pipes complete with boxes and other accessories using 3 x 4.0mm sq pvc/ pvc insulated copper cable from switch to Signages.					
I			0.00	6 Nr	0.00	
<b>E</b>	<b><u>Accessories</u></b>					
I	20A double pole switch with noen indicator and earth connection for MFID.	LEGRAND	0.00	2 Nr	0.00	
<b>Bill no.3 summary page</b>						<b>0.00</b>

**BILL NO 4:-MAIN BUILDING LIGHTING AND POWER INSTALLATION**

ITEM	DESCRIPTION	MAKE	UNIT RATE		QTY	TOTAL COST =N=
			DELIVERED	FIXED		
			=N=	=N=		
<b>A</b>	<b><u>Lighting Wiring Points</u></b> <b><u>Conduit and cable trunking</u></b> Cables and wirings are only applicable where fittings are to be installed lighting points and extractor fans with rigid (dignity) 20mm upvc conduit pipes complete with boxes and other accessories using 3 x 1.5mm <sup>2</sup> single core pvc insulated copper cable.			0.00	24 Nr	0.00
<b>B</b>	<b><u>Luminaries and Fittings</u></b> I DW234 - 6" 18W 4000K Recessed Light. II DW233 - 5" 14W 4000K Recessed Light. III Cosmon IP65 2 X 26W Ceiling Light. III Wall Light. IV Extractor Fan Power Termination.			0.00 0.00 0.00 0.00 0.00	15 Nr 3 Nr 2 Nr 2 Nr 2 Nr	0.00 0.00 0.00 0.00 0.00
<b>C</b>	<b><u>Accessories</u></b> Accessories; Lighting switches; as specified rate to include galvanized steel knock-out boxes set in mortices in wall; <b>Supply and fix the following flush switches in compliance to BSEN60669</b> I 10A one gang one way switch. II 10A two gang one way switch. III IP65 10A two gang one way switch.	LEGRAND LEGRAND LEGRAND		0.00 0.00 0.00	4 Nr 2 Nr 1 Nr	0.00 0.00 0.00
<b>D</b>	<b><u>Socket &amp; AC Wiring Points</u></b> 13A socket outlet points with rigid (dignity) 25mm, 1.7mm thick upvc conduit pipes complete with boxes and other accessories using 3 x 2.5mm <sup>2</sup> single core pvc insulated copper cable in ring mains circuit with earthing for base/clean power circuits. I  20A socket outlet points with rigid (dignity) 25mm, 1.7mm thick upvc conduit pipes complete with boxes and other accessories using 3 x 4mm <sup>2</sup> single core pvc insulated copper cable in radial circuit with earthing for a/c, water heater, and 15A SSO power circuits. II  <b>Accessories for general power installations.</b> Accessories; Lighting switches; as specified rate to include galvanized steel knock-out boxes set in mortices in wall; <b>Supply and fix the following flush switches in compliance to BS Standard. 13A (BS1363), 15A (BS546), 20A (BS5733)</b>			0.00 0.00	12 Nr 4 Nr	0.00 0.00
<b>E</b>	13A, Twin switch socket with white moulded cover PVC plate for base power. I  13A, Single switch socket with white moulded cover PVC plate for base power. II  20A double pole switch with noen indicator and earth connection with Air Conditioning Marking for A/C Control units. III	LEGRAND LEGRAND LEGRAND		0.00 0.00 0.00	7 Nr 5 Nr 5 Nr	0.00 0.00 0.00
<b>SUB TOTAL CARRY FORWARD</b>						<b>0.00</b>

**BILL NO 4:-MAIN BUILDING LIGHTING AND POWER INSTALLATION CONT'D**

ITEM	DESCRIPTION	MAKE	UNIT RATE		QTY	TOTAL COST =N=
			DELIVERED	FIXED		
			=N=	=N=		
	<b>SUB TOTAL BROUGHT FORWARD</b>					<b>0.00</b>
<b>F</b>	<b><u>Distribution Boards (ABB)</u></b>					
I	6-way 32A TP MCB distribution board c/w 32A TP integral isolator & 18 Nos. 6kA SP breakers and 32A Residual Current Device with 300mA tripping Sensitivity Dedicated for Lighting and Power Distribution.	ABB		0.00	1 Nr	0.00
<b>G</b>	<b><u>Feeder Cable</u></b>					
I	4C 10mm <sup>2</sup> PVC Insulated Copper Cable from LV Panel to Distribution Board.	Coleman		0.00	60 m	0.00
II	1C 10mm sq PVC/PVC Earth Cable for the above.	Coleman		0.00	60 m	0.00
III	Allow for miscellaneous and cabling accessories.				Lots	15,000.00
<b>Bill no.4 summary page</b>						<b>15,000.00</b>



**BILL NO 5:-GENERATOR BUILDING LIGHTING AND POWER INSTALLATION**

ITEM	DESCRIPTION	MAKE	UNIT RATE		QTY	TOTAL COST =N=
			DELIVERED	FIXED		
			=N=	=N=		
<b>A</b>	<b><u>Lighting Wiring Points</u></b> <b><u>Conduit and cable trunking</u></b> Cables and wirings are only applicable where fittings are to be installed lighting points and extractor fans with rigid (dignity) 20mm upvc conduit pipes complete with boxes and other accessories using 3 x 1.5mm <sup>2</sup> single core pvc insulated copper cable.			0.00	2 Nr	0.00
<b>B</b>	<b><u>Luminaries and Fittings</u></b> I Cosmon IP65 2 X 26W Ceiling Light.		0.00	0.00	2 Nr	0.00
<b>C</b>	<b><u>Accessories</u></b> Accessories; Lighting switches; as specified rate to include galvanized steel knock-out boxes set in <b>Supply and fix the following flush switches in compliance to BSEN60669</b>					
	I 10A one gang one way switch.	LEGRAND		0.00	1 Nr	0.00
<b>D</b>	<b><u>Socket &amp; AC Wiring Points</u></b> 13A socket outlet points with rigid (dignity) 25mm, 1.7mm thick upvc conduit pipes complete with boxes and other accessories using 3 x 2.5mm <sup>2</sup> single core pvc insulated copper cable in ring mains circuit with earthing for base/clean power circuits.			0.00	1 Nr	0.00
	<b>Accessories for general power installations.</b> Accessories; Lighting switches; as specified rate to <b>Supply and fix the following flush switches in compliance to BS Standard. 13A (BS1363), 15A (BS546), 20A (BS5733)</b>					
<b>E</b>	I 13A, Twin switch socket with white moulded cover PVC plate for base power.	LEGRAND		0.00	1 Nr	0.00
<b>F</b>	<b><u>Distribution Boards (ABB)</u></b> I 6-way 20A SP MCB distribution board c/w 20A SP integral isolator & 6 Nos. 3kA SP breakers and 20A Residual Current Device with 100mA tripping Sensitivity Dedicated for Lighting and Power Distribution.	ABB		0.00	1 Nr	0.00
<b>G</b>	<b><u>Feeder Cable</u></b> I 2C 4mm <sup>2</sup> PVC Insulated Copper Cable from LV Panel to Generator Distribution Board.	Coleman		0.00	10 m	0.00
	II 1C 4mm sq PVC/PVC Earth Cable for the above.	Coleman		0.00	10 m	0.00
	III Allow for miscellaneous and cabling accessories.				Lots	
<b>Bill no.5 summary page</b>						<b>0.00</b>

**BILL NO 6:-GATEHOUSE BUILDING LIGHTING AND POWER INSTALLATION**

ITEM	DESCRIPTION	MAKE	UNIT RATE		QTY	TOTAL COST =N=
			DELIVERED	FIXED		
			=N=	=N=		
<b>A</b>	<b><u>Lighting Wiring Points</u></b> <b><u>Conduit and cable trunking</u></b> Cables and wirings are only applicable where fittings are to be installed lighting points and extractor fans with rigid (dignity) 20mm upvc conduit pipes complete with boxes and other accessories using 3 x 1.5mm <sup>2</sup> single core pvc insulated copper cable.			0.00	4 Nr	0.00
<b>B</b>	<b><u>Luminaries and Fittings</u></b> I 15W 4000K Recessed Light. I 12W 4000K Recessed Light. III Extractor Fan Power Termination.			0.00 0.00 0.00	2 Nr 1 Nr 1 Nr	0.00 0.00 0.00
<b>C</b>	<b><u>Accessories</u></b> Accessories; Lighting switches; as specified rate to include galvanized steel knock-out boxes set in mortices in wall; <b>Supply and fix the following flush switches in compliance to BSEN60669</b>					
	I 10A one gang one way switch.	LEGRAND		0.00	2 Nr	0.00
<b>D</b>	<b><u>Socket &amp; AC Wiring Points</u></b> I 13A socket outlet points with rigid (dignity) 25mm, 1.7mm thick upvc conduit pipes complete with boxes and other accessories using 3 x 2.5mm <sup>2</sup> single core pvc insulated copper cable in ring mains circuit with earthing for base/clean power circuits.  II 20A socket outlet points with rigid (dignity) 25mm, 1.7mm thick upvc conduit pipes complete with boxes and other accessories using 3 x 4mm <sup>2</sup> single core pvc insulated copper cable in radial circuit with earthing for a/c, water heater, and 15A SSO power circuits. <b>Accessories for general power installations.</b> Accessories; Lighting switches; as specified rate to include galvanized steel knock-out boxes set in mortices in wall; <b>Supply and fix the following flush switches in compliance to BS Standard. 13A (BS1363), 15A (BS546), 20A (BS5733)</b>			0.00 0.00	1 Nr 1 Nr	0.00 0.00
	I 13A, Twin switch socket with white moulded cover PVC plate for base power. II 20A double pole switch with noen indicator and earth connection with Air Conditioning Marking for A/C Control units.	LEGRAND LEGRAND		0.00 0.00	1 Nr 1 Nr	0.00 0.00
<b>F</b>	<b><u>Distribution Boards (ABB)</u></b> I 8-way 45A SP MCB distribution board c/w 45A SP integral isolator & 6 Nos. 3kA SP breakers and 45A Residual Current Device with 100mA tripping Sensitivity Dedicated for Lighting and Power Distribution.	ABB		0.00	1 Nr	0.00
<b>G</b>	<b><u>Feeder Cable</u></b> I 2C 16mm <sup>2</sup> PVC Insulated Copper Cable from LV Panel to Generator Distribution Board. II 1C 16mm sq PVC/PVC Earth Cable for the above. III Allow for miscellaneous and cabling accessories.	Coleman Coleman		0.00 0.00	30 m 30 m Lots	0.00 0.00
<b>Bill no.6 summary page</b>						<b>0.00</b>

**BILL NO 7:-PUMP HOUSE LIGHTING AND POWER INSTALLATION**

ITEM	DESCRIPTION	MAKE	UNIT RATE		QTY	TOTAL COST =N=
			DELIVERED	FIXED		
			=N=	=N=		
<b>A</b>	<b><u>Lighting Wiring Points</u></b> <b><u>Conduit and cable trunking</u></b> Cables and wirings are only applicable where fittings are to be installed lighting points and extractor fans with rigid (dignity) 20mm upvc conduit pipes complete with boxes and other accessories using 3 x 1.5mm <sup>2</sup> single core pvc insulated copper cable.			0.00	1 Nr	0.00
<b>B</b>	<b><u>Luminaries and Fittings</u></b> I 18W 4000K Recessed Light.			0.00	1 Nr	0.00
<b>C</b>	<b><u>Accessories</u></b> Accessories; Lighting switches; as specified rate to include galvanized steel knock-out boxes set in mortices in wall; <b>Supply and fix the following flush switches in compliance to BSEN60669</b>					
I	10A one gang one way switch.	LEGRAND		0.00	1 Nr	0.00
<b>D</b>	<b><u>Socket &amp; AC Wiring Points</u></b> 13A socket outlet points with rigid (dignity) 25mm, 1.7mm thick upvc conduit pipes complete with boxes and other accessories using 3 x 2.5mm <sup>2</sup> single core pvc insulated copper cable in ring mains circuit with earthing for base/clean power circuits.			0.00	1 Nr	0.00
	<b>Accessories for general power installations.</b> Accessories; Lighting switches; as specified rate to include galvanized steel knock-out boxes set in mortices in wall; <b>Supply and fix the following flush switches in compliance to BS Standard. 13A (BS1363), 15A (BS546), 20A (BS5733)</b>					
I	13A, Twin switch socket with white moulded cover PVC plate for base power.	LEGRAND		0.00	1 Nr	0.00
II	15A Switch Socket for Digital Scale.	LEGRAND		0.00	2 Nr	0.00
III	20A Double Pole Switch for Borehole.	LEGRAND		0.00	1 Nr	0.00
<b>F</b>	<b><u>Distribution Boards (ABB)</u></b>					
I	6-way 20A SP MCB distribution board c/w 20A SP integral isolator & 6 Nos. 3kA SP breakers and 20A Residual Current Device with 100mA tripping Sensitivity Dedicated for Lighting and Power Distribution.	ABB		0.00	1 Nr	0.00
<b>G</b>	<b><u>Feeder Cable</u></b>					
I	2C 16mm <sup>2</sup> PVC Insulated Copper Cable from LV Panel to Generator Distribution Board.	Coleman		0.00	70 m	0.00
II	1C 16mm sq PVC/PVC Earth Cable for the above.	Coleman		0.00	70 m	0.00
III	Allow for miscellaneous and cabling accessories.				Lots	
<b>Bill no.7 summary page</b>						<b>0.00</b>

**BILL NO 8:- DATA , SURVEILLANCE AND CAT SYSTEMS INSTALLATION**

ITEM	DESCRIPTION	MAKE	UNIT RATE		QTY	TOTAL COST =N=
			DELIVERED =N=	FIXED =N=		
<b>A</b>	<b><u>Fire Alarm System</u></b>					
I	4 Zone Fire Alarm Panel	Ctec		0.00	1 Nr	0.00
II	Smoke Detector.	Ctec		0.00	7 Nr	0.00
III	Break Glass.	Ctec		0.00	2 Nr	0.00
IV	Fire Alarm Bell.	Ctec		0.00	2 Nr	0.00
V	<b>Ventcroft Noburn:</b> 3-Core x 1.5mm <sup>2</sup> Fire Alarm Cable (Fire Retardant). (300m per roll).			0.00	1 Roll	0.00
VI	25mm Dignity Pipe and Accessories.			0.00	4 Bundle	0.00
VII	<b>Programming and commissioning.</b>				Lots	
<b>Bill no.6 summary page</b>						<b>0.00</b>

**BILL NO 9:- LIGHTNING PROTECTION AND EARTHING SYSTEM INSTALLATION**

ITEM	DESCRIPTION	MAKE	UNIT RATE		QTY	TOTAL COST =N=
			DELIVERED	FIXED		
			=N=	=N=		
<b>A</b>	<b><u>LIGHTNING PROTECTION SYSTEM</u></b>					
I	25*3 Insulated Copper Tape.	FURSE		0.00	25 m	0.00
II	Allow for Welding of Canopy Columns to Tape.				Lot	
III	500mm Air Terminal Rod c/w multiple spikes.	FURSE		0.00	2 Nr	0.00
IV	Saddle Clips.	FURSE		0.00	10 Nr	0.00
V	Tape to Tape Clamp	FURSE		0.00	3 Nr	0.00
VI	Plastic Inspection pit.	FURSE		0.00	2 Nr	0.00
VII	16mm earth rod - 1.2m including spike/driving stud/coupler.	FURSE		0.00	4 Nr	0.00
VIII	Earth Rod Clamp, 15mm to 20mm for 25 x 3mm Tape.			0.00	4 Nr	0.00
IX	1C x 25mm sq Earth Conductor.	Coleman		0.00	20 m	0.00
<b>B</b>	<b><u>EARTHING SYSTEM</u></b>					
I	1C x 25mm sq Earth Conductor.	Coleman		0.00	120 m	0.00
II	1C x 10mm sq Earth Conductor for LPG Tanks.	Coleman		0.00	30 m	0.00
III	1C x 6mm sq Earth Conductor for StreetLight Poles.	Coleman		0.00	40 m	0.00
IV	Plastic Inspection pit.	FURSE		0.00	2 Nr	0.00
V	16mm earth rod - 1.2m including spike/driving stud/coupler.	FURSE		0.00	4 Nr	0.00
VI	Allow for Exothermic Welding.				Lots	
VII	Truck Earth System.			0.00	1 Nr	0.00
VIII	Allow for miscellaneous, cabling accessories and ceiling rose.				Lots	
<b>Bill No.9 to Summary Page</b>						<b>0.00</b>

**SUMMARY PAGE**

ITEM	DESCRIPTION	TOTAL
		=N=
1.00	Low Voltage Power Supply Installation	0.00
2.00	Alternative Power Supply Installation	0.00
3.00	External Lighting Installation	0.00
4.00	Main Building Floor Lighting and Power Installation	
5.00	Generator Building Floor Lighting and Power Installation	0.00
6.00	Gatehouse Building Floor Lighting and Power Installation	0.00
7.00	Pump Building Floor Lighting and Power Installation	0.00
8.00	Voice & Data, CCTV, CAT TV & Fire Installation	0.00
9.00	Lightning, Earthing and Bonding Installation	0.00
<p><b>NOTE</b>                      PC sum and contingencies items can be omitted without compensation to the sub-contractor.</p>		
<b>TOTAL</b>		<b>0.00</b>

Amount in Words:

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Signed:

For and on behalf of :

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**BILL NR 11:**

**LPG PLANT EXTERNAL WORKS**

S/N	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>PROPOSED L.P.G PLANT FOR IBILE OIL AND GAS CORPORATION ALONG EBUTE-IGBAJO ROAD, MABADEJE STREET, IKORODU LOCAL GOVERNMENT AUTHORITY, LAGOS STATE.</u>				
	<b>BILL NR 11: EXTERNAL WORKS</b>				
	<b>PERIMETER FENCE WORK</b>				
	<u>New "L" shape fence @2.1m high on Strip &amp; Pad footing</u>				
	<b>EXCAVATION AND EARTHWORK</b>				
A	Excavate pit for column bases concrete commencing from ground level and not exceeding 2.00m deep	20	m3	-	-
B	Excavate trench to receive foundation concrete commencing from ground level and not exceeding 2.00m deep	34	m3	-	-
C	Level and compact bottom of excavation to receive blinding.	60	m2	-	-
	<b>CONCRETE WORK</b>				
D	50mm blinding (1:10) in foundation and bases	60	m2	-	-
	<u>Plain in-situ concrete developing minimum works strength of 20N/mm2 at 28 days filled into formwork and vibrated in:-</u>				
E	Foundation; 150mm thick	9	m3	-	-
	<u>Reinforced in-situ concrete developing minimum works strength of 20N/mm2 at 28 days filled into formwork and vibrated in:-</u>				
F	Column bases and starter	1	m3	-	-
	<b>REINFORCEMENT</b>				
G	12mm Diameter high tensile steel bar in; Column bases	52	Kg	-	-
H	12mm Diameter high tensile steel bar in; Column starter	31	Kg	-	-
J	10mm; Ditto	23	Kg	-	-
	<b>FORMWORK</b>				
	<u>Sawn formwork to:-</u>				
K	Face of column starters	2	m2	-	-
	<b>BLOCK WALL IN SUB-STRUCTURE</b>				
	<u>225mm hollow filled solid sandcrete block wall in:</u>				
L	Foundation walls	58	m2	-	-
M	Foundation walls; positioned as columns	10	m2	-	-
	<b>SUB-STRUCTURAL WORKS</b>				
	Carried to collection				-



S/N	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>WALLS</b>				
	<u>Vibrated sandcrete hollow block walling in:-</u>				
A	225mm blockwall	82	m2		-
B	Ditto; positioned as columns	27	m2		-
	<b>CONCRETE COLUMNS</b>				
	<u>Reinforced in-situ concrete developing minimum works strength of 20N/mm2 at 28 days filled into formwork and vibrated in:</u>				
C	Columns; for entrance/exit gates	1	m3		-
	<b>REINFORCEMENT</b>				
D	12mm Diameter high tensile steel bar in; Column starter	76	Kg		-
E	10mm; Ditto	45	Kg		-
	<b>FORM WORK</b>				
F	Formwork to sides of Columns	4	m2		-
	<b>WALL FINISHES</b>				
	<u>15mm Cement and sand (1:4) rendering on:-</u>				
G	Walls; <i>existing internal walls &amp; both sides of new walls</i>	417	m2		-
	<b>PAINTING AND DECORATING</b>				
H	Prepare and apply two coats of approved emulsion paint on rendered walls; on rendered walls	417	m2		-
	<b>Concrete Coping</b>				
J	450mm wide x 75mm thick concrete coping; complete including associated formworks and reinforcement; on perimeter fence; generally	161	m		-
	<b>Metal Fence Grille</b>				
K	1500mm average height metal fence grille on blockwall/concrete; 50mm x 50mm hollow square pipe vertically spaced at 150mm c/c and horizontally crossed at two points, painted with 3 coats of approved gloss paint and a base coat of red oxide paint. (See Architect's details)	30	m		-
	<b>Entrance/Exit Gate</b>				
L	6200mm x 1500mm high; hinged collapsible metal gate; consisting of hollow round/square pipes vertically spaced at 150mm c/c and horizontally crossed at surrounding and intermediate points, painted with 3 coats of approved gloss paint and a base coat of red oxide paint. (See Architect's details)	2	Nr.		-
	<b>WALLS</b>				
	Carried to collection				-
	<b>COLLECTIONS</b>				
	PAGE 1				-
	PAGE 2				-
	<b>PERIMETER FENCE WORK</b>				
	Carried to Summary				-

S/N	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>LPG PLANT PAVED SITE SURFACES AND DRIVE WAYS</u></b>				
	<b><u>PAVED REINFORCED CONCRETE, INTERLOCK PAVING STONE SURFACE AND GRANITE STONES</u></b>				
	<b><u>EXCAVATION AND EARTHWORK</u></b>				
A	Excavate top vegetable soil average 150mm deep.	1,802	m2		-
B	Level and compact surface of excavation to receive blinding.	1,802	m2		-
C	Ditto; externally; between front fence line and covered drain	63	m2	-	-
	<b><u>CONCRETE PAVING</u></b>				
D	150mm washed hand-picked boulder in single layer; well compacted and consolidate to received concrete blinding (measured separately)	320	m2		-
E	Fabric mesh A142 in 250mm oversite concrete slab	320	m2	-	-
F	50mm blinding (1:10) neatly spread and consolidated on boulders, including preparing surface to receive concrete paving (measured separately)	320	m2	-	-
	<b><u>Reinforced in-situ concrete developing minimum works strength of 20N/mm2 at 28 days filled into formwork and vibrated in:</u></b>				
G	100mm thick Concrete Paving in entrance driveway areas; Including 200mm thick off-loading truck bay as shown in the layout	36	m3	-	-
H	Formwork; to sides of concrete paved surface; 100-200mm high	157	m	-	-
	<b><u>INTERLOCK PAVING STONE SURFACE</u></b>				
J	80mm concrete interlocking paving stone well laid on blinded surface including 100mm thick river source sharp sand filling; in making up levels and well compacted; according to manufacturer's instruction; <i>in walkways and exit driveway areas</i>	288	m2		-
	<b><u>GRANITE CHIPPINGS</u></b>				
K	Fill in with sharp sand and spread 55mm thick granite chippings	926	m2		-
	<b><u>Kerbs: 150 x 350mm half battered kerb in convenient lengths bedded and jointed in cement and sand mortar(1:4); straight and curved</u></b>				
L	Kerbs; laid to guide interlocking stones	185	m		-
	<b><u>GREEN AREA</u></b>				
	<b><u>150mm layer of approved imported black vegetable soil mixed with manure bring to an even surface and rake to fine tilt including remove all stones, weeds, e.t.c and plant out selected flowers and well watering, tendering and maintenance.</u></b>				
M	Crated grass internally in; <i>Parking area</i>	233	m2		-
N	Ditto externally; <i>between front fence line and covered drain</i>	63	m2	-	-
	<b><u>GUIDE RAILS</u></b>				
P	700mm high average high guide rail network fixed to concrete floor; fabricated with 75mm diameter galvanized steel round pipe; painted with 2 coats of approved gloss paint and a base coat of red oxide paint. (See Architect's layout details)	50	m		-
	<b>LPG PLANT PAVED SITE SURFACES AND DRIVE WAYS</b>				
	<b>Carried to Summary</b>				-

S/N	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>EXTERNAL WORKS SERVICES</b>				
	<b>INSPECTION CHAMBERS</b>				
A	Inspection chamber size 600 x 600 x 1000mm deep internally constructed of 100mm plain in situ concrete (1:3:6-19mm aggregate) bed and 150mm hollow sandcrete blockwork a.b.d. capped with 75mm precast concrete (1:2:4-19mm agg) cover slab reinforced with single layer BRC Nr65 mesh wire reinforcement and with 230mm(average) concrete 1:3:6 benching and forming 150mm diameter half-round channel in same and rendering in sides of manhole in cement-sand 1:5 including all necessary excavation and earthworks	7	Nr		-
	<b>SEPTIC TANK</b>				
B	Septic tank size 2700mm x 2000mm x 1800mm deep (average) internally constructed of 150mm plain insert concrete grade 15 base, reinforced concrete columns and beams, 255mm hollow sandcrete blockwork filled solid with plain concrete capped with 175mm thick concrete grade 20 cover slab reinforced with 12mm diameter high tensile reinforcement at 150mm centres both ways with 225mm (average) concrete grade 15, benching and forming 150mm half round diameter in and same rendering on sides in water proof cement mortar (1:3) with and including all necessary excavation earthwork and formwork, etc	1	Nr		-
	<b>SOAK AWAY PIT</b>				
C	Soakaway pit; size 2000mm x 2000mm x 1800mm deep (average) internally constructed of 150mm plain insert concrete grade 15 base, reinforced concrete columns and beams; 255mm hollow sandcrete blockwork filled solid with plain concrete capped with 175mm thick concrete grade 20 cover slab reinforced with 12mm diameter high tensile reinforcement at 150mm centres both ways with 225mm (average) concrete grade 15, benching and forming 150mm half round diameter in and same rendering on sides in water proof cement mortar (1:3) with and including all necessary excavation earthwork and formwork, etc	1	Nr		-
	<b>REINFORCED CONCRETE COVERED DRAINAGE</b>				
D	Covered drain; size 650 x 900mm deep constructed of 125mm thick reinforced in situ concrete(1:2:4) sides and 150mm reinforced in-situ concrete ditto bed and capped with 150mm thick slab and left fair on all exposed areas including all necessary earthworks; excavation and disposal. Covered with reinforced concrete slab at entrance/exit areas and fabricated steel cover in other areas	-	m		-
	<b>EXTERNAL WORKS SERVICES</b>				
	Carried to collection				-





**PROJECT GENERAL SUMMARY**

<b><u>PROPOSED L.P.G PLANT FOR IBILE OIL AND GAS CORPORATION ALONG EBUTE-IGBAJO ROAD, MABADEJE STREET, IKORODU LOCAL GOVERNMENT AUTHORITY, LAGOS STATE.</u></b>			
<b><u>GENERAL SUMMARY</u></b>			
A	BILL NR 1: PRELIMINARIES		
B	BILL NR 2: ADMINISTRATIVE BUILDING		-
C	BILL NR 3: CYLINDER FILLING SHED		-
D	BILL NR 4: PUMP HOUSE		-
E	BILL NR 5: LPG STORAGE TANK		-
F	BILL NR 6: OVER HEAD WATER STORAGE TANK		-
G	BILL NR 7: GENERATOR HOUSE		-
H	BILL NR 8: GATE HOUSE		
J	BILL NR 9: PLUMBING & MECHANICAL INSTALLATIONS		-
K	BILL NR 10: ELECTRICAL INSTALLATIONS		-
L	BILL NR 11: EXTERNAL WORKS		-
<b>SUB-TOTAL</b>			<b>-</b>
<b><u>ADD</u></b>			
M	CONTINGENCIES Allow a sum of N1,000,000.00 to be expended as directed by the Client or Consultants and deducted in whole if not expended		
N	VAT	7.5%	-
<b>TOTAL COST ESTIMATE</b>			<b>-</b>