

<b>STUDIO UPGRADE BILL OF QUANTITIES- JULY 2019.</b>					
<b>ELEMENT NO .1: PRELIMINARIES</b>					
		<b>Unit</b>	<b>Qty</b>	<b>Rate Kshs</b>	<b>Total Kshs</b>
A	Allow for staff Insurance	SUM	1		
B	Progress chart	SUM	1		
C	Samples	SUM	1		
D	Premises cleaning and keeping it tidy	SUM	1		
E	Any other describe	SUM	1		
<b>ELEMENT NO .2: DEMOLITIONS</b>					
A	Carefully demolish 200 mm thick stone wall. Make good affected areas	SM	23		
B	Carefully remove the entrance door with associated frames and make good affected areas . Replace door with masonry wall	No	1		
C	Carefully remove the glass windows and replace with masonry wall. Make good affected areas	No	4		
<b>ELEMENT NO .3 : ACOUSTIC WALL PARTITIONS</b>					
A	Construction of acoustic wall petitions as per details figure 1				
Construction of 240 mm wall as per details of A1-A7					
Using vertical 100 x 50 mm timber studs spaced at 600 mm and 100 X 50 mm horizontal members spaced at 1200 mm , 12 mm gypsum on one side and double 12 mm gypsum layer on the other side sandwiched by 100 mm thick 1200 x 600 fiber wool. Gypsum joints will be taped with fiber tape and skimmed.					
	A1	SM	16		
	A2	SM	7		
	A3	SM	8		
	A4	SM	8		
	A5	SM	7		
	A6	SM	8		
	A7	SM	8		
	Fix 150 X 25 mm skirting board to all walls	LM	23		
B	Construction of 372 mm wall as per details of figure 2 ( C1-C6)				
Using vertical 100 x 50 mm timber studs spaced at 600 mm and 100 X 50 mm horizontal members spaced at 1200 mm , 9 mm gypsum on one side and 12 mm gypsum layer glued on an 18 mm MDF on the other side sandwiched by 100 mm thick 1200 x 600 fiber wool. A second similar wall comprising 9 mm gypsum on one side and double 12 mm gypsum layer on the other side sandwiched by 100 mm thick 1200 x 600 fiber wool. The 2 walls are separated by an airgap of 100 mm.Gypsum joints will be taped with fiber tape and skimmed.					
	C1	SM	7		
	C2	SM	7		
	C3	SM	8		
	C4	SM	8		
	C5	SM	7		
	C6	SM	7		

	C7	SM	5		
	Fix 150 X 25 mm skirting board to all walls	LM	18		
C	Construction of 370 mm wall as per details of figure 3 ( B1-B4)				
	Using vertical 100 x 50 mm timber studs spaced at 600 mm and 100 X 50 mm horizontal members spaced at 1200 mm , 9 mm gypsum on one side and double 12 mm gypsum layer on the other side sandwiched by 100 mm thick 1200 x 6.00 fiber wool. 2 of these walls are sandwiched by a 100 mm air gap. Gypsum joints will be taped with fiber tape and skimmed.				
	B1	SM	8		
	B2	SM	8		
	B3	SM	8		
	B4	SM	8		
	Fix 150 X 25 mm skirting board to all walls	LM	12		
D	Construction of acoustic wall partitions as per details figure 4				
	Construction of 240 mm wall as per details of E1-E4				
	Using vertical 100 x 50 mm timber studs spaced at 600 mm and 100 X 50 mm horizontal members spaced at 1200 mm , 12 mm gypsum on one side and double 12 mm gypsum layer .on the other side sandwiched by 100 mm thick 1200 x 600 fiber wool. Gypsum joints will be taped with fiber tape and skimmed.				
	E1	SM	26		
	E2	SM	22		
	E3	SM	25		
	E4	SM	18		
	Fix 150 X 25 mm skirting board to all walls	LM	30		
E	Supply and install 6 mm thick acoustic fabric in the TV studios				
	Using appropriate glue and approved texture and colours install a 6 mm thick acoustic fabric				
	E1	SM	26		
	E2	SM	22		
	E3	SM	25		
	E4	SM	18		
F	Construct the following walls using 2 X 18 mm MDF boards sandwiched by a timber frameworks of 100 x 100 cypress timber as per details				
	F1	SM	6		
	F2	SM	7		
	F3	SM	12		
	F4	SM	9		
	Fix 150 X 25 mm skirting board to all walls	LM	12		
	<b>ELEMENT NO.4: DOORS</b>				
	<b>INTERNAL ACOUSTIC DOORS</b>				

A	86 mm thick door 900 x 2100 high constructed with 2 layers of 18 mm MDF and 12 mm Plywood on one side and a similar layer on the other side sandwiched by 25 mm compact foam as per drawing . Includes a 200 x 500 x 8 mm laminated glass window as per drawing	No.	8		
	Frames and finishing				
B	125 X 100 mm door frame	LM	48		
C	100 X 25 architrave	LM	96		
<b>IRON MONGERY</b>					
	Supply and fix the following				
D	100 X 75 medium density brass butts	No.	24		
E	3 lever mortice lock with brass handles	No.	8		
F	Black rubber floor mounted doorstop	No.	8		
G	Door closers	No.	8		
	Three coats of clear varnish				
H	General Surfaces of wood externally	SM	16		
	General Surfaces of wood internally	SM	16		
I	Surfaces 200-300 mm girth	LM	48		
J	Surfaces 0-100 mm girth	LM	96		
<b>ELEMENT NO. 5: DOORS</b>					
<b>ACOUSTIC DOORS FOR CONTROL ROOMS AND VERANDER</b>					
A	61 mm thick door 900 x 2100 high constructed with 2 layers of 18 mm MDF sandwiched by 25 mm compact foam as per drawing . Double Clear 6 mm laminated glass to cover 50 % of the door height.	No.	3		
	Frames and finishing				
B	125 X 75 mm door frame	LM	18		
C	50 X 25 architrave	LM	36		
<b>IRON MONGERY</b>					
	Supply and fix the following				
D	100 X 75 medium density brass butts	No.	9		
E	3 lever mortice lock with brass handles	No.	3		
F	Black rubber floor mounted doorstop	No.	3		
G	Door closers	No.	3		
	Three coats of clear varnish				
H	General Surfaces of wood externally	SM	4		
	General Surfaces of wood internally	SM	4		
I	Surfaces 200-300 mm girth	LM	11		
J	Surfaces 0-100 mm girth	LM	22		
<b>ELEMENT NO. 6: OFFICE DOORS</b>					
<b>OFFICE DOORS FOR OFFICE , STORE, LOBBY &amp; SERVER ROOM</b>					
A	Supply and fix 2100 x 900 mm mahogany 4 panel door	No.	3		
	Frames and finishing				
B	125 X 75 mm door frame	LM	18		

C	50 X 25 architrave	LM	36		
<b>IRON MONGERY</b>					
Supply and fix the following					
D	100 X 50 medium density brass butts	No.	9		
E	3 lever UNION mortice lock with brass handles	No.	4		
<b>ELEMENT NO. 7: EXTERNAL DOORS</b>					
<b>SOLID METAL BURGLAR DOOR AT THE RAMP</b>					
A	900 x 2100 high Solid metal burglar door as per approval.	No	1		
IRON MONGERY					
Supply and fix the following					
B	3 lever mortice lock with brass handles	No.	1		
<b>ELEMENT NO. 8: WINDOWS ( RADIO STUDIOS )</b>					
A	Carefully remove the existing window panes for the 1230 x 1360 windows on the outside back wall	No.	4		
B	Upgrade the existing windows to acoustic windows by installing a double glazed 8 mm laminated glass on the outer side and 6 mm glass on the inside. Place drying agent inside glass enclosed areas as per drawing.	No.	4		
C	1000 X 900 mm double glazed acoustic windows using 8 mm laminated glass on 1 side and 6 mm laminated glass on the other inside. ( For radio studios, video and sound control rooms)	No.	6		
Mahogany Frames and finishing for A above					
C	200 X 50 mm window frame	LM	40		
D	50 X 25 architrave for windows	LM	40		
Mahogany Frames and finishing for B above					
E	200 X 50 mm window frame	LM	48		
F	50 X 25 architrave for windows	LM	48		
<b>ELEMENT NO.9</b>					
<b>Acoustic floors</b>					
A	Supply and install 6 mm thick acoustic carpet underlay	SM	130		
B	Supply and install 6 mm thick acoustic carpet	SM	130		
	Supply and install Acoustic floor vinyl(pranks) 1219x 1778 x 3 mm for veranda	SM	12		
<b>ELEMENT NO. 10 LIGHTING GRID AND SUPPORT</b>					
A	Fabricate , supply and install 32 X 3 mm ( 42 mm outside diameter) CHS Lighting grid using M10 x 125 mm bolts as per drawing	LM	144		
B	Supply and fix 100 x 100 x 3mm SHS for lighting Grid support as per drawing	LM	36		
C	Supply and fix 75 x 50 x 3mm RHS for lighting Grid support as per drawing	LM	78		
D	Supply and fix 50 x 50 x 3mm SHS for lighting Grid support as per drawing	LM	54		

C	Supply and fix 30 x 30 x 3mm SHS for lighting Grid support as per drawing	LM	78		
E	Fix the lighting grid on to the grid support using M12 X 400 mm full threaded rod as per drawing	SUM	1		
<b>ELEMENT NO. 11 ACOUSTIC CEILING</b>					
<b>TV STUDIO</b>					
A	Remove the existing ceiling boards without disturbing the existing timber structure	SM	72		
B	Supply and fix 2400 x 1200, 12 mm thick Gypsum board as per drawing. Gypsum joints will be taped with fiber tape and skimmed.	SM	72		
C	Supply and fix 1200 x 600 mm, 100 mm thick fiber wool as per drawing	SM	72		
D	Supply and install 600 x 600 x 15 mineral fiber tiles for the suspended ceiling as per drawing	SM	72		
<b>RADIO STUDIOS AND OTHER AREAS</b>					
E	Supply materials and construct acoustic ceiling for radio studios as per details. Gypsum joints will be taped with fiber tape and skimmed.	SM	56		
F	Supply and install 600 x 600 x 15 mineral fiber tiles for the veranda suspended ceiling.	SM	12		
G	Supply and install 600 x 600 x 15 mineral fiber tiles for the office suspended ceiling	SM	9		
H	Supply and install 600 x 600 x 15 mineral fiber tiles for the TV control room	SM	14		
G	Supply and install 600 x 600 x 15 mineral fiber tiles for the sound control room suspended ceiling.	SM	6		
H	Supply and install 600 x 600 x 15 mineral fiber tiles for the lobby suspended ceiling.	SM	9		
I	Supply and install 600 x 600 x 15 mineral fiber tiles for the store suspended ceiling.	SM	13		
J	Supply and install 600 x 600 x 15 mineral fiber tiles for workshop suspended ceiling.	SM	5		
K	Supply and install 600 x 600 x 15 mineral fiber tiles for the server room veranda suspended ceiling.	SM	12		
<b>ELEMENT NO.12 Operational desks</b>					
A	Allow for Radio studio operation desks	SETS	5		
<b>ELEMENT NO.13 ACOUSTIC PANNELS FOR RADIO STUDIO WALLS</b>					
A	50 mm thick 1200 X 600 Acoustic panels as per drawings	No.	60		
<b>ELEMENT NO.14: GRILL</b>					
	<b>Construct a grill structure as per drawings including all iron mongery</b>	No	1		
<b>ELEMENT NO.15: RAMP</b>					
	Construct a ramp as per details including levelling of the area around to allow smooth movement.	SUM	1		
<b>ELEMENT NO.16: SERVER ROOM</b>					
A	Carefully demolish 200 mm thick stone wall. Make good affected areas	SM	2.5		

B	Carefully remove all other facilities that will be no longer required , toilets , basins etc.	LOT	1		
<b>ELEMENT NO. 17 PAINTING</b>					
A	Prepare and supply three coats silk vinyl emulsion paint to all gypsum walls in the Radio studios	SM	110		
B	Prepare and supply three coats silk vinyl emulsion paint to all plastered walls in the TV Control room	SM	24		
C	Prepare and supply three coats silk vinyl emulsion paint to all plastered walls in the Sound Control room	SM	5		
D	Prepare and supply three coats silk vinyl emulsion paint to all plastered walls in the store	SM	22		
E	Prepare and supply three coats silk vinyl emulsion paint to all plastered walls in the office	SM	13		
F	Prepare and supply three coats silk vinyl emulsion paint to all plastered walls in the lobby	SM	16		
G	Prepare and supply three coats silk vinyl emulsion paint to all plastered walls in the server room	SM	32		
<b>ELEMENT NO.18</b>					
<b>MECHANICAL AND ELECTRICAL INSTALLATIONS</b>					
A	Supply and install LG ductable 24,000 BTU R410 Split type Airconditioning system for TV studio	No.	2		
B	Supply and install LG ductable 24,000 BTU R410 Split type air-conditioning system for vision control room	No.	1		
C	Supply and install LG ductable 24,000 BTU R410 Split type air-conditioning system for Server Room	No.	1		
D	Supply and install LG ductable 18,000 BTU R410 Air conditioning system for Radio studios	No.	6		
E	Supply and install LG ductable 18,000 BTU R410 Air conditioning system for Audio control room	No.	1		
<b>F</b> <i>Supply, install, test and commission the following in accordance with specification BS 7671:2001</i>					
1	Lighting points comprising 20 watt 4ft LED Fluorescent fittings wired with 1.5mm <sup>2</sup> twin with earth enclosed in 20 mm PVC conduit including 1 gang switch , box and any other accessories.	25	no		
2	Lighting points for Veranda comprising 20 watt 4ft LED Fluorescent fittings wired with 1.5mm <sup>2</sup> twin with earth enclosed in 20 mm PVC conduit including 1 gang switch , box and any other accessories. Include 2 way switching	3	no		
3	Type EXIT Lights wired wired with 1.5mm <sup>2</sup> twin with earth enclosed in 20 mm PVC conduit including 1 gang switch , box and any other accessories.	5	No.		
4	Power point comprising 13A twin switched Clean Power socket outlet complete with box and ring main wiring with 3 x 2.5 sq mm sc PVC cables	25			

5	Power point comprising 13A single switched utility power socket outlet complete with box and ring main wiring with 3 x 2.5 sq mm sc PVC cable	16	No		
6	Power point comprising 20A Double pole switch with pilot lamp for aircon units wired with 3 x 2.5 sq mm sc PVC cable . Include switch box and other accessories	10	No.		
7	200mm x 50mm powder coated 3-compartment metal trunking complete with bends, earth straps and all fixing accessories	135	LM		
8	200 mmm powder coated plate for twin 13 A sockets	24	No.		
9	200 mmm powder coated plate for single 13 A sockets	24	No		
10	Flush mounting box suitable for 6 way TPN Distribution Board with 100 Amps integral isolator	2	No.		
11	a) 63 A TPN MCB	2	No.		
	b) 30A SP MCB	2	No.		
	c) 20A SP MCB	10	No.		
	d)5A SP MCB	3	No.		
	<b>FIRE DETECTING AND ALARM SYSTEM</b>				
12	Supply and install Analogue addressable photo/thermal fire alarm detector as <i>Menvier MAOH850 /Protec</i> approved equal complete with mounting base	10	No.		
13	Addressable fire alarm base sounder beacon with cover plate as <i>Menvier MAS870/Protec</i>	2	No.		
14	Fire alarm point wired in 1.5mm <sup>2</sup> 2C red fire rated cabling drawn in 20mm diameter concealed conduit	12	No.		
	<b>Total in Kenya shillings inclusive of VAT</b>				