EXTENSION OF ABLUTION BLOCK AND KITCHENETTE ,COLLABORATION ,INTERNATIONAL AND TRAINING CENTRE UNITS BOMET UNIVERSITY CONTRACT NO. BUC/OT/ACAD/11/2019-2020

SCHEDULE NO.1 - CONFERENCE HALL

Item	Description	Unit	Qty	Rate (Ksh)	Amount (Ksh)
	Supply, install, test and commission the following ;-				
					-
	<u>LIGHTING POINTS</u>				
1.01	Lighting points wired in 1.5 mm ² SC CU cables				
	drawn in concealed 20mm diameter HG P.V.C				
	conduits for:-				
	a) one way switching	No.	104		
	b) unswitched.	No.	2		
	SWITCHES				
1.02	10Amps, switch plate as Gilberts or approved				
	equivalent as				
	a) one gang one way	No.	22		
	b)one gang two way	No.	8		
	<u>LIGHTING FITTINGS</u>				
1.03	Lighting fittings complete with bulbs or tubes as				
	follows:-				
ļ	a) 600 x 600mm,37w,4300 lm,Standard Recessed				
	4000K 50,0000 lifetime hrs LED Panel Light ,as	No.	4		
	PHILLIPS or approved equivalent.				
	b)1200 x 300mm,30w,3129 lm,Standard Recessed	NT	20		
	4000K 50,0000 lifetime hrs LED Panel Light, as	No.	20		
	Thorn or approved equivalent.				
	c) Surface mounted circular LED downlight fitting				
	with 21W, 4000K, 2100lm, White body, IP44 as	No.	50		
	PHILLIPS Coreline or approved equivalent.				
	d) 1200mm, 3120 lm, 28W, 4000K LED Batten				-
	Luminaire as Thorn Poppark LED Batten or	No.	8		
	approved Equivalent	1 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 - 190 -			
	e) Security LED External light fitting, 50 W,IP65,				
	with integral high frequency movement and daylight		1.4		
	sensor as PHILLIPS or approved equivalent.	No.	14		
	bonder de 111221 e et approved equivalent				
	f) 5-Light pendant chandelier light fitting with bronze				
	finish as Micromark Langhan range or approved	No.	2		
	equivalent				
	g) 1x8Watts, Double sided LED EXIT emergency				
	lighting luminaire as THORN or approved	No.	2		
	equivalent.				
	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 1 CONT'D - CONFERENCE HALL.

Item	Description	Unit	Qty	Rate (Ksh)	Amount (Ksh)
	Supply, install, test and commission the following	;-			()
	CUPTOTAL DE EDOM PREMIONARIA				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	SOCKET OUTLETS AND OTHER POWER				
1.04	POINTS	-			
1.04	13 Amps socket outlet points wired ring comprising	1	1		
	of 3x2.5 mm sq. single core PVC copper cables drawn	No.	35		
	in concealed 25mm HG PVC conduits and PVC	1,0.			
1.05	Trunking.				
1.03	13 Amps. Moulded plate switched socket outlet white				
	in colour as BG, CLIPSAL or approved equivalent		1		
	a) twin.	NT-	1 20		
1.06	Waterproof floor socket boxes as Legrand or	No.	30		
1.00	approved equivalent	No.	5		
1.07	Ground level booster pump point comprising wiring	-	-		
1.07	in 2 - (2 DVC CC CVL - 11 1 - 1 DVC			1	
	in 3x6mm ² PVC-SC-CU cables in concealed PVC conduits	No.	1		
1.08					
1.08	20 Amps double pole switches with neon indicator as		_		
	CLIPSAL or approved equivalent for item above	No.	1		
1.09	Hogorool numn point commission 11 12 40 2				
1.05	Hosereel pump point comprising wiring in 3x4.0mm ²				
	PVC-SC-CU cables in concealed PVC conduits	No.	1	-	
1.1	20 Amns double water with the state of the s				
1.1	30 Amps double pole switches with neon indicator as				
	CLIPSAL or approved equivalent for items above.	No.	1		
1.11	Hand dries point commission :: : 2 2 5 2				
	Hand drier point comprising wiring in 3x2.5mm ²	No.	4		
1.12	PVC-SC-CU cables in concealed PVC conduits				
1.12	20 Amps double pole switches with neon indicator as				
	CLIPSAL or approved equivalent for items above	No.	4		
1.13	Instant shower point comprising wiring in 3x4mm ²	-			
	PVC-SC-CU cables in concealed PVC conduits	NT			
	rvc-sc-co capies in concealed PVC conduits	No.	4		
1.14	12W LED mirror lights as Phillips or approved				
	equivalent.	No.	4		
	20 Amps double pole switches with neon indicator as				
	CLIPSAL or approved equivalent for items above	No	,		
	CERT SITE of approved equivalent for items above	No.	4		
1.16	Cooker point comprising of 3x6mm ² PVC Copper				
1	cables drawn in concealed 25mm dia. HG PVC	No	1		
	conduits.	NO	1.		
	Cooker control unit complete with 13 Amps.				
	Switched socket outlet as THORN or approved	No	,		
	equivalent.	No	1		
	Cooker connection unit for item above.	No.	1		
	Supply and install air extract fans circuits wired using	110.	1		
	2x4mm2 PVC insulated copper cables drawn in 20				
ľ	nm diameter PVC heavy gauge conduits but	No.	2		
	excluding the 20 Amps DP switch.				
1.2 2	20 Amps double pole switches with neon indicator as				
la	CLIPSAL or approved equivalent for items above	No.	2	1	
		110.	۷		
-	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 1 CONT'D - CONFERENCE HALL.

T4	SCHEDULE NO. 1 CONTD - C		7	-	Amount (Vah)
Item	Description Supply install test and commission the following to	Unit	Qty	Rate (Ksh)	Amount (Ksh)
	Supply, install, test and commission the following ;-				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	TELEPHONE/DATA AND TV WORKS				
1.21					
1.21	16 SWG, (300 x 300 x 100) mm ³ galvanised steel	NI.	,		
	draw box for telephone, data works and TV works.	No.	1		
1.22	Data/Telephone point comprising of concealed 20				
	mm dia. HG PVC conduits plus draw wire.	No.	4		
1.23	RJ45, dual Data/Telephone Moulded plate as BG,				
	CLIPSAL or approved equivalent.				
	a) twin.	No.	4		
1.24	TV points comprising Draw wire in concealed PVC				
	conduits	No.	3		
1.25	TV outlet plate complete with wiring in CO-AXIAL				
	cable drawn in concealed HG PVC conduit				
		No.	3		
	CONSUMER UNITS/DISTRIBUTION BOARDS		-		
1.26	4 ways TP&N, flush mounted Distribution Board				
	complete with 100A TPN integral isolator as HAGER				
	or approved equivalent complete with all accessories	No.	1		
	but excluding MCBs. (to supply the below consumer				
	units)				
1.27	MCB's for item above				
	(a) 100A, SP	No.	3		
	(b) 10A, SP	No.	1		
	(c) 30A, SP	No.	1		
	(d) 32A TPN	No.	1		
1.00	(e) Blanking plates	No.	6		
1.28	6ways SP&N, flush mounted Consumer Unit				
	complete with 100A SP integral isolator as Schneider	No.	3		
	or approved equivalent complete with all accessories				
1.00	but excluding MCBs.				
1.29	MCB's for item above	No.	4	 	
	(a) 10A, SP (b) 20A, SP	No.	- 16		
	(c) 30A, SP	No.	6 4		
	(d) 45A ,SP	No.	1		
_	(c) Blanking plates	No.	3		
	SUB-MAIN POWER DISTRIBUTION	110.	<u> </u>		
1.3			-		
1.3	16mm ² 4Core PVC/SWA/PVC Copper cables in				
	cable trench and concealed HG PVC conduits from	LM	20	1	
	LV board to Distribution Board (compete with cable				
1.31	glands)				
1.51	10mm ² 4Core PVC/SWA/PVC Copper cables in				
	cable trench and concealed HG PVC conduits from	LM	20	1	
	distribution board to the consumer units (complete				
	with cable glands)	T 3.6	20		-
1.32	100mm diameter HG PVC duct concealed in slab.	LM	20		
1.33	600x600x600mm Manholes.	No.	2		
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SCHEDULE NO. 1 CONT'D - CONFERENCE HALL

Item	Description	Unit	Qty	Rate (Ksh)	Amount (Kah)
Item	Supply, install, test and commission the following;		Qty	Rate (KSII)	Amount (Ksh)
	Supply, instant, test and commission the following;	1			
	SUBTOTAL B/F FROM PREVIOUS PAGE		 		
	FIRE ALARM SYSTEM.				
1.34	Fire alarm points wired in 3x2.5mm ² Heat resistant		-		
- 1.5	SC PVC copper cables drawn in concealed HG PVC	No.	14		
	conduits	140.	1 17		
1.35	Addressable Conventional low profile LED sounder				
1.55	beacon as MENVIER or approved equivalent.	No.	1		
	beacon as MEN VIER of approved equivalent.	110.	1		
1.36	Adressable Smoke detectors as MENVIER or		10		
	approved equivalent.	No.	10		
1.37	Addressable 2Zone, Fire alarm control panel				
	complete with Battery and charger as MENVIER or	No.	1		
	approved equivalent				
1.38	Fire break glass Manual call point unit as MENVIER				
	or approved equivalent complete with a packet of 5	No	3		
	spare glasses, a packet of 5 spare test keys, a spare	No.	3		
	back box and a hinged cover.				
1.39	Power point wired radial comprising of 3x2.5 mm sq.				
	Heat resistant single core PVC copper cables drawn	No.	1		
	in concealed 20mm HG PVC conduits for fire alarm		1		
	panel.				
1.4	Fireman's switch circuit comprising of 3x2.5 mm2				
	Heat resistant single core PVCI copper cables drawn				
	in concealed 20mm HG PVC conduits complete with	LM	1		
	all fixing materials necessary to the Incomer.				
1.41	Firemans switch as MENVIER or approved	No.	1	- 1	
	equivalent.				
	EARTHING				
1.42	Earthing, for the building comprising of the following				
1.42					
	and any other necessary accessories:- a) 12.5 mm x 1200 mm earth rod as FURSE cat. No.				
	RB 105.	No.	2		
	b) 12.5 mm dia. Driving stud as FURSE cat.No.				
	ST100.	No.	2		
	c) Rod to cable clamp as FURSE cat. No. CR510.	No.	2		
	d) Concrete inspection pit as FURSE cat. No. PT005	110.			
	(or a well made 320mm x 320mm x 210 mm depth	No.	1		
	pit)	110.			
	e) 6mm sq. SC PVCI Copper cables.	LM	10	-	· · · · · · · · · · · · · · · · · · ·
		~			-
	SUB TOTAL OF CONFERENCE HALLC/F TO SU	MMAR	Y PAGE		

ELECTRICAL INSTALLATION WORKS FOR PROPOSED BOMET EXTENSION

SCHEDULE NO.2 - LOUNGE

GROUND FLOOR

Item	Description	Unit	Qty	Rate (Ksh)	Amount (Ksh)
	Supply, install, test and commission the following ;-				
	<u>LIGHTING POINTS</u>				
1.01	Lighting points wired in 1.5 mm ² SC CU cables drawn				
	in concealed 20mm diameter HG P.V.C conduits for:-				
	a) one way switching	No.	30		
	b) unswitched.	No.	2		
	SWITCHES				
1.02	10Amps, switch plate as Gilberts or approved				
	equivalent as				
	a) one gang one way	No.	12		
	b)one gang two way	No.	10		
	LIGHTING FITTINGS				
1.03	Lighting fittings complete with bulbs or tubes as				
	follows:-				
	a) Decorative wall bracket luminaires as MicroMark	No.	4		
	or equal and approved equivalent				
	b) Surface mounted circular LED downlight fitting				
	with 21W, 4000K, 2100lm, White body, IP44 as	No.	8	l	
	PHILLIPS Coreline or approved equivalent.	110.	0		
	c) 1200mm, 3120 lm, 28W, 4000K LED Batten				
	Luminaire as Thorn Poppark LED Batten or approved	No.	8		
	Equivalent				
	d) Security LED External light fitting, 50 W,IP65,				
	with integral high frequency movement and daylight		_		
	sensor as PHILLIPS or approved equivalent.	No.	8		
	and the second s			l l	
	e) 5-Light pendant chandelier light fitting with bronze				
	finish as Micromark Langhan range or approved	No.	2		
	equivalent				
	f) 1x8Watts, Double sided LED EXIT emergency				
	lighting luminaire as THORN or approved equivalent.	No.	2		
	Carried and an array of array and array ar				
	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 CONT'D - LOUNGE

Item	Description	Unit	Qty	Rate (Ksh)	Amount (Ksh)
10111	Supply, install, test and commission the following;	Jiii	2.5	Time (Ikin)	TAMOUNT (IKSII)
	,				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	SOCKET OUTLETS AND OTHER POWER				708
	POINTS				
1.04	13 Amps socket outlet points wired ring comprising of				
	3x2.5 mm sq. single core PVC copper cables drawn in	No.	12		
	concealed 25mm HG PVC conduits and PVC	1.0.			
4.05	Trunking.				
1.05	13 Amps. Moulded plate switched socket outlet white				
	in colour as BG, CLIPSAL or approved equivalent				
	a) twin.	No.	12		
1.06	Ground level booster pump point comprising wiring in	NO.	12		
1.00	3x6mm ² PVC-SC-CU cables in concealed PVC	No.	1		
	conduits	NO.	1		
1.07	20 Amps double pole switches with neon indicator as				
1.07	CLIPSAL or approved equivalent for item above	No.	1		
	CEIT SAL of approved equivalent for item above	110.			
1.08	Hosereel pump point comprising wiring in 3x4.0mm ²				
	PVC-SC-CU cables in concealed PVC conduits	No.	1		
	1 10 00 00 caoles in conscaled 1 ve conduits		^		
1.09	30 Amps double pole switches with neon indicator as				70.057
	CLIPSAL or approved equivalent for items above.	No.	1		
1.1	Hand drier point comprising wiring in 3x2.5mm ²	NT	_		
	PVC-SC-CU cables in concealed PVC conduits	No.	2		
1.11	20 Amps double pole switches with neon indicator as				
	CLIPSAL or approved equivalent for items above	No.	2		
1.12	Instant shower point comprising wiring in 3x4mm ²				
	PVC-SC-CU cables in concealed PVC conduits	No.	2		
1.13	20 Amps double pole switches with neon indicator as				
	CLIPSAL or approved equivalent for items above	No.	2		
1 1 4	12W LED wisser Enlarge PLUE				
1.14	12W LED mirror lights as Phillips or approved	No.	2		
1.15	equivalent.		-		
1.13	Cooker point comprising of 3x6mm ² PVC Copper cables drawn in concealed 25mm dia. HG PVC	No	2		
	conduits.	110			
1.16	Cooker control unit complete with 13 Amps. Switched				
1.10	socket outlet as THORN or approved equivalent.	No	2		
	abproved equivalent.	110	-		
1.17	Cooker connection unit for item above.	No.	2		
1.18	Supply and install air extract fans circuits wired using				42334
	2x4mm2 PVC insulated copper cables drawn in 20	NI-	2		
	mm diameter PVC heavy gauge conduits but	No.	2		
	excluding the 20 Amps DP switch.				
1.19	20 Amps double pole switches with neon indicator as				
1	CLIPSAL or approved equivalent for items above	No.	2		
	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 CONT'D - LOUNGE.

Item	Description	Unit	Qty	Rate (Ksh)	Amount (Ksh)
Item	Supply, install, test and commission the following ;-	CARE	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	2400 (2200)	
	continue to the line commission and commission an				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
-	POWER DISTRIBUTION				
	4 Core 95 sq. mm Cu PVC SWA PVC cable laid in				
1.2	200mm HG PVC from the Kenya Power terminal to	LM	25	,	
	the LV Switchboard.				
	i) Cable glands for the above cable	No.	2		
1.21	Trenching to a depth of 750mm and width of 450mm,	LM	20		
1.21	laying, tiling and backfilling.				
	2 x 200mm HG ducts buried in the ground with a	LM	20		
1.22	100mm thick concrete surround, for laying KPLC				
	underground service line cables				
1.23	Power manhole size 600mm x 600mm x 750mm	No.	2		
	(deep) BS 497		-		
	Main Low voltage switchboard 'A'	T4	1		
	8-Way modular type, free standing power distribution	Item	1		
	panel board for floor mounting with both rear and				
1.24	front access panels, cable manager compartments,				
1.24	metal clad 14SWG, 415 mains L.V. Switchboard				
l	manufactured to BS EN60 439-1, and fully wired for				
	1 incoming MCCB and 8 No. TP outgoing feeders as				
	described below: Main Supply Section				
	i) 200A Bus-bars and bus-bar connections consisting	Set	1	**	
1	of high conductivity copper to BS 158 and BS 159, in				
	bus-bars chamber (for KPLC Supply)				
l	ous ours chamber (for the De Supply)				
	ii) 160A TP MCCB incomer (for KPLC Supply)	No.	1		
	Outgoers section				
	i) 100A TP Distribution board in conference hall	No.	1	_	
	ii) 100A TP Distribution board in lounge	No.	1		
	iii) TP MCCB Spareways	No.	6		
	Earthing arrangements for the LV switchboard	Item	1		
	comprising 25x3mm copper tape lead, 1800mm x				
	15mm diameter copper earth electrode as furse or				
1.25	approved equivalent c/w driving stud and tape to rod				
	clamp, 300mm x 300mmx300mm deep concrete				
	inspection earth pit with removable waterproof cover				
	and all the other accessories.	Itom	1		
1.26	Any other necessary items to complete the installation	Item	1		
	i) Cable glands for the above cable	No.	2		
	i) Cable glands for the above cable 300x300x75mm recessed galvanized sheet steel draw	No.	5		
1 27	boxes complete with powder coated cover and all	110.	١		
1.27	other necessary accessories				
	SUB TOTAL C/F TO NEX	T PAGE	1		
	SOB TOTAL OF TOTAL				ļ

SCHEDULE NO. 2 CONT'D - LOUNGE.

Item	Description	Unit	04-	D. C. C.	
	Supply, install, test and commission the following		Qty	Rate (Ksh)	Amount (Ksh)
	Tree, and commission the following	,-			
	SUBTOTAL B/F FROM PREVIOUS PAGE		+		
	TELEPHONE/DATA AND TV WORKS	_		-	
1.28	16 SWG, (300 x 300 x 100) mm ³ galvanised steel	-		-	
	draw box for telephone, data works and TV works.	NT.	١.	1	
	draw box for telephone, data works and TV works.	No.	1		
1.29	Data/Telephone point comprising of concealed 20				
1.29	mm dia. HG PVC conduits plus draw wire.	No.	3	1	
1.3	RJ45,dual Data/Telephone Moulded plate as BG,	10000			
1.5	CLIPSAL or approved equivalent.				
	a) twin.				
1.31		No.	3		
1.51	TV points comprising Draw wire in concealed PVC conduits				
1.32		No.	2	1	
1.32	TV outlet plate complete with wiring in CO-AXIAL		1		
	cable drawn in concealed HG PVC conduit	No.	2		
	CONCLIMED LINUTE (DYCENT PROPERTY PARTY PA				
1.33	CONSUMER UNITS/DISTRIBUTION BOARDS				
1.33	4 ways TP&N, flush mounted Distribution Board				
	complete with 100A TPN integral isolator as HAGER		1 1		
	or approved equivalent complete with all accessories	No.	1		
	but excluding MCBs. (to supply the below consumer	l		1	
	units)				
	MCB's for item above				
	(a) 100A, SP	No.	6		
	(b) 10A, SP	No.	1		
	(c) 30A, SP	No.	1		
	(d) 32A TPN	No.	1		
	(e) Blanking plates	No.	2		
1.35	6ways SP&N, flush mounted Consumer Unit complete				
1	with 100A SP integral isolator as Schneider or	No.			
1	approved equivalent complete with all accessories but	140.	2		
	excluding MCBs.				
	MCB's for item above				
	(a) 10A, SP	No.	2		
	(b) 20A, SP	No.	2		
	(c) 30A, SP	No.	2		
	(d) 45A ,SP	No.	2		
(c) Blanking plates	No.	4		
	SUB-MAIN POWER DISTRIBUTION				
1	6 mm ² 4Core PVC/SWA/PVC Copper cables in				
1.37 c	able trench and concealed HG PVC conduits from Lv			1	
b	poard to Distribution board (complete with cable	LM	15	1	
	glands)		1		
	0 mm ² 4Core PVC/SWA/PVC Copper cables in				
	able trench and concealed HG PVC conduits from				
.38 c	istribution board to consume with (LM	20		
\[\frac{u}{a}\]	istribution board to consumer units(complete with able glands)				
	00mm diameter HG PVC duct concealed in slab.				
30 11/		T 7 4	20		
.39 10 1.4 60	00x600x600mm Manholes.	LM No.	20		

Item	Description	Unit	Qty	Rate (Ksh)	Amount (Ksh)
	Supply, install, test and commission the following ;-				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	FIRE ALARM SYSTEM.				
1.41	Fire alarm points wired in 3x2.5mm ² Heat resistant SC PVC copper cables drawn in concealed HG PVC conduits	No.	8		
1.42	Addressable Conventional low profile LED sounder beacon as MENVIER or approved equivalent.	No.	1		
1.43	Adressable Smoke detectors as MENVIER or approved equivalent.	No.	4		
1.44	Addressable 2Zone, Fire alarm control panel complete with Battery and charger as MENVIER or approved equivalent	No.	1		
1.45	Fire break glass Manual call point unit as MENVIER or approved equivalent complete with a packet of 5 spare glasses, a packet of 5 spare test keys, a spare back box and a hinged cover.	No.	3		
1.46	Power point wired radial comprising of 3x2.5 mm sq. Heat resistant single core PVC copper cables drawn in concealed 20mm HG PVC conduits for fire alarm panel.	No.	1		
1.47	Fireman's switch circuit comprising of 3x2.5 mm2 Heat resistant single core PVCI copper cables drawn in concealed 20mm HG PVC conduits complete with all fixing materials necessary to the Incomer.	LM	1		
1.48	Firemans switch as MENVIER or approved equivalent.	No.	1		
1.5	20A, unswitched fused spur DP control switch with neon light and cord outlet for item above as Crabtree or approved equivalent	No.	1		

Item	Description	Unit	Qty	Rate (Ksh)	A (77
	Supply, install, test and commission the following ;-	Cint	Qty	Rate (Ksn)	Amount (Ks
	LIGHTING POINTS				
1.01	Lighting points wired in 1.5 mm ² SC CU cables drawn				
	in concealed 20mm diameter HG P.V.C conduits for:-				
	a) one way switching	No.	22		
	b) unswitched.	No.	2		
	SWITCHES				
1.02	10Amps, switch plate as Gilberts or approved				
	equivalent as				
	a) one gang one way	No.	12		
	b)one gang two way	No.	10		
	LIGHTING FITTINGS		10		
.03	Lighting fittings complete with bulbs or tubes as				
	follows:-	- 1			
	a) Decorative wall bracket luminaires as MicroMark	No.	4		
	or equal and approved equivalent	2.0.			
	b) Surface mounted circular LED downlight fitting				
	with 21W, 4000K, 2100lm, White body, IP44 as				
	PHILLIPS Coreline or approved equivalent.	No.	8		
	c) 1200mm, 3120 lm, 28W, 4000K LED Batten				
	Luminaire as Thorn Poppark LED Batten or approved	No.	8		
	Equivalent				
	e) 5-Light pendant chandelier light fitting with bronze				
	finish as Micromark Langhan range or approved	No.	2		
	equivalent				
	f) 1x8Watts, Double sided LED EXIT emergency				
	lighting luminaire as THORN or approved equivalent.	No.	2		

SCHEDULE NO.2 CONT'D - LOUNGE

Item	Description	Unit	Qty	Rate (Ksh)	Amount (Ksh)
Item	Supply, install, test and commission the following ;-	CIIIC	7.7	Attitute (ARUM)	
	Suppry, mistain, test and commission the following,				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	SOCKET OUTLETS AND OTHER POWER			-	3, 3,
	POINTS				
1.04	13 Amps socket outlet points wired ring comprising of				
1.0	3x2.5 mm sq. single core PVC copper cables drawn in	3.7	10		
	concealed 25mm HG PVC conduits and PVC	No.	12		
	Trunking.				
1.05	13 Amps. Moulded plate switched socket outlet white				
	in colour as BG, CLIPSAL or approved equivalent				
	11				
	a) twin.	No.	12		
1.06	Hand drier point comprising wiring in 3x2.5mm ²).T	2		
	PVC-SC-CU cables in concealed PVC conduits	No.	2		
1.07	20 Amps double pole switches with neon indicator as				
1.07	CLIPSAL or approved equivalent for items above	No.	2		
	CENT SINE of approved equivalent for from the second				
1.08	Instant shower point comprising wiring in 3x4mm ²				
2.00	PVC-SC-CU cables in concealed PVC conduits	No.	2		
	1 VC-3C-CO Cables in concealed 1 VC conduits				
1.09	20 Amps double pole switches with neon indicator as				
1.05	CLIPSAL or approved equivalent for items above	No.	2		
l	CERT SALE of approved equivalent for items above	100 00			
1.1	12W LED mirror lights as Phillips or approved				
1	equivalent.	No.	2		
1.11	Cooker point comprising of 3x6mm ² PVC Copper				
	cables drawn in concealed 25mm dia. HG PVC	No	2		
	conduits.	100000			
1.12	Cooker control unit complete with 13 Amps. Switched				, , , , , , , , , , , , , , , , , , , ,
1.12	socket outlet as THORN or approved equivalent.	No	2		
	socket outlet as THOIGH of approved equivalent.				
1.13	Cooker connection unit for item above.	No.	2		
1.14	Supply and install air extract fans circuits wired using				
	2x4mm2 PVC insulated copper cables drawn in 20				
	mm diameter PVC heavy gauge conduits but	No.	2		
	excluding the 20 Amps DP switch.				
1.15	20 Amps double pole switches with neon indicator as				
	CLIPSAL or approved equivalent for items above	No.	2		
	TELEPHONE/DATA AND TV WORKS				
1.16	16 SWG, (300 x 300 x 100) mm ³ galvanised steel				
	draw box for telephone, data works and TV works.	No.	1		
	L and the state of				
1.17	Data/Telephone point comprising of concealed 20	NI-	3		
30 Set 5	mm dia. HG PVC conduits plus draw wire.	No.	3		
1.18	RJ45, dual Data/Telephone Moulded plate as BG,				
ontower Radio	CLIPSAL or approved equivalent.				
	a) twin.	No.	3		
1.19	TV points comprising Draw wire in concealed PVC				
	conduits	No.	2		
1.2	TV outlet plate complete with wiring in CO-AXIAL				
	cable drawn in concealed HG PVC conduit				
		No.	2		
	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO.2 CONT'D - FIRST FLOOR LOUNGE

Item	Description	Unit	Qty	Rate (Ksh)	Amount (Ksh)
	Supply, install, test and commission the following ;-		1 2.5	Rate (RSII)	Amount (Ksn)
		1			
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	CONSUMER UNITS/DISTRIBUTION BOARDS				
1.21	6ways SP&N, flush mounted Consumer Unit complete				
i	with 100A SP integral isolator as Schneider or	l			
	approved equivalent complete with all accessories but	No.	2	1	
	excluding MCBs.				
1.22	MCB's for item above				
	(a) 10A, SP	No.	2		
	(b) 20A, SP	No.	2		
	(c) 30A, SP	No.	2		
	(d) 45A ,SP	No.	2		
	(c) Blanking plates	No.	4		
	SUB-MAIN POWER DISTRIBUTION				
	10 mm ² 4Core PVC/SWA/PVC Copper cables in	LM 2			
1.23	cable trench and concealed HG PVC conduits from		20		
	distribution board in ground floor to consumer units		20		
	FIRE ALARM SYSTEM.				
1.24	Fire alarm points wired in 3x2.5mm ² Heat resistant				
	SC PVC copper cables drawn in concealed HG PVC	No.	8	1	
	conduits				
1.25	Addressable Conventional low profile LED sounder				
	beacon as MENVIER or approved equivalent.	No.	1		
				1	
1.26	Adressable Smoke detectors as MENVIER or	N	,		
	approved equivalent.	No.	4		
1.27	Fire break glass Manual call point unit as MENVIER				
	or approved equivalent complete with a packet of 5	No.	,		ļ
	spare glasses, a packet of 5 spare test keys, a spare	INO.	3		1
	back box and a hinged cover.				
	SUB TOTAL C/F TO SUMMARY PAGE PAGE				

SCHEDULE NO. 2 CONT'D - SECOND FLOOR LOUNGE

Item	Description	Unit	Qty	Rate (Ksh)	Amount (Ksh)
	Supply, install, test and commission the following ;-				
	11 07				
	LIGHTING POINTS				
1.01	Lighting points wired in 1.5 mm ² SC CU cables drawn	,			
1	in concealed 20mm diameter HG P.V.C conduits for:-				
	A CONTRACTOR OF THE CONTRACTOR				
	a) one way switching	No.	18		
	b) unswitched.	No.	2		
	SWITCHES				
1.02	10Amps, switch plate as Gilberts or approved				
	equivalent as				
	a) one gang one way	No.	3		
	b)one gang two way	No.	2		
	<u>LIGHTING FITTINGS</u>				
1.03	Lighting fittings complete with bulbs or tubes as				
	follows:-				
	a)1200 x 300mm,30w,3129 lm,Standard Recessed				
l	4000K 50,0000 lifetime hrs LED Panel Light, as	No.	16		
	Thorn or approved equivalent.				
	b) 1200mm, 3120 lm, 28W, 4000K LED Batten		_		
	Luminaire as Thorn Poppark LED Batten or approved	No.	2		
	Equivalent			-	
	c) 1x8Watts, Double sided LED EXIT emergency	N.T.	١ ,		
1	lighting luminaire as THORN or approved equivalent.	No.	2		
1.04	12.4 1.4 (list wind wing comparising of			-	
1.04	13 Amps socket outlet points wired ring comprising of 3x2.5 mm sq. single core PVC copper cables drawn in			1	
	concealed 25mm HG PVC conduits and PVC	No.	20		
			1		
1.05	Trunking. 13 Amps. Moulded plate switched socket outlet white				
1.03	in colour as BG, CLIPSAL or approved equivalent				
1	in colour as BG, CEN BNE of approved equivalent				
	a) twin.	No.	16		
1.06	Waterproof floor socket boxes as Legrand or	NI-	4		
2.00	approved equivalent	No.	4	ii ii	
	TELEPHONE/DATA AND TV WORKS				
1.07	16 SWG, (300 x 300 x 100) mm ³ galvanised steel				
	draw box for telephone, data works and TV works.	No.	1		
1	,				
1.08	Data/Telephone point comprising of concealed 20	Me	10		
	mm dia. HG PVC conduits plus draw wire.	No.	10		
1.09	RJ45, dual Data/Telephone Moulded plate as BG,				
(1000)	CLIPSAL or approved equivalent.				
	a) twin.	No.	10		
1.1	TV points comprising Draw wire in concealed PVC	\$1 ×664			
	conduits	No.	2		
1.11	TV outlet plate complete with wiring in CO-AXIAL				1
	cable drawn in concealed HG PVC conduit		_	1	1
		No.	2		
	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO.2 CONT'D - LOUNGE Item Description Unit Otv Rate (Ksh) Amount (Ksh) Supply, install, test and commission the following ;-SUBTOTAL B/F FROM PREVIOUS PAGE CONSUMER UNITS/DISTRIBUTION BOARDS 1.12 6ways SP&N, flush mounted Consumer Unit complete with 100A SP integral isolator as Schneider or No. 2 approved equivalent complete with all accessories but excluding MCBs. 1.13 MCB's for item above (a) 10A, SP No. 2 (b) 20A, SP No. 4 (c) Blanking plates No. 6 SUB-MAIN POWER DISTRIBUTION 10 mm² 4Core PVC/SWA/PVC Copper cables in 1.14 cable trench and concealed HG PVC conduits from LM 30 distribution board to consumer units FIRE ALARM SYSTEM. 1.15 Fire alarm points wired in 3x2.5mm² Heat resistant SC PVC copper cables drawn in concealed HG PVC No. 5 conduits 1.16 Addressable Conventional low profile LED sounder beacon as MENVIER or approved equivalent. No. 1 1.17 Adressable Smoke detectors as MENVIER or No. 2 approved equivalent. 1.18 Fire break glass Manual call point unit as MENVIER or approved equivalent complete with a packet of 5 No. 2 spare glasses, a packet of 5 spare test keys, a spare back box and a hinged cover. SUB TOTAL C/F TO LOUNGE SUMMARY PAGE **LOUNGE SUMMARY** TOTAL (KSH) 1 GROUND FLOOR 2 FIRST FLOOR 3 SECOND FLOOR TOTAL FOR LOUNGE C/F TO SUMMARY PAG SCHEDULE NO.3 - LIGHTNING PROTECTION SYSTEM Item Description Qty Unit Rate (Ksh) Amount (Ksh) Supply, install, test and commission the following ;-AIR TERMINATION 1.01 25x3mm copper tape including copper saddles at 1500mm intervals and bonding to water tanks and 40 LM other metal work in the roof, all as FURSE 1.02 Copper air terminations (lightning arrestors) inclusive of base clamp and all fixing materials as FURSE 2 No. DOWNWARD CONDUCTOR 1.03 Downward conductor comprising 25mm x 3 mm thick 80 LM bare copper tape as FURSE 1.04 Copper square tape clamp for making crossing tape 15 No. joints Steel conduits32mm diam. for securing the down 1.05 20 LM conductors complete with sandles 1.06 Test clamp as FURSE No. TOTAL FOR LIGHTNING PROTECTION C/F TO MAIN SUMMARY PAGE

CONTRACT NO.BUC/OT/ACAD/11/2019-2020

SCHEDULE NO.4: STRUCTURED CABLING INSTALLATION WORKS ESTIMATES

Item	Description	Unit	Qty	Rate (Kshs)	Amount (Kshs)
	Supply, Install, Test and Commission the				
	following:-				
	HORIZONTAL CABLING				
1.01	Cat 6A, UTP 4-pair cable as Siemon or its equal				
	and approved equivalent pulled between cabinet				
	and outlet plates. (provisional length)	Lm.	600		
1.02	3M, RJ45-RJ45 Cat 6A, UTP factory terminated				
	patch cords as Siemon or its equal and approved				
	equivalent for use between workstation and data				
	outlets.	No.	30		
1.03	1M, RJ45-RJ45 Cat 6A, UTP factory terminated				
	patch cords as Siemon or its equal and approved				
	equivalent to be used in cabinet.	No.	30		
1.04	RJ45 Cat 6A, UTP White moulded case dual				
	Data outlet plates complete with labelling as				
	Siemon or its equal and approved equivalent.	No.	15		
	BACKBONE CABLING AND GENERAL				
	REQUIREMENTS				
1.05	8 core Multimode (50/125um) OM3 I0G Unitube				
	UnArmoured indoor/outdoor Fibre Optic Cable				
	as data backbone complete with connectors and				
	all terminations to active components.				
	(provisional length)	Lm.	40		
1.06	24 Port Fibre Optic Patch Panel as Siemon or its				
	equal and approved equivalent.	No.	1		
1.07	10GBASE-SR SFP+ fibre modules as Cisco or				
	approved equivalent.	No.	3		
1.08	Dual Fibre optic patch cords	No.	2		
	Sub-Total C/F to Next Page				

Item	Description	Unit	Qty	Rate (Kshs)	Amount (Kshs)
	Sub-Total B/F from Previous Page				
1.00	CABINETS				
1.09	48 Port RJ45 Cat 6A, Data Patch Panel for UTP				
	termination as Siemon or its equal and approved				
	equivalent.	No.	2		
1.10	2U WM series rack mount cable managers as				
- Tall	siemon or its equal and approved equivalent	No.	2		
1.11	240V, 50Hz,3000VA, (240V) (UPS), Rack				
	Mountable, with USB and Serial Port as APC or		1 1		_
	an approved equivalent.	No.	1		
1.12	Grounding and bonding kit complete with 50mm				
	diameter copper bounding bar and 6mm thick				
	green and yellow wire. The Earthing of the				
	system is to be to the approval of the Engineer.	Lot	2		
1 13 1					
	42U wall mounted metal cabinet / with glass door				
	complete with cable managers ,fans,power outlet				
	points ,groundingkit and casters	Item	2		
	ACTIVE COMPONENTS		-		
1.13	48 Port stackable managed Core Switch				
- 1	Complete with stacking cable, redundant Power				
;	Supply, 10G/40G uplink ports, POE as Cisco or				
i	its equal and approved equivalent as described in				
t	the technical specifications	No.	1		
100	Supply, install and configure wall/ceiling	1.0.	1		
r	nounted dual band Wireless Indoor long range	ĺ		1	
A	Access Point with Wi-Fi 802.11ac high power				
l v	wireless technology and virtual management				
c	controller software package and is PoE to cover		- 1		
a	at least 50M radius complete with antennae,				ľ
p	ower adaptor and all accessories as Ubiquiti or	1			
a	n approved equivalent.	No.	9		
	Any other item to complete installation	Item	1		
UIAL	OTAL FOR STRUCTURED CABLING WORKS C/F TO PRICE				
MMARY PAGE					

SCHEDULE 6.ELECTRICAL SUMMARY PAGE					
ITEM	DESCRIPTION	amount(kshs)			
	Sub total B/F from schedule 1 : -PRELIMINARIES	AMOUNT(IGHS)			
A	Sub total B/F from schedule 2 : -CONFERENCE HALL				
В	Sub total B/F from schedule 3:-LOUNGE				
С	Sub total B/F from schedule 4:-LIGHTING PROTECTION	-			
D					
Ē	Sub total B/F from schedule 5:-STRUCTURED CABLING	200,000.00			
F	Contingency	200,000.00			
	TOTAL FOR ELECTRICAL INSTALLATION WORKS CARRIED TO FORM OF TENDER				
Subcontractor's Signature and Stamp Address					
PIN NOV.A.T Certificate					
Witness: Name and Signature					
Address					
Date					
		-			

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