

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		
	<u>SWITCHES</u>				
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:-				
	a) 600 x 600mm,37w,4300 lm,Standard Recessed 4000K 50,0000 lifetime hrs LED Panel Light ,as PHILLIPS or approved equivalent.	No.	4		
	b)1200 x 300mm,30w,3129 lm,Standard Recessed 4000K 50,0000 lifetime hrs LED Panel Light ,as Thorn or approved equivalent.	No.	20		
	c) Surface mounted circular LED downlight fitting with 21W, 4000K , 2100lm, White body, IP44 as PHILLIPS Coreline or approved equivalent.	No.	50		
	d) 1200mm, 3120 lm, 28W, 4000K LED Batten Luminaire as Thorn Poppark LED Batten or approved Equivalent	No.	8		
	e) Security LED External light fitting, 50 W,IP65, with integral high frequency movement and daylight sensor as PHILLIPS or approved equivalent .	No.	14		
	f) 5-Light pendant chandelier light fitting with bronze finish as Micromark Langhan range or approved equivalent	No.	2		
	g) 1x8Watts, Double sided LED EXIT emergency lighting luminaire as THORN or approved equivalent.	No.	2		
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 :-				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	SOCKET OUTLETS AND OTHER POWER POINTS				
1.04	13 Amps socket outlet points wired ring comprising of 3x2.5 mm sq. single core PVC copper cables drawn in concealed 25mm HG PVC conduits and PVC Trunking.	No.	35		
1.05	13 Amps. Moulded plate switched socket outlet white in colour as BG, CLIPSAL or approved equivalent				
	a) twin.	No.	30		
1.06	Waterproof floor socket boxes as Legrand or approved equivalent	No.	5		
1.07	Ground level booster pump point comprising wiring in 3x6mm ² PVC-SC-CU cables in concealed PVC conduits	No.	1		
1.08	20 Amps double pole switches with neon indicator as CLIPSAL or approved equivalent for item above	No.	1		
1.09	Hosereel pump point comprising wiring in 3x4.0mm ² PVC-SC-CU cables in concealed PVC conduits	No.	1		
1.1	30 Amps double pole switches with neon indicator as CLIPSAL or approved equivalent for items above.	No.	1		
1.11	Hand drier point comprising wiring in 3x2.5mm ² PVC-SC-CU cables in concealed PVC conduits	No.	4		
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	No.	4		
1.14	12W LED mirror lights as Phillips or approved equivalent .	No.	4		
1.15	20 Amps double pole switches with neon indicator as CLIPSAL or approved equivalent for items above	No.	4		
1.16	Cooker point comprising of 3x6mm ² PVC Copper cables drawn in concealed 25mm dia. HG PVC conduits .	No	1		
1.17	Cooker control unit complete with 13 Amps. Switched socket outlet as THORN or approved equivalent.	No	1		
1.18	Cooker connection unit for item above.	No.	1		
1.19	Supply and install air extract fans circuits wired using 2x4mm ² PVC insulated copper cables drawn in 20 mm diameter PVC heavy gauge conduits but excluding the 20 Amps DP switch.	No.	2		
1.2	20 Amps double pole switches with neon indicator as CLIPSAL or approved equivalent for items above	No.	2		
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 ;-				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	TELEPHONE/DATA AND TV WORKS				
1.21	16 SWG, (300 x 300 x 100) mm ³ galvanised steel 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 but excluding MCBs. (to supply the below consumer units)	No.	1		
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		
	(e) Blanking plates	No.	6		
1.28	6ways SP&N, flush mounted Consumer Unit complete with 100A SP integral isolator as Schneider or approved equivalent complete with all accessories but excluding MCBs.	No.	3		
1.29	MCB's for item above				
	(a) 10A, SP	No.	4		
	(b) 20A, SP	No.	6		
	(c) 30A, SP	No.	4		
	(d) 45A ,SP	No.	1		
	(c) Blanking plates	No.	3		
	SUB-MAIN POWER DISTRIBUTION				
1.3	16mm ² 4Core PVC/SWA/PVC Copper cables in cable trench and concealed HG PVC conduits from LV board to Distribution Board (complete with cable glands)	LM	20		
1.31	10mm ² 4Core PVC/SWA/PVC Copper cables in cable trench and concealed HG PVC conduits from distribution board to the consumer units (complete with cable glands)	LM	20		
1.32	100mm diameter HG PVC duct concealed in slab.	LM	20		
1.33	600x600x600mm Manholes.	No.	2		
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 ;-				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	<u>FIRE ALARM SYSTEM.</u>				
1.34	Fire alarm points wired in 3x2.5mm ² Heat resistant SC PVC copper cables drawn in concealed HG PVC conduits	No.	14		
1.35	Addressable Conventional low profile LED sounder beacon as MENVIER or approved equivalent.	No.	1		
1.36	Adressable Smoke detectors as MENVIER or approved equivalent.	No.	10		
1.37	Addressable 2Zone, Fire alarm control panel complete with Battery and charger as MENVIER or approved equivalent	No.	1		
1.38	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		
1.39	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		
1.4	Fireman's switch circuit comprising of 3x2.5 mm ² Heat resistant single core P VCI copper cables drawn in concealed 20mm HG PVC conduits complete with all fixing materials necessary to the Incomer.	LM	1		
1.41	Firemans switch as MENVIER or approved equivalent.	No.	1		
	<u>EARTHING</u>				
1.42	Earthing, for the building comprising of the following 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 (or a well made 320mm x 320mm x 210 mm depth pit)	No.	1		
	e) 6mm sq. SC P VCI Copper cables.	LM	10		
	SUB TOTAL OF CONFERENCE HALLC/F TO SUMMARY 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 :-				
	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.	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 or equal and approved equivalent	No.	4		
	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 Equivalent	No.	8		
	d) Security LED External light fitting, 50 W,IP65, with integral high frequency movement and daylight sensor as PHILLIPS or approved equivalent .	No.	8		
	e) 5-Light pendant chandelier light fitting with bronze finish as Micromark Langhan range or approved equivalent	No.	2		
	f) 1x8Watts, Double sided LED EXIT emergency lighting luminaire as THORN or approved equivalent.	No.	2		
SUB TOTAL C/F TO NEXT PAGE					

SCHEDULE NO. 2 CONT'D - LOUNGE

Item	Description	Unit	Qty	Rate (Ksh)	Amount (Ksh)
	Supply, install, test and commission the following ;-				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	<u>SOCKET OUTLETS AND OTHER POWER POINTS</u>				
1.04	13 Amps socket outlet points wired ring comprising of 3x2.5 mm sq. single core PVC copper cables drawn in concealed 25mm HG PVC conduits and PVC Trunking.	No.	12		
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 3x6mm ² PVC-SC-CU cables in concealed PVC conduits	No.	1		
1.07	20 Amps double pole switches with neon indicator as CLIPSAL or approved equivalent for item above	No.	1		
1.08	Hosereel pump point comprising wiring in 3x4.0mm ² PVC-SC-CU cables in concealed PVC conduits	No.	1		
1.09	30 Amps double pole switches with neon indicator as CLIPSAL or approved equivalent for items above.	No.	1		
1.1	Hand drier point comprising wiring in 3x2.5mm ² 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		
1.14	12W LED mirror lights as Phillips or approved equivalent .	No.	2		
1.15	Cooker point comprising of 3x6mm ² PVC Copper cables drawn in concealed 25mm dia. HG PVC conduits .	No	2		
1.16	Cooker control unit complete with 13 Amps. Switched socket outlet as THORN or approved equivalent.	No	2		
1.17	Cooker connection unit for item above.	No.	2		
1.18	Supply and install air extract fans circuits wired using 2x4mm ² PVC insulated copper cables drawn in 20 mm diameter PVC heavy gauge conduits but excluding the 20 Amps DP switch.	No.	2		
1.19	20 Amps double pole switches with neon indicator as 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)
	Supply, install, test and commission the following ;-				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	POWER DISTRIBUTION				
1.2	4 Core 95 sq. mm Cu PVC SWA PVC cable laid in 200mm HG PVC from the Kenya Power terminal to the LV Switchboard.	LM	25		
	i) Cable glands for the above cable	No.	2		
1.21	Trenching to a depth of 750mm and width of 450mm, laying, tiling and backfilling.	LM	20		
1.22	2 x 200mm HG ducts buried in the ground with a 100mm thick concrete surround, for laying KPLC underground service line cables	LM	20		
1.23	Power manhole size 600mm x 600mm x 750mm (deep) BS 497	No.	2		
	Main Low voltage switchboard 'A'				
1.24	8-Way modular type, free standing power distribution panel board for floor mounting with both rear and front access panels, cable manager compartments, metal clad 14SWG, 415 mains L.V. Switchboard manufactured to BS EN60 439-1, and fully wired for 1 incoming MCCB and 8 No. TP outgoing feeders as described below:	Item	1		
	Main Supply Section				
	i) 200A Bus-bars and bus-bar connections consisting of high conductivity copper to BS 158 and BS 159, in bus-bars chamber (for KPLC Supply)	Set	1		
	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		
1.25	Earthing arrangements for the LV switchboard comprising 25x3mm copper tape lead, 1800mm x 15mm diameter copper earth electrode as furse or 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.	Item	1		
1.26	Any other necessary items to complete the installation	Item	1		
	i) Cable glands for the above cable	No.	2		
1.27	300x300x75mm recessed galvanized sheet steel draw boxes complete with powder coated cover and all other necessary accessories	No.	5		
	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO.2 CONT'D - LOUNGE .

Item	Description	Unit	Qty	Rate (Ksh)	Amount (Ksh)
	Supply, install, test and commission the following :-				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	TELEPHONE/DATA AND TV WORKS				
1.28	16 SWG, (300 x 300 x 100) mm ³ galvanised steel draw box for telephone, data works and TV works.	No.	1		
1.29	Data/Telephone point comprising of concealed 20 mm dia. HG PVC conduits plus draw wire.	No.	3		
1.3	RJ45,dual Data/Telephone Moulded plate as BG, CLIPSAL or approved equivalent.				
	a) twin.	No.	3		
1.31	TV points comprising Draw wire in concealed PVC conduits	No.	2		
1.32	TV outlet plate complete with wiring in CO-AXIAL cable drawn in concealed HG PVC conduit	No.	2		
	CONSUMER UNITS/DISTRIBUTION BOARDS				
1.33	4 ways TP&N, flush mounted Distribution Board complete with 100A TPN integral isolator as HAGER or approved equivalent complete with all accessories but excluding MCBs. (to supply the below consumer units)	No.	1		
1.34	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 with 100A SP integral isolator as Schneider or approved equivalent complete with all accessories but excluding MCBs.	No.	2		
1.36	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				
1.37	16 mm ² 4Core PVC/SWA/PVC Copper cables in cable trench and concealed HG PVC conduits from Lv board to Distribution board (complete with cable glands)	LM	15		
1.38	10 mm ² 4Core PVC/SWA/PVC Copper cables in cable trench and concealed HG PVC conduits from distribution board to consumer units(complete with cable glands)	LM	20		
1.39	100mm diameter HG PVC duct concealed in slab.	LM	20		
1.4	600x600x600mm Manholes.	No.	2		
	SUB TOTAL C/F TO NEXT PAGE				

SCHEDULE NO. 2 CONT'D - LOUNGE

Item	Description	Unit	Qty	Rate (Ksh)	Amount (Ksh)
	Supply, install, test and commission the following ;-				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	<u>FIRE ALARM SYSTEM.</u>				
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	Addressable 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 mm ² Heat resistant single core PVC 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		
	SUB TOTAL C/F TO SUMMARY PAGE PAGE				

SCHEDULE NO.2 CONT'D - LOUNGE FIRST FLOOR

Item	Description	Unit	Qty	Rate (Ksh)	Amount (Ksh)
	Supply, install, test and commission the following ;-				
	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				
1.03	Lighting fittings complete with bulbs or tubes as follows:-				
	a) Decorative wall bracket luminaires as MicroMark or equal and approved equivalent	No.	4		
	b) Surface mounted circular LED downlight fitting with 21 W, 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 Equivalent	No.	8		
	e) 5-Light pendant chandelier light fitting with bronze finish as Micromark Langhan range or approved equivalent	No.	2		
	f) 1x8Watts, Double sided LED EXIT emergency lighting luminaire as THORN or approved equivalent.	No.	2		
SUB TOTAL C/F TO NEXT PAGE					

SCHEDULE NO.2 CONT'D - LOUNGE

Item	Description	Unit	Qty	Rate (Ksh)	Amount (Ksh)
	Supply, install, test and commission the following :-				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	<u>SOCKET OUTLETS AND OTHER POWER POINTS</u>				
1.04	13 Amps socket outlet points wired ring comprising of 3x2.5 mm sq. single core PVC copper cables drawn in concealed 25mm HG PVC conduits and PVC Trunking.	No.	12		
1.05	13 Amps. Moulded plate switched socket outlet white in colour as BG, CLIPSAL or approved equivalent				
	a) twin.	No.	12		
1.06	Hand drier point comprising wiring in 3x2.5mm ² PVC-SC-CU cables in concealed PVC conduits	No.	2		
1.07	20 Amps double pole switches with neon indicator as CLIPSAL or approved equivalent for items above	No.	2		
1.08	Instant shower point comprising wiring in 3x4mm ² PVC-SC-CU cables in concealed PVC conduits	No.	2		
1.09	20 Amps double pole switches with neon indicator as CLIPSAL or approved equivalent for items above	No.	2		
1.1	12W LED mirror lights as Phillips or approved equivalent .	No.	2		
1.11	Cooker point comprising of 3x6mm ² PVC Copper cables drawn in concealed 25mm dia. HG PVC conduits .	No	2		
1.12	Cooker control unit complete with 13 Amps. Switched socket outlet as THORN or approved equivalent.	No	2		
1.13	Cooker connection unit for item above.	No.	2		
1.14	Supply and install air extract fans circuits wired using 2x4mm ² PVC insulated copper cables drawn in 20 mm diameter PVC heavy gauge conduits but excluding the 20 Amps DP switch.	No.	2		
1.15	20 Amps double pole switches with neon indicator as CLIPSAL or approved equivalent for items above	No.	2		
	<u>TELEPHONE/DATA AND TV WORKS</u>				
1.16	16 SWG, (300 x 300 x 100) mm ³ galvanised steel draw box for telephone, data works and TV works.	No.	1		
1.17	Data/Telephone point comprising of concealed 20 mm dia. HG PVC conduits plus draw wire.	No.	3		
1.18	RJ45,dual Data/Telephone Moulded plate as BG, 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 :-				
	SUBTOTAL B/F FROM PREVIOUS PAGE				
	CONSUMER UNITS/DISTRIBUTION BOARDS				
1.21	6ways SP&N, flush mounted Consumer Unit complete with 100A SP integral isolator as Schneider or approved equivalent complete with all accessories but excluding MCBs.	No.	2		
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				
1.23	10 mm ² 4Core PVC/SWA/PVC Copper cables in cable trench and concealed HG PVC conduits from distribution board in ground floor to consumer units	LM	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 conduits	No.	8		
1.25	Addressable Conventional low profile LED sounder beacon as MENVIER or approved equivalent.	No.	1		
1.26	Adressable Smoke detectors as MENVIER or approved equivalent.	No.	4		
1.27	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		
	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 ;-				
	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.	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		
	LIGHTING FITTINGS				
1.03	Lighting fittings complete with bulbs or tubes as follows:-				
	a)1200 x 300mm,30w,3129 lm,Standard Recessed 4000K 50,0000 lifetime hrs LED Panel Light ,as Thorn or approved equivalent.	No.	16		
	b) 1200mm, 3120 lm, 28W, 4000K LED Batten Luminaire as Thorn Poppark LED Batten or approved Equivalent	No.	2		
	c) 1x8Watts, Double sided LED EXIT emergency lighting luminaire as THORN or approved equivalent.	No.	2		
1.04	13 Amps socket outlet points wired ring comprising of 3x2.5 mm sq. single core PVC copper cables drawn in concealed 25mm HG PVC conduits and PVC Trunking.	No.	20		
1.05	13 Amps. Moulded plate switched socket outlet white in colour as BG, CLIPSAL or approved equivalent				
	a) twin.	No.	16		
1.06	Waterproof floor socket boxes as Legrand or approved equivalent	No.	4		
	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		
1.08	Data/Telephone point comprising of concealed 20 mm dia. HG PVC conduits plus draw wire.	No.	10		
1.09	RJ45,dual Data/Telephone Moulded plate as BG, CLIPSAL or approved equivalent.				
	a) twin.	No.	10		
1.1	TV points comprising Draw wire in concealed PVC conduits	No.	2		
1.11	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 - LOUNGE.

Item	Description	Unit	Qty	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 approved equivalent complete with all accessories but excluding MCBs.	No.	2		
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				
1.14	10 mm ² 4Core PVC/SWA/PVC Copper cables in cable trench and concealed HG PVC conduits from distribution board to consumer units	LM	30		
	FIRE ALARM SYSTEM.				
1.15	Fire alarm points wired in 3x2.5mm ² Heat resistant SC PVC copper cables drawn in concealed HG PVC conduits	No.	5		
1.16	Addressable Conventional low profile LED sounder beacon as MENVIER or approved equivalent.	No.	1		
1.17	Addressable Smoke detectors as MENVIER or approved equivalent.	No.	2		
1.18	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.	2		
	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 PAGE					
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 150mm intervals and bonding to water tanks and other metal work in the roof, all as FURSE	40	LM		
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 bare copper tape as FURSE	80	LM		
1.04	Copper square tape clamp for making crossing tape joints	15	No.		
1.05	Steel conduits 32mm diam. for securing the downward conductors complete with saddles	20	LM		
1.06	Test clamp as FURSE	4	No.		
	TOTAL FOR LIGHTNING PROTECTION C/F TO MAIN SUMMARY PAGE				

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					
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 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 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	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 Complete with stacking cable, redundant Power Supply, 10G/40G uplink ports, POE as Cisco or its equal and approved equivalent as described in the technical specifications	No.	1		
1.14	Supply, install and configure wall/ceiling mounted dual band Wireless Indoor long range Access Point with Wi-Fi 802.11ac high power wireless technology and virtual management controller software package and is PoE to cover at least 50M radius complete with antennae, power adaptor and all accessories as Ubiquiti or an approved equivalent.	No.	9		
1.15	Any other item to complete installation	Item	1		
TOTAL FOR STRUCTURED CABLING WORKS C/F TO PRICE SUMMARY PAGE					

SCHEDULE 6.ELECTRICAL SUMMARY PAGE

ITEM	DESCRIPTION	AMOUNT(KSHS)
A	Sub total B/F from schedule 1 : -PRELIMINARIES	
B	Sub total B/F from schedule 2 : -CONFERENCE HALL	
C	Sub total B/F from schedule 3:-LOUNGE	
D	Sub total B/F from schedule 4:-LIGHTING PROTECTION	
E	Sub total B/F from schedule 5:-STRUCTURED CABLING	
F	Contingency	200,000.00
	TOTAL FOR ELECTRICAL INSTALLATION WORKS CARRIED TO FORM OF TENDER	

Total Amount in words: Kenya Shillings.....

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Subcontractor's Signature and Stamp.....

Address.....

Date.....

PIN NO.....V.A.T Certificate

Witness: Name and Signature.....

Address.....

Date
