

BILL OF QUANTITIES

BILL OF QUANTITIES

ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>GROUND FLOOR</u>				
	EQUIPMENTS				
A	One meter patch cords	60	No.		
B	Three meter patch cords	60	No.		
C	Cat 6e cable in boxes of 300meters	15	No.		
D	Core fibre switch 16-ports POE managed	1	Pcs		
E	48portgiganet POE managed catalyst switch with 4 SFP fibre ports	1	Pcs		
F	48port POE managed switch with 2 SFP ports	1	Pcs		
G	48 port giganet data patch panel	2	No.		
H	Cabinet shelf	1	No.		
I	Data and voice faceplate	60	No.		
J	Dual data and voice faceplate	60	No.		
K	1 U cable managers	4	Pcs		
L	22U cabinet	2	No.		
M	6 way rack mounted power extension	2	No.		
N	50 x 100mm double compartment PVC trunk	600	Lm.		
	ACCESSORIES				
O	Clip boots	100	Pcs		
P	Plastic pegs	100	Pcs		
Q	Cable ties	1	Bags		
R	SFP Connector	6	No.		
S	Drill bits	50	No.		
	Subtotal ground floor to collection page				

ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	POWER BACKUP				
A	1.5KVA UPS	1	No.		
	INTER CONNECTIVITY				
B	8-core single mode fiber optic cable from data center to main office	300	Lm		
C	Trenching and laying of the of the fiber cable	300	Lm		
	Sub-total to collection page				
	COLLECTION PAGE				
	Collection from page 1				
	Collection from page 2				
	Total ground floor to summary page				
	<u>FIRST FLOOR</u>				
	EQUIPMENTS				
D	One meter patch cords	50	No.		
E	Three meter patch cords	50	No.		
F	Cat 6e cable (siemon) in boxes of 300meters	14	No.		
G	48port POE managed cisco catalyst switch with 4 SPF fibre ports	1	No.		
H	48 port giganet data patch panel	2	No.		
I	Cabinet shelf	1	No.		
J	Data and voice faceplate	50	No.		
	Total to collection page.				

ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Dual data and voice faceplate	50	No.		
B	1 U gigaset cable managers	2	No.		
C	12U cabinet	2	No.		
D	6 way rack mounted power extention	2	No.		
E	50 x 100mm double compartment PVC trunk	600	Lm		
ACCESSORIES					
F	Clip boots	100	Pcs		
G	Plastic pegs	100	No.		
H	Cable ties	1	Pcs		
I	SFP Connector	6	No.		
J	Drill bits	50	No.		
POWER BACK UP					
K	1,5KVA UPS power back up	1	No.		
L	8 core single mode fiber optic cable	100	Roll		
Subtotal First Floor to Collection page					
COLLECTION PAGE					
Collection from page 3					
Collection from page 4 above					
Total first floor to summary page					

ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SECOND FLOOR</u>				
	EQUIPMENTS				
A	One meter patch cords	80	No.		
B	Three meter patch cords	80	No		
C	Cat 6e cable (siemon) in boxes of 300meters	18	No		
D	48port POE managed cisco catalyst switch with 4 SPF fibre ports	2	No		
E	48 port gigaset data patch panel	2	No		
F	Cabinet shelf	1	No		
G	Data and voice faceplate	60	No		
H	Dual data and voice faceplate	60	No		
I	1 U gigaset cable managers	2	No		
J	12U cabinet	2	No		
K	6 way rack mounted power extension	2	No		
L	50 x 100mm double compartment PVC trunk	600	Lm		
	ACCESSORIES				
M	Clip boots	100	Pcs		
N	Plastic pegs	100	Pcs		
O	Cable ties	1	Pcs		
P	SFP Connector	6	No		
Q	Drill bits	50	Pcs		
	POWER BACK UP				
R	1,5KVA UPS power back up	1	No		
S	8 core single mode fiber optic cable	100	Lm		
	Total to Summary page				

ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>THIRD FLOOR</u>				
	EQUIPMENTS				
A	One meter patch cords	50	No.		
B	Three meter patch cords	50	No		
C	Armoured Cat 6e cable (siemon) in boxes of 300meters	14	No		
D	Core fiber switch, 16ports POE Managed		No		
E	48port POE managed cisco catalyst switch with 4 SPF fibre ports	1	No		
F	48 port gigaset data patch panel	2	No		
G	Cabinet shelf	1	No		
H	Data and voice perceptor	50	No		
I	Dual data and voice faceplate	50	No		
J	1 U gigaset cable managers	3	No		
K	12U cabinet	2	No		
L	6 way rack mounted power extension	2	No		
M	50 x 100mm double compartment PVC trunk	2	No		
	ACCESSORIES				
M	Clip boots	100	Pcs		
N	Plastic pegs	100	Pcs		
O	Cable ties	1	Pcs		
P	SFP Connector	6	Pcs		
Q	Drill bits	50	Pcs		
	Total to collection page				

ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
POWER BACK UP					
A	1,5KVA UPS power back up	1	No		
B	8 core single mode fiber optic cable	300	Lm		
Total to Collection page					
COLLECTION PAGE					
Collection from page 5					
Collection from page 6 above					
Total third floor to summary page					
<u>FOURTH FLOOR</u>					
EQUIPMENTS					
C	One meter patch cords	50	No.		
D	Three meter patch cords	50	No.		
E	Armored Cat 6e cable (siemon) in boxes of 300meters	14	No.		
F	Core fiber switch, 16ports POE Managed	1	No.		
G	48port POE managed cisco catalyst switch with 4 SPF fibre ports	1	No.		
H	48 port giganet data patch panel	2	No.		
I	Cabinet shelf	1	No.		
J	Data and voice perceptor	50	No.		
K	Dual data and voice faceplate	50	No.		
L	1 U giganet cable managers	4	No.		
Total to collection page					

ITEM NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	12U cabinet	2	No		
B	6 way rack mounted power extension	2	No		
C	50 x 100mm double compartment PVC trunk	600	Lm		
	ACCESSORIES				
D	Clip boots	100	Pcs		
E	Plastic pegs	100	Pcs		
F	Cable ties	1	No		
G	SFP Connector	6	No		
H	Drill bits	50	Pcs		
	POWER BACK UP				
I	1,5KVA UPS power back up	1	No		
J	8 core single mode fiber optic cable	100	Lm		
K	Wireless access points	18	No		
L	Outdoor armoured CAT 6E cable (siemons) in bones of 300 meters	1	No.		
	Total to Collection page				
	COLLECTION PAGE				
	Collection from page 7				
	Collection from page 8 above				
	Total Fourth Floor to Summary page				

ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<p style="text-align: center;"><u>Summary Page</u></p> <p>Ground Floor</p> <p>First Floor</p> <p>Second Floor</p> <p>Third Floor</p> <p>Fourth Floor</p> <p>Total Networking to Main Summary Page</p>				

ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>2: 0 SERVER ROOM</u>				
A	False floor and ceiling	1	Item		
B	Cable rails underneath and ceiling	2	Lot		
C	Server	2	Lot		
D	Network cabinet 32U 800/800	2	No		
E	Rack mountable 10KVA inverterwith PDU	1	No		
F	Inverter rack	1	No		
G	Fire suppression system	1	Item		
H	Maintenance free batteries 200ah	15	No		
I	Lighting system	4	Item		
J	Complete biometric system	1	Item		
K	Cable rails	4	Lot		
	Total Server Room to Main Summary				

ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>CCTV CAMERAS</u>				
A	Full HD professional outdoor bullet cameras	8	No.		
B	Full HD out door wide range angle cameras	8	No.		
C	Full HD dome camera	56	No.		
D	Aluminum poles-6meters	4	No.		
E	Aluminum mounting brackets	4	Pcs		
F	Aluminum poles installations	4	No.		
G	CAT 6 cable (STP) 300meters roll	9	Roll		
H	NVR 42 Channel	1	No.		
I	55" touch screen LED monitor	1	No.		
J	42" full HD led monitors	3	No.		
K	Hybrid power backup system	3	No.		
L	Storage server/software	1	No.		
M	Testing and commissioning	Item			
	Total CCTV Cameras to Main Summary				

TELEPHONE SYSTEM

ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SWITCH				
A	Catalyst 3560 x 24 GigE PoE 370W 4 X 1GSFP LAN base	2	Lot		
B	SMARTNET 8 x 5 x NDB Catalyst 3650 x 24 G Duration 12months	2	Lot		
C	AC Power cord (UK) C13BS1363 2.5m	1	Pcs		
D	Console cable 6feet with USB type A and mini B	1	No.		
E	ROUTER	1	No		
F	2911 AX Bundle w/App SEC Licence application	1	No.		
G	SMARTNET 8 x 5 x NDB 2911 w/3 GE4 EHWICI SM256MB CF	1	No.		
H	Cisco configuration pro express on router flash	1	Lot		
I	256MB compact flush for 1900 2900 3900 ISR	1	No		
J	Security license for 2901-2951	1	No		
K	Removable faceplate for SM slot on 290039004400 ISR	1	No		
L	2901-2921 IOS UNIVERSAL	1	Lot		
M	Unified communication licence 2901-2951	1	No		
N	Communication manager express or SRST-80 seat silence	1	No		
O	WAASX Feature licence PAK (paper) for 2911	1	No		
P	512MB to 2.5GB DRAM upgrade (2GB + 512MB) for 2901-2921	1	No		
Q	Four Port Voice interface Card – FXO (universal)	1	No		
R	16 channel high density voice and video DSP Module	1	No		
	Total to collection page				

ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	2911-AC power supply	4	No		
B	AC Power cord (UK) C13 BS 1363 2.5m	2	No		
C	Insert packout -P1- MSE	4	No		
D	1300 TCP connection Right to use (RTU) for WAAS and /or vWAAS	2	No		
E	AppXlicence for 2900 series	16	No		
F	Data licence for 2901-2951 series	5	No		
G	IP Base licence for 2901-2951	2	No		
H	Blank faceplate for HWIC slot on ISR	2	No		
PHONES					
I	Unified SIP phone 7800 charcoal standard handset with licence	92	No		
J	SIP with CP8800 licence	30	No		
Total to collection page					
COLLECTION PAGE					
Collection from page 11					
Collection from page 12 above					
Total phones to main summary					

MAIN SUMMARY PAGE

Ksh Cts

- 1. Networking-----
- 2. Server room-----
- 3. Cctv Cameras-----
- 4. Phones -----

Total

Add 16% VAT

Add ksh 350,000.00 for project management fee----- 350, 000. 00

Add Ksh1,500,000.00 for contingencies ----- 1,500,000.00

Grand Total -----

Amount in Words-----

Company Seal

Authorized Signature.