APPENDIX 5. SECTION VII – SCHEDULE OF REQUREMENT

	IC SECURITY SYSYTEMS TENDE	D CATECODIES /I OTS	
SUMMARY	IC SECURITI SISTIEMIS TENDE	K CATEGORIES/LOTS	
CATEGORY/LOT	STATION/DESCRIPTION		
	INSTALLATION OF CCTV MAJOR		
	DISTRIBUTION/ TRANSMISSION		
CATEGORY/LOT 1	SUBSTATION		
	INSTALLATION OF CCTV FOR KEY		
CATEGORY/LOT 2	OFFICES		
	INSTALLATION OF ACCESS CONTROL		
CATEGORY/LOT 3	IN SUBSTATIONS & KEY OFFICES		
	SECURITY SYSTEMS FOR FACILITIES		
CATEGORY/LOT 4	AND INFRASTRUCTURE		
	INSTALLATION OF ELECTRIC FENCES		
CATEGORY/LOT 5	FOR KEY SUBSTATIONS		
	INSTALLATION OF INTRUDER		
CATEGORY/LOT 6	ALARMS		

CATEGORY/LOT 1: INSTALLATION OF CCTV IN MAJOR DISTRIBUTION/ TRANSMISSION SUBSTATIONS						
NO	STATION/DESCRIPTION	SYSTEMS	LOCATION			
1	Nairobi West Substation	CCTV	Nairobi West			
2	Kitale depot Substation	CCTV	Kitale			
3	Webuye Substation	CCTV	Webuye			
4	New Bamburi Substation	CCTV	Bamburi			
5	Embu Depot Substation	CCTV	Embu			
6	Manufacturers Training-3no technical persons	ССТУ	To be determined			

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CATEGORY/LOT 2: INSTALLATION OF CCTV FOR KEY OFFICES						
NO	Station/Description	Systems	Location			
1	Kakamega Office	CCTV	Kakamega			
2	Kericho Depot	CCTV	Kericho			
3	Kisii Depot	CCTV	Kisii			
4	Nakuru Depot	ССТУ	Nakuru			
5	Nairobi South	CCTV	Nairobi South			
6	Lukenya Substation	CCTV	Lukenya			

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	Manufacturers Training-3no technical		
7	persons	CCTV	To be determined

CATEGORY/LOT 3: INSTALLATION OF ACCESS CONTROL IN SUBSTATIONS & KEY OFFICES							
NO	STATION/DESCRIPTION	SYSTEMS	LOCATION				
1	Electricity House Kisumu	Access control & CCTV	Kisumu				
2	Electricity House Mombasa	Access control	Mombasa				
3	Electricity House Nakuru	Access control	Nakuru				
	Manufacturers Training-3no technical						
4	persons	Access control	To be determined				

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NO	STATION/DESCRIPTION	SYSTEMS	LOCATION
2	Machakos Substation	CCTV & Access Control	Machakos
2	New Industrial Substation	CCTV & Access Control	Enterprise Rd Nairobi
3	Kikuyu Substation	CCTV & Access Control	Kikuyu
4	Nyahururu stores/ Substation	CCTV & Access Control	Nyahururu
ŗ	Kilifi Substation	CCTV & Access Control	Kilifi
6	6 Homabay Stores	CCTV & Access Control	Homabay
8	Njoro Substation	CCTV & Access Control	Njoro ,Nakuru
Ç	Emali Stores	CCTV & Access Control	Emali
10	Garissa Office	CCTV & Access Control	Garissa
	Manufacturers Training-3no technical		
11	persons	CCTV	To be determined

	CATEGORY/LOT 5: INSTALLATION OF ELECTRIC FENCES/PERIMETER INTRUSION SYSTEM FOR KEY SUBSTATIONS							
NO	STATION/DESCRIPTION	SYSTEMS	LOCATION					
1.	Kiboko Substation	Electric Fence	Kiboko Substation					
2.	Kipevu Substation	Electric Fence	Kipevu SS					
3.	Makuyu Substation	Electric Fence	Makuyu					
4.	Mamlaka Substation	CCTV intrusion system	Mamlaka Substation					
5.	Thika industrial Substation	CCTV intrusion system	Thika industrial SS					
6.	Sarmach Substation	CCTV- intrusion system	Sarmach Substation					
7.	Villa Franka Substation	CCTV intrusion system	Villa Franka					
8.	Eldoret depot and Substation	CCTV intrusion system	Eldoret					
	Manufacturers Training-3no technical							
9.	persons	Electric Fence/CCTV	To be determined					

CATEGORY/LOT 6: INSTALLATION OF INTRUDER ALARMS							
NO	STATION/DESCRIPTION	SYSTEMS	LOCATION				
1.	Eldoret depot	Intrusion detection	Eldoret				
2.	Naivasha office	Intrusion detection	Naivasha				
3.	Ukunda Banking hall-Stores	Intrusion detection	Ukunda				
4.	Nairobi South Depot	Intrusion detection	Nairobi				
5.	Kisii Depot	Intrusion detection	Kisii				
6.	Westlands Substation	Electric Fence	Westlands				
7.	Nairobi North SS	Electric Fence	Nairobi North SS				
8.	Webuye Substation	Electric Fence	Webuye				
	Manufacturers Training-3no technical	Intrusion and Electric					
9.	persons	Fence	To be determined				

PRICE SCHEDULE / BILLS OF QUANTITIES

(Unit Price in all Categories/Lots shall include 12 Months Warranty service and maintenance during the defect Liability period as described in the SLA as well as the manufacturer's equipment warranty as described in the tender)

NAIROBI WEST DEPOT IP- CCTV & ACCESS CONTROL

				Country	Rate in	Amount	Part
No	Item Description	Unit	QTY	Country of origin	KES(Vat Exc)	KES(Vat Exc)	Numbers
А.	5 MPX, WDR Fixed Dome Camera	No.	37				
B.	2MPX PTZ Camera	No.	1				
C.	64-Channel NVR and storage Server upto 40TB	No.	1				
D.	Genetec Video License (per Camera).	No.	38				
E.	IP Access Control System (TYPE B) at Entry (Fingerprint Reader) and Exit (Proximity Reader) complete with Licences, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per Door)	No.	6				
F.	40 Inch 1080P LED Monitor C/W mount accessories	No.	1				
G.	32 Inch 1080P LED Monitor C/W mount accessories	No.	1				
H.	Gig Ethernet To Gig rack-mount Fiber optic Media Converter 30km Range industrial type	No.	2				
	Total Carried to Collection Nairobi	west d	epot pa	ge 1	1		•

	В	ill of Q	Quantiti	es Page 2			
No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount	Part Numbers
А.	Allow for cabling, ducting and necessary accessories	LOT	1				
В.	Network Devices accessories&cabinets-3 Edge switches ,1 core switch	LOT	1				
C.	6 Kva true online UPS	NO	1				
D.	3 Kva true online UPS	NO	2				
E.	1.5 Kva true online UPS	NO	1				
F.	Allow for integration of the system to existing GENETEC server	LOT	1				
G.	Client Work station	LOT	1				
H.	Installation, Testing and Commissioning to client satisfaction	LOT	1				
I.	Biometric Access Control cards	No.	200				
	Total Carried to Collecti	ion Nai	irobi wo	est depot pa	nge 2		

SUMMARY PAGE NAIROBI WEST DEPOT IP- CCTV & ACCESS CONTROL	
	JL
CCTV BILL OF QUANTITIES	
1. Total Carried to collection Page 1	
Nairobi west depot	
2. Total Carried to collection Page 2	
Nairobi west depot	
SUB-TOTAL- NAIROBI WEST DEPOT	
IP- CCTV &ACCESS CONTROL	

CATEGORY/LOT 1: INSTALLATION OF CCTV MAJOR DISTRIBUTION/ TRANSMISSION SUBSTATION
<u>KITALE DEPOT IP- CCTV & ACCESS CONTROL</u>

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	- Part Numbers
А.	5 MPX, WDR Fixed Dome Camera	No.	21				
В.	32-Channel NVR and storage Server upto 40TB	No.	1				
C.	Genetec Video License (per Camera).	No.	21				
D.	IP Access Control System at Entry (TYPE B) (Fingerprint Reader) and Exit (Proximity Reader) complete with Licences, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per door).	No.	6				
Е.	40 Inch 1080P LED Monitor C/W mount accessories	No.	1				
F.	Gig Ethernet To Gig rack- mount Fiber optic Media Converter 30km Range industrial type	No.	2				
	Total Carried to collection	Kitale	depot P	age 1	1		

	Bill of Q	uantiti	es Kita	le depot Pag	e 2				
No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount	Part Numbers		
А.	Allow for cabling, ducting and necessary accessories	LOT	1						
B.	Network Devices accessories&cabinets-3 Edge switches	LOT	1						
C.	3 Kva true online UPS	NO	2						
D.	Allow for integration of the system to existing GENETEC server	LOT	1						
E.	Client Work station	LOT	1						
F.	Installation, Testing and Commissioning to client satisfaction	LOT	1						
G.	Biometric Access Control cards	No.	200						
	Total Carried to collection Kitale depot Page 2								

	SUMMARY PAGE KITALE DEPOT IP- CCTV &ACCESS C &ACCESS CONTROL CCTV BILL OF QUANTITIES							
1.	Total Carried to collection Kitale depot Page 1							
2.	Total Carried to collection Kitale depot Page 2							
	SUB-TOTAL- KITALE DEPOT IP- CCTV &ACCESS CONTROL							

WEBUYE SUBSTATION IP- CCTV & ACCESS CONTROL

				Country	Rate in	Amount	Dout
No	Item Description	Unit	QTY	Country of origin	KES(Vat Exc)	KES(Vat Exc)	- Part Numbers
А	5 MPX, WDR Fixed Dome Camera	No.	16				
В	2MPX PTZ Camera	No.	2				
С	32-Channel NVR and storage Server upto 40TB	No.	1				
D	Genetec Video License (per Camera).	No.	18				
Ε	IP Access Control System at Entry (TYPE A) (Proximity Reader) and Exit (Proximity Reader) complete with Licences, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (Per Door)	No.	4				
F	32 Inch 1080P LED Monitor C/W mount accessories	No.	1				
G	Gig Ethernet To Gig rack- mount Fiber optic Media Converter 30km Range industrial type	No.	2				
	Total Carried to collection W		•				

	Bill of Quantities Webuye Substation Page 2									
No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount	Part Numbers			
А.	Allow for cabling, ducting and necessary accessories	LOT	1							
В.	Network Devices accessories&cabinets-3 Edge switches ,1 core switch	LOT	1							
C.	3 Kva true online UPS	NO	1							
D.	Allow for integration of the system to existing GENETEC server	LOT	1							
E.	Installation, Testing and Commissioning to client satisfaction	LOT	1							
F.	Biometric Access Control Cards	No.	200							
	Total Carried to o									

	SUMMARY PAGE WEBUYE SUBSTATION IP- CCTV &A CCTV &ACCESS CONTROL CCTV BILL OF QUANTITIE	TROL IP-
1.	Total Carried to collection Webuye Substation Page 1	
2.	Total Carried to collection Webuye Substation Page 2	
	SUB-TOTAL-WEBUYE SUBSTATION IP- CCTV &ACCESS CONTROL	

CATEGORY/LOT 1: INSTALLATION OF CCTV MAJOR DISTRIBUTION/ TRANSMISSION SUBSTATION
<u>NEW BAMBURI SUBSTATION IP- CCTV & ACCESS CONTROL</u>

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	- Part Numbers
						·	
А.	5 MPX, WDR Fixed Dome Camera	No.	29				
В.	2MPX PTZ Camera	No.	1				
C.	32-Channel NVR and storage Server upto 40TB	No.	1				
D.	Genetec Video License (per Camera).	No.	30				
E.	IP Access Control System TYPE A at Entry (Proximity Reader) and Exit (Proximity Reader) complete with Licences, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per door).	No.	3				
F.	40 Inch 1080P LED Monitor C/W mount accessories	No.	1				
G.	Gig Ethernet To Gig rack-mount Fiber optic Media Converter 30km Range industrial type	No.	2				
	Total Carried to collectio	Page 1					

Bill of Quantities New Bamburi Substation Page 2

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount	Part Numbers
А.	Allow for cabling, ducting and necessary accessories	LOT	1				
В.	Network Devices accessories&cabinets-3 Edge switches ,1 core switch	LOT	1				
C.	3 Kva true online UPS	NO	2				
D.	1.5 Kva true online UPS	NO	1				
E.	Allow for integration of the system to existing GENETEC server	LOT	1				
F.	Installation, Testing and Commissioning to client satisfaction	LOT	1				
G.	Biometric Access Control cards	NO.	200				
	Total Carried to						

	SUMMARY PAGE NEW BAMBURI SUBSTATION IP- CCT CONTROL IB, CCTV & ACCESS CONTROL CCTV BILL O								
1.	CONTROL IP- CCTV &ACCESS CONTROL CCTV BILL OF QUANTITIES Total Carried to collection New								
1.									
	Bamburi Substation Page 1								
2.	Total Carried to collection New								
	Bamburi Substation Page 2								
	SUB-TOTAL-NEW BAMBURI								
	SUBSTATION IP- CCTV & ACCESS								
	CONTROL								

EMBU DEPOT/SUBSTATION IP- CCTV & ACCESS CONTROL

	Item Description			Country	Rate in	Amount	Part Numbers
No		Unit	QTY	QTY Country of origin K	KES(Vat Exc)	KES(Vat Exc)	
А.	5 MPX, WDR Fixed Dome Camera	No.	10				
B.	32-Channel NVR and storage Server upto 40TB	No.	1				
C.	Genetec Video License (per Camera).	No.	10				
D.	IP Access Control System at Entry TYPE B (Fingerprint Reader) and Exit (Proximity Reader) complete with Licences, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per door).	No.	2				
E.	32 Inch 1080P LED Monitor C/W mount accessories	No.	1				
F.	Gig Ethernet To Gig rack- mount Fiber optic Media Converter 30km Range industrial type	No.	2				
	Total Carried to collection Embu Depot/ Substation Page 1						

	Bill of Quantities Embu Depot/ Substation Page 2								
No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers		
A.	Allow for cabling, ducting and necessary accessories	LOT	1						
B.	Network Devices accessories&cabinets-3 Edge switches ,1 core switch	LOT	1						
C.	3 Kva true online UPS	NO	2						
D.	1.5 Kva true online UPS	NO	1						
E.	Allow for integration of the system to existing GENETEC server	LOT	1						
F.	Client Work station	LOT	1						
G.	Installation, Testing and Commissioning to client satisfaction	LOT	1						
H.	Biometric Access Control cards	No.	200						
	Total Carried to col	ation Page							

	SUMMARY PAGE EMBU DEPOT/ SUBSTATION IP- C	CTV &ACCESS CO	NTROL
	IP- CCTV &ACCESS CONTROL CCTV BILL OF QUAN		
1.	Total Carried to collection Embu		
	Depot/ Substation Page 1		
2.	Total Carried to collection Embu		
	Depot/ Substation Page 2		
	SUB-TOTAL- EMBU		
	DEPOT/SUBSTATION IP- CCTV		
	&ACCESS CONTROL		

TECHNICAL TRAINING

	Bill of Quantities CATEGORY/LOT 1-Technical Training Page 1									
No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers			
А	Manufacturers Training: Factor costs as follows:									
i)	Manufacturers Training at the manufacturers for 3no technical persons (Factor only the cost of training i.e venue ,trainers, transport to and from the training venue and certification)									
ii)	Travelling and accommodation for 3no technical persons	LOT	1		3,500,000.00	3,500,000.00				
	Total Ca CATEGORY/									

SUMMARY PAGE CATEGORY/LOT 1: INSTALLATION OF CCTV MAJOR DISTRIBUTION/ TRANSMISSION SUBSTATION BILL OF QUANTITIES

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1. Sub-total- Nairobi west depot Ip- Cctv & access control	Amount KES(VatExc)
2. Sub-total- Kitale depot/ Substation Ip- Cctv &access control	
3. Sub-total- Webuye Substation Ip- Cctv &access control	
4. Sub-total- New Bamburi Substation Ip- Cctv &access control	
5. Sub-total- Embu Depot /Substation Ip- Cctv &access control	
6. Sub-total- TECHNICAL TRAINING	
SUB-TOTAL- CCTV MAJOR DISTRIBUTION/ TRANSMISSION SUBSTATION	
Add 16% Vat	
GRAND TOTAL CATEGORY/LOT 1: INSTALLATION OF CCTV MAJOR DISTRIBUTION/ TRANSMISSION	
SUBSTATION	

SCHEDULE OF MAINTENANCE CATEGORY/LOT 1: INSTALLATION OF CCTV MAJOR DISTRIBUTION/ TRANSMISSION SUBSTATION

Item	Description	Unit of measure	Quantity	Unit Price VAT Exclusive (Ksh)	Total Price VAT Exclusive (Ksh)
1	Allow maintenance for a period of 1 (one) year done quarterly as per Kplc SLA.	No	4		

NB;

To be done after one year warranty of servicing during period

Item	Description	Qty	Unit Price	Total Price	Total Price VAT
			VAT Excl (VAT Excl (Incl (Ksh)
			Ksh)	Ksh)	

CATEGORY/LOT 1-RECOMMENDED SCHEDULE OF SPARE PARTS

NB: The cost of spare parts shall be budgeted for and consumed in subsequent repair & Maintenance budget after the warranty period on as-and- when needed-basis.

Name of Tenderer______Signature & Official Stamp

SECTION VIII (B) – BILLS OF QUANTITIES (See specifications in a separate section)

CATEGORY/LOT 2: INSTALLATION OF IP-CCTV FOR KEY OFFICES KAKAMEGA OFFICE IP- CCTV & ACCESS CONTROL

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers
А.	5 MPX, WDR Fixed Dome Camera	No.	18				
B.	32-Channel NVR and storage Server upto 20TB	No.	1				
C.	Genetec Video License (per Camera).	No.	18				
D.	IP Access Control System TYPE B at Entry (Fingerprint Reader) and Exit (Proximity Reader) complete with Licences, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per door).	No.	6				
E.	32 Inch 1080P LED Monitor C/W mount accessories	No.	1				
F.	Gig Ethernet To Gig rack- mount Fiber optic Media Converter 30km Range industrial type	No.	2				
	Total Carried to Collection Kaka			1			

	Bill of Quantities Kakamega Office Page 2								
No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers		
А.	Allow for cabling, ducting and necessary accessories		1						
В.	Network Devices accessories&cabinets-3 Edge switches ,1 core switch	LOT	1						
C.	3 Kva true online UPS	NO	2						
D.	Allow for integration of the system to existing GENETEC server	LOT	1						
E.	Client Work station	LOT	1						
F.	Installation, Testing and Commissioning to client satisfaction	LOT	1						
G.	Biometric Access Control cards	No.	200						
	Total Carried to Colle								

	SUMMARY PAGE KAKAMEGA OFFICE IP- CCTV &ACCI BILL OF QUANTITIES	ESS CONT	ROL CCTV
1.	Total Carried to collection Page 1 Kakamega Office		
2.	Total Carried to collection Page 2 Kakamega Office		
	SUB-TOTAL- KAKAMEGA OFFICE - CCTV &ACCESS CONTROL		

CATEGORY/LOT 2: INSTALLATION OF IP-CCTV FOR KEY OFFICES

KERICHO DEPOT IP- CCTV & ACCESS CONTROL

				Country of	Rate in	Amount	Dout
No	Item Description	Unit	QTY	Country of origin	KES(Vat Exc)	KES(Vat Exc)	Part Numbers
А.	5 MPX, WDR Fixed Dome Camera	No.	19				
В.	32-Channel NVR and storage Server up to 20TB	No.	1				
C.	Genetec Video License (per Camera).	No.	19				
D.	IP Access Control System TYPE B at Entry (Fingerprint Reader) and Exit (Proximity Reader) complete with Licences, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per door).	No.	7				
Е.	40 Inch 1080P LED Monitor C/W mount accessories	No.	1				
F.	Gig Ethernet To Gig rack- mount Fiber optic Media Converter 30km Range industrial type	No.	2				
	Total Carried to Collection K						

	Bill of Quantities Kericho Depot Page 2								
No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount	Part Numbers		
А.	Allow for cabling, ducting and necessary accessories		1						
В.	Network Devices accessories&cabinets-3 Edge switches ,1 core switch	LOT	1						
C.	3 Kva true online UPS	NO	1						
D.	1.5 Kva true online UPS	NO	2						
E.	Allow for integration of the system to existing GENETEC server	LOT	1						
F.	Client Work station	LOT	1						
G.	Installation, Testing and Commissioning to client satisfaction	LOT	1						
Н.	Biometric Access Control cards	No.	200						
	Total Carried to Collection Kericho Depot page 2								

	SUMMARY PAGE KERICHO DEPOT IP- CCTV &ACCESS CONTROL CCTV BILL OF QUANTITIES							
1.	Total Carried to collection Page 1 Kericho Depot							
2.	Total Carried to collection Page 2 Kericho Depot							
	SUB-TOTAL- KERICHO DEPOT - CCTV &ACCESS CONTROL							

CATEGORY/LOT 2: INSTALLATION OF IP-CCTV FOR KEY OFFICES <u>KISII DEPOT IP- CCTV & ACCESS CONTROL</u>

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers
А.	5 MPX, WDR Fixed Dome Camera	No.	19				
В.	32-Channel NVR and storage Server upto 20TB	No.	1				
C.	Genetec Video License (per Camera).	No.	19				
D.	IP Access Control System TYPE B at Entry (Fingerprint Reader) and Exit (Proximity Reader) complete with Licenses, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per door).	No.	4				
Е.	40 Inch 1080P LED Monitor C/W mount accessories	No.	1				
F.	Gig Ethernet To Gig rack-mount Fiber optic Media Converter 30km Range industrial type	No.	2				
	Total Carried to Collection						

Bill of Quantities Kericho Depot Page 2

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers
А.	Allow for cabling, ducting and necessary accessories		1				
В.	Network Devices accessories&cabinets-3 Edge switches ,1 core switch	LOT	1				
C.	3 Kva true online UPS	NO	1				
D.	1.5 Kva true online UPS	NO	2				
E.	Allow for integration of the system to existing GENETEC server	LOT	1				
F.	Client Work station	LOT	1				
G.	Installation, Testing and Commissioning to client satisfaction	LOT	1				
Н.	Biometric Access Control cards	No.	200				
	Total Carried to						

	SUMMARY PAGE KISII DEPOT IP- CCTV & ACCESS CON QUANTITIES	TROL CC	FV BILL OF
1.	Total Carried to collection Page 1 Kisii Depot		
2.	Total Carried to collection Page 2 Kisii Depot		
	SUB-TOTAL- KISII DEPOT - CCTV &ACCESS CONTROL		

CATEGORY/LOT 2: INSTALLATION OF IP-CCTV FOR KEY OFFICES

NAKURU DEPOT IP- CCTV & ACCESS CONTROL

No	Item Description	Unit	QTY	Country of origin	Rate in	Amount KES(Vat Exc) Part Numbers	Dort
					KES(Vat Exc)		
А.	5 MPX, WDR Fixed Dome Camera	No.	32				
B.	64-Channel NVR and storage Server up to 24TB	No.	1				
C.	Genetec Video License (per Camera).	No.	32				
D.	IP Access Control System TYPE B at Entry (Fingerprint Reader) and Exit (Proximity Reader) complete with Licences, IP readers with inbuilt controller module, Door Maglock, Door Closure, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (Per door).	No.	4				
E.	40 Inch 1080P LED Monitor C/W mount accessories	No.	1				
F.	Gig Ethernet To Gig rack- mount Fiber optic Media Converter 30km Range industrial type	No.	2				
	Total Carried to Collection Nakuru Depot page 1						

	Bill of Quantities Nakuru Depot Page 2						
No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers
А.	Allow for cabling, ducting and necessary accessories	LOT	1				
B.	Network Devices accessories&cabinets-3 Edge switches,1 core switch	LOT	1				
C.	3 Kva true online UPS	NO	1				
D.	1.5 Kva true online UPS	NO	2				
E.	Allow for integration of the system to existing GENETEC server	LOT	1				
F.	Client Work station	LOT	1				
G.	Installation, Testing and Commissioning to client satisfaction	LOT	1				
H.	Biometric Access Control cards	No.	200				
	Total Carried to Collection Nakuru Depot page 2						

	SUMMARY PAGE NAKURU DEPOT IP- CCTV &ACCESS CONTROL CCTV BILL OF QUANTITIES				
1.	Total Carried to collection Page 1 Nakuru Depot				
2.	Total Carried to collection Page 2 Nakuru Depot				
	SUB-TOTAL- NAKURU DEPOT - CCTV &ACCESS CONTROL				

CATEGORY/LOT 2: INSTALLATION OF IP-CCTV FOR KEY OFFICES

NAIROBI SOUTH DEPOT IP- CCTV & ACCESS CONTROL

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount	Part
						KES(Vat Exc)	Numbers
А.	5 MPX, WDR Fixed Dome Camera	No.	48				
В.	2MPX PTZ Camera	No.	4				
C.	64-Channel NVR and storage Server upto 40TB	No.	1				
D.	Genetec Video License (per Camera).	No.	52				
E.	IP Access Control System TYPE B at Entry (Finger print Reader) and Exit (Proximity Reader) complete with Licences, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per door).	No.	6				
F.	40 Inch 1080P LED Monitor C/W mount accessories	No.	2				
G.	Gig Ethernet To Gig rack- mount Fiber optic Media Converter 30km Range industrial type	No.	2				
	Total Carried to Collection Nairobi South Depot page 1						

	Bill of Quantities Nairobi South Depot Page 2								
No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers		
А.	Allow for cabling, ducting, poles& necessary accessories	LOT	1						
в.	Network Devices accessories&cabinets-6 Edge switches ,1 core switch	LOT	1						
C.	6 KVA true online UPS	NO	1						
D.	3 KVA true online UPS	NO	3						
Е.	1.5 KVA true online UPS	NO	3						
F.	Allow for integration of the system to existing GENETEC server	LOT	1						
G.	Client Work station	LOT	1						
H.	Installation, Testing and Commissioning to client satisfaction	LOT	1						
I.	Biometric Access Control cards	No.	200						
	Total Carried to Collect	ion Na	irobi So	outh Depot p	age 2				

	SUMMARY PAGE NAIROBI SOUTH DEPOT IP- C CCTV BILL OF QUANTITIES	CTV &ACCESS CONTROL
1.	Total Carried to collection Page 1 Nairobi South Depot	Amount KES(Vat Exc)
2.	Total Carried to collection Page 2 Nairobi South Depot	
	SUB-TOTAL- NAIROBI SOUTH DEPOT - CCTV &ACCESS CONTROL	

CATEGORY/LOT 2: INSTALLATION OF IP-CCTV FOR KEY OFFICES

LUKENYA SUBSTATION IP- CCTV & ACCESS CONTROL

				Country of	Rate in	Amount	Part
No	Item Description	Unit	QTY	origin	KES(Vat Exc)	KES(Vat Exc)	Numbers
А.	5 MPX, WDR Fixed Dome Camera	No.	16				
B.	32-Channel NVR and storage Server upto 12TB	No.	1				
C.	Genetec Video License (per Camera).	No.	16				
D.	IP Access Control System TYPE A at Entry (Proximity Reader) and Exit (Proximity Reader) complete with Licences, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per door).	No.	1				
E.	Gig Ethernet To Gig rack- mount Fiber optic Media Converter 30km Range industrial type	No.	2				
	Total Carried to Collection Lu			1			

	Bill of Quantities Lukenya Substation Page 2								
No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount	Part Numbers		
А.	Allow for cabling, ducting, poles& necessary accessories		1						
в.	Network Devices accessories&cabinets-1 Edge switch	LOT	1						
C.	3 Kva true online UPS	NO	1						
D.	Allow for integration of the system to existing GENETEC server	LOT	1						
E.	Installation, Testing and Commissioning to client satisfaction	LOT	1						
F.	Biometric Access Control cards	No.	200						
	Total Carried to Collec								

	SUMMARY PAGE LUKENYA SUBSTATION IP- CCTV &A CCTV BILL OF QUANTITIES	CCESS CO	NTROL
1.	Total Carried to collection Page 1 Lukenya Substation		
2.	Total Carried to collection Page 2		
2.	Lukenya Substation		
	SUB-TOTAL-LUKENYA SUBSTATION CCTV &ACCESS CONTROL		

CATEGORY/LOT 2: INSTALLATION OF CCTV MAJOR DISTRIBUTION/ TRANSMISSION SUBSTATION

TECHNICAL TRAINING

	Bill of Quantities CATEGORY/LOT 2-Technical Training Page 1									
No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers			
А	Manufacturers Training: Factor costs as follows:									
i)	Manufacturers Training at the manufacturers for 3no technical persons (Factor only the cost of training i.e venue ,trainers, transport to and from the training venue and certification)	LOT	1							
ii)	Travelling and accommodation for 3no technical persons	LOT	1		3,500,000.00	3,500,000.00				
	Total Car CATEGORY/I									

SUMMARY PAGE CATEGORY/LOT 2 BILL OF QUANTITIES: INSTALLATION OF IP-CCTV FOR KEY OFFICES

1.	Sub-total- Kakamega Office CCTV IP- CCTV & Access control	
2.	Sub-total- Kericho Depot CCTV IP- CCTV & Access control	
3.	Sub-total- Kisii Depot CCTV IP- CCTV & Access control	
4.	Sub-total- Nakuru Depot CCTV IP- CCTV & Access control	
5.	Sub-total- Nairobi South Depot CCTV IP- CCTV & Access control	
6.	Sub-total- Lukenya Substation CCTV IP- CCTV & Access control	
7.	Sub-total- Technical Training	
	SUB-TOTAL- INSTALLATION OF IP- CCTV FOR KEY OFFICES	
	Add 16% Vat	
	GRAND TOTAL CATEGORY/LOT 2 BILL OF QUANTITIES: INSTALLATION OF IP-CCTV FOR KEY OFFICES	

SCHEDULE OF MAINTENANCE CATEGORY/LOT 2: INSTALLATION OF IP-CCTV FOR KEY OFFICES

	Description	Unit of	Quantity	Unit Price	Total Price
Item		measure		VAT	VAT

				Exclusive (Ksh)	Exclusive (Ksh)
1	Allow maintenance for a	No	4		
	period of 1 (one) year done				
	quarterly as per Kplc SLA.				

NB;

To commence one year after (defect liability period & and first six months of warranty period) of servicing during period

CATEGORY/LOT 2-RECOMMENDED SCHEDULE OF SPARE PARTS

ſ	Item	Description	Qty	Unit Price	Total Price	Total Price VAT
				VAT Excl (VAT Excl (Incl (Ksh)
				Ksh)	Ksh)	

NB: The cost of spare parts shall be budgeted for and consumed in subsequent repair & Maintenance budget after the warranty period on as-and- when needed-basis.

Name of Tenderer	Signature & Official Stamp

SECTION VIII(C)- BILLS OF QUANTITIES

(See specifications in a separate section) CATEGORY/LOT 3: INSTALLATION OF ACCESS CONTROL IN SUBSTATIONS & KEY OFFICES

ELECTRICITY HOUSE KISUMU IP- CCTV & ACCESS CONTROL

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers
A.	5 MPX, WDR Fixed Dome Camera	No.	55				

В.	64-Channel NVR and storage Server up to 40TB	No.	1		
C.	Genetec Video License (per Camera).	No.	55		
D.	Visitor Management system with following components 1 No. Visitor management kiosk, 1No. visitor management smartphone with app, 1 No. visitor management badging printer with 100 badge printing rolls No, 1No. Hand Held visitor scanner, complete with software and licenses as per the specifications and other accessories necessary to complete the installation.	Lot	1		
E.	IP Access Control System TYPE C at Entry (Facial Reader) and Exit (Proximity Reader) complete with Licences, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (Per door).	No.	12		
F.	40 Inch 1080P LED Monitor C/W mount accessories	No.	1		
G.	32 Inch 1080P LED Monitor C/W mount accessories	No.	1		
H.	Gig Ethernet To Gig rack-mount Fiber optic Media Converter 30km Range industrial type	No.	2		
	Total Carried to Collection Electricity Ho	1			

	Bill of Quantities Electricity House Kisumu Page 2										
No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Num bers				
А.	Allow for cabling, ducting and necessary accessories	LOT	1								

В.	Network Devices accessories&cabinets-6 Edge switches ,1 core switch	LOT	1			
C.	6 Kva true online UPS	NO	1			
D.	3 Kva true online UPS	NO	3			
Е.	1.5 Kva true online UPS	NO	2			
F.	Allow for integration of the system to existing GENETEC server	LOT	1			
G.	Client Work station	LOT	1			
Н.	Installation, Testing and Commissioning to client satisfaction	LOT	1			
I.	Establishment of regional Security Control Room	LOT	1	3,500,000.00	3,500,000.00	
J.	Biometric Access Control cards	No.	1000			
	Total Carried to Collection					

	SUMMARY PAGE ELECTRICITY HOUSE KISUMU-IP- CCTV & ACCESS CONTROL CCTV BILL OF QUANTITIES							
1.	Total Carried to collection Page 1 Electricity House Kisumu							
2.	Total Carried to collection Page 2							
	Electricity House Kisumu							
	SUB-TOTAL- ELECTRICITY HOUSE KISUMU-IP- CCTV &ACCESS							

CATEGORY/LOT 3: INSTALLATION OF ACCESS CONTROL IN SUBSTATIONS & KEY OFFICES <u>ELECTRICITY HOUSE NAKURU ACCESS CONTROL SYSTEMS</u>

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers				
А.	IP Access Control System TYPE C at Entry (Facial Reader) and Exit (Proximity Reader) complete with Licences, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (Per door).	No.	10								
В.	Visitor Management system with following components 1 No. Visitor management kiosk, 1No. visitor management smartphone with app, 1 No. visitor management badging printer with 100 badge printing rolls No, 1No. Hand Held visitor scanner, complete with software and licenses as per the specifications and other accessories necessary to complete the installation.	Lot	1								
C.	ACCESS Control enrollment reader compatible with Type A,B&C readers	No.	1								
D.	Client Workstation	No.	1								
E.	Walkthrough detector as per specifications	NO.	2								
F.	Sliding gate as per specifications	LOT	1								
G.	NetworkDevicesaccessories&cabinets-4noEdgeswitches and 1 core switch.	LOT	1								
Н.	3 Kva true online UPS	NO	3								
I.	Installation, Testing, Training and Commissioning to client satisfaction	LOT	1								
J.	Biometric Access Control cards	No.	200								
	Total Carried to Collection Electricity House Nakuru										

CATEGORY/LOT 3: INSTALLATION OF ACCESS CONTROL IN SUBSTATIONS & KEY OFFICES

ELECTRICITY HOUSE MOMBASA ACCESS CONTROL SYSTEMS

NT	Itom Description		OTV	Countr	Rate in	Amount	Part
No	Item Description	Unit	QTY	y of origin	KES(Vat Exc)	KES(Vat Exc)	Numbers
А.	IP Access Control System TYPE C at Entry (Facial Reader) and Exit (Proximity Reader) complete with Licences, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (Per door).	No.	18				
B.	Visitor Management system with following components 1 No. Visitor management kiosk, 1No. Visitor management smartphone with app, 1 No. visitor management-badging printer with 100-badge printing rolls No, 1No. Hand Held visitor scanner, complete with software and licenses as per the specifications and other accessories necessary to complete the installation.	Lot	1				
C.	ACCESS Control enrollment reader compatible with Type A,B&C readers	No.	1				
D.	Network Devices accessories&cabinets-4no Edge switches	LOT	1				
Е.	3 Kva true online UPS	No.	3				
F.	Installation, Testing, Training and Commissioning to client satisfaction	LOT	1				
G.	Biometric Access Control cards	No.	200				
	Total Carried to Collection Electric						

CATEGORY/LOT 3: INSTALLATION OF ACCESS CONTROL IN SUBSTATIONS & KEY OFFICES

TECHNICAL TRAINING

	Bill of Quantities CATEGORY/LOT 3-Technical Training											
No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers					
Α	Manufacturers Training: Factor costs as follows:											
i)	Manufacturers Training at the manufacturers for 3no technical persons (Factor only the cost of training i.e venue ,trainers, transport to and from the training venue and certification)	LOT	1									
ii)	Travellingandaccommodationfor3no technical persons	LOT	1		3,500,000.00	3,500,000.00						
	Total Car CATEGOR											

SUMMARY PAGE: INSTALLATION OF ACCESS CONTROL IN SUBSTATIONS & KEY OFFICES BILL OF QUANTITIES

1.	Total Carried to collection Electricity House Kisumu	
2.	Total Carried to collection Electricity House Nakuru	
3.	Total Carried to collection Electricity House Mombasa	
4.	Total – Technical Training	
	SUB-TOTAL FOR ACCESS CONTROL IN SUBSTATIONS & KEY OFFICES	
	Add 16% Vat	
	GRAND TOTAL INSTALLATION OF ACCESS CONTROL IN SUBSTATIONS & KEY OFFICES	

SCHEDULE OF MAINTENANCE CATEGORY/LOT 3: INSTALLATION OF ACCESS CONTROL IN SUBSTATIONS & KEY OFFICES

Item	Description	Unit of measure	Quantity	Unit Price VAT Exclusive (Ksh)	Total Price VAT Exclusive (Ksh)
1	Allow maintenance for a period of 1 (one) year done quarterly as per Kplc SLA.	No	4		

NB; To be done after one year warranty of servicing during period

CATEGORY/LOT 3-RECOMMENDED SCHEDULE OF SPARE PARTS									
Item	Description	Qty	Unit Price VAT Excl (Ksh)	Total Price VAT Excl (Ksh)	Total Price VAT Incl (Ksh)				

NB: The cost of spare parts shall be budgeted for and consumed in subsequent repair & Maintenance budget after the warranty period on as-and- when needed-basis.

Name of Tenderer______Signature & Official Stamp

SECTION VIII (D)–BILLS OF QUANTITIES (See specifications in a separate section)

CATEGORY/LOT 4: SECURITY SYSTEMS FOR FACILITIES AND INFRASTRUCTURE MACHAKOS SUBSTATION IP- CCTV & ACCESS CONTROL

				Country	Rate in	Amount	Part
No	Item Description	Unit	QTY	Country of origin	KES(Vat Exc)	KES(Vat Exc)	Numbers
А.	5 MPX, WDR Fixed Dome Camera	No.	16				
B.	16-Channel NVR and storage Server upto 12TB	No.	1				
C.	Genetec Video License (per Camera).	No.	16				
D.	IP Access Control System TYPE A at Entry (Proximity Reader) and Exit (Proximity Reader) complete with Licences, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per door).	No.	2				
E.	Gig Ethernet To Gig rack- mount Fiber optic Media Converter 30km Range industrial type	No.	2				
	Total Carried to Collection Mad	chakos	Substat	ion page 1			I

	Bill of Qua	ntities	Macha	kos Substa	ation Page 2		
No	Item Description	Unit	QTY	Countr y of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numb ers
А.	Allow for cabling, ducting and necessary accessories	LOT	1				
В.	Network Devices accessories&cabinets-1-Edge switch.	LOT	1				
C.	3 Kva true online UPS	NO	1				
D.	Allow for integration of the system to existing GENETEC server	LOT	1				
E.	Installation, Integration, Testing and Commissioning to client satisfaction	LOT	1				
F.	Biometric Access Control cards	No.	200				
	Total Carried to Collection	on Mac	hakos \$	Substation	page 2		

	SUMMARY PAGE MACHAKOS SUBSTATION-IP- CCTV &ACCESS CONTROL CCTV BILL OF QUANTITIES							
1.	Total Carried to collection Page 1 Machakos Substation							
2.	Total Carried to collection Page 2 Machakos Substation							
	SUB-TOTAL-MACHAKOS SUBSTATION-IP- CCTV &ACCESS							

CATEGORY/LOT 4: SECURITY SYSTEMS FOR FACILITIES AND INFRASTRUCTURE

NEW INDUSTRIAL SUBSTATION IP- CCTV & ACCESS CONTROL

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers	
А.	5 MPX, WDR Fixed Dome Camera	No.	10					
B.	16-Channel NVR and storage Server upto 12TB	No.	1					
C.	Genetec Video License (per Camera).	No.	10					
D.	IP Access Control System TYPE A at Entry (Proximity Reader) and Exit (Proximity Reader) complete with Licences, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per door).	No.	2					
E.	32 Inch 1080P LED Monitor C/W mount accessories	No.	1					
F.	Gig Ethernet To Gig rack- mount Fiber optic Media Converter 30km Range industrial type	No.	2					
	Total Carried to Collection Ne	Total Carried to Collection New Industrial Substation page 1						

	Bill of Quar	ntities 1	New In	dustrial S	ubstation Page	2	
No	Item Description	Unit	QTY	Countr y of origin	Rate in KES(Vat Exc)	Amount	Part Numb ers
А.	Allow for cabling, ducting and necessary accessories	LOT	1				
В.	Network Devices accessories&cabinets-1- Edge switches.	LOT	1				
C.	3 KVA true online UPS	NO	1				
D.	Allow for integration of the system to existing GENETEC server	LOT	1				
E.	Installation, Testing and Commissioning to client satisfaction	LOT	1				
F.	Biometric Access Control cards	No.	200				
	Total Carried to Collection	on New	Indust	rial Subst	ation page 2		

	SUMMARY PAGE NEW INDUSTRIAL SUBSTATION-IP- C CONTROL CCTV BILL OF QUANTITIES	CTV &AC	CESS
1.	Total Carried to collection Page 1 New Industrial Substation		
2.	Total Carried to collection Page 2 New Industrial Substation		
	SUB-TOTAL-NEW INDUSTRIAL SUBSTATION-IP- CCTV &ACCESS		

CATEGORY/LOT 4: SECURITY SYSTEMS FOR FACILITIES AND INFRASTRUCTURE

KIKUYU SUBSTATION IP- CCTV & ACCESS CONTROL

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat	Amount KES(Vat	Part Numbers
					Exc)	Exc)	
A.	5 MPX, WDR Fixed Dome Camera	No.	10				
B.	16-Channel NVR and storage Server upto 12TB	No.	1				
C.	Genetec Video License (per Camera).	No.	10				
D.	IP Access Control System TYPE A at Entry (Proximity Reader) and Exit (Proximity Reader) complete with Licences, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per door).	No.	2				
E.	32 Inch 1080P LED Monitor C/W mount accessories	No.	1				
F.	Gig Ethernet To Gig rack- mount Fiber optic Media Converter 30km Range industrial type	No.	2				

	Bill of Qu	antitie	s Kiku	yu Substa	tion Page 2		
No	Item Description	Unit	QTY	Countr y of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numb ers
А.	Allow for cabling, ducting and necessary accessories	LOT	1				
В.	Network Devices accessories&cabinets-1-Edge switches.	LOT	1				
C.	3 Kva true online UPS	NO	1				
D.	1.5 Kva true online UPS	NO					
E.	Allow for integration of the system to existing GENETEC server	LOT	1				
F.	Installation, Testing and Commissioning to client satisfaction	LOT	1				
G.	Biometric Access Control cards	No.	200				
	Total Carried to Collect	tion Ki	kuyu S	Substation	page 2		

	SUMMARY PAGE KIKUYU SUBSTATION IP- CCTV & ACCESS CONTROL BILL OF QUANTITIES								
1.	Total Carried to collection Page 1 Kikuyu Substation								
2.	Total Carried to collection Page 2 Kikuyu Substation								
	SUB-TOTAL-KIKUYU SUBSTATION- IP- CCTV &ACCESS								

CATEGORY/LOT 4: SECURITY SYSTEMS FOR FACILITIES AND INFRASTRUCTURE

NYAHURURU DEPOT/ SUBSTATION IP- CCTV & ACCESS CONTROL

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers
A.	5 MPX, WDR Fixed Dome Camera	No.	16				
В.	32-Channel NVR and storage Server upto 12TB	No.	1				
C.	Genetec Video License (per Camera).	No.	16				
D.	IP Access Control System TYPE B at Entry (Fingerprint Reader) and Exit (Proximity Reader) complete with Licences, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per door).	No.	1				
E.	32 Inch 1080P LED Monitor C/W mount accessories	No.	1				
F.	Gig Ethernet To Gig rack- mount Fiber optic Media Converter 30km Range industrial type	No.	2				
	Total Carried to Collection	Nyahur	uru Dep	ot/ Substation	page 1		

	Bill of Quantities Nyahururu Depot/ Substation Page 2								
No	Item Description	Unit	QTY	Countr y of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numb ers		
A.	Allow for cabling, ducting and necessary accessories	LOT	1						
В.	Network Devices accessories&cabinets-2- Edge switches.	LOT	1						
C.	3 Kva true online UPS	NO	1						
D.	1.5 Kva true online UPS	NO	1						
E.	Allow for integration of the system to existing GENETEC server	LOT	1						
F.	Installation, Testing and Commissioning to client satisfaction	LOT	1						
G.	Biometric Access Control cards	No.	200						
	Total Carried to Collection	n Nyah	ururu]	Depot/Sub	ostation page 2				

	SUMMARY PAGE NYAHURURU DEPOT/ SUBSTATION-II CONTROL CCTV BILL OF QUANTITIES	P- CCTV &	ACCESS
1.	Total Carried to collection Page 1 Nyahururu Depot/Substation		
2.	Total Carried to collection Page 2 Nyahururu Depot/Substation		
	SUB-TOTAL-NYAHURURU DEPOT/ SUBSTATION-IP- CCTV &ACCESS		

CATEGORY/LOT 4: SECURITY SYSTEMS FOR FACILITIES AND INFRASTRUCTURE <u>KILIFI DEPOT/ SUBSTATION IP- CCTV & ACCESS CONTROL</u>

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	- Part Numbers
А.	5 MPX, WDR Fixed Dome Camera	No.	4				
B.	2MPX PTZ Camera	No.	1				
C.	5 MPX, WDR Fixed Bullet Camera	No.	14				
D.	32-Channel NVR and storage Server upto 30TB	No.	1				
E.	Genetec Video License (per Camera).	No.	19				
F.	IP Access Control System TYPE B at Entry (Fingerprint Reader) and Exit (Proximity Reader) complete with Licences, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per door).	No.	3				
G.	40 Inch 1080P LED Monitor C/W mount accessories	No.	1				
H.	Gig Ethernet To Gig rack- mount Fiber optic Media Converter 30km Range industrial type	No.	2				

	Bill of Quantities Kilifi Depot/ Substation Page 2						
No	Item Description	Unit	QTY	Countr y of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numb ers
А.	Allow for cabling, ducting, Poles and necessary accessories	LOT	1				
B.	Network Devices accessories&cabinets- 2-Edge switches.	LOT	1				
C.	3 Kva true online UPS	NO	2				
D.	Allow for integration of the system to existing GENETEC server	LOT	1				
Е.	Client Work station	LOT	1				
F.	Installation, Testing and Commissioning to client satisfaction	LOT	1				
G.	Biometric Access Control cards	No.	200				
	Total Carried to Collection Kilifi Depot/Substation page 2						

	SUMMARY PAGE KILIFI DEPOT/ SUBSTATION-IP- CCTV CCTV BILL OF QUANTITIES	V &ACCES	S CONTROL
1.	Total Carried to collection Page 1 Kilifi Depot/Substation		
2.	Total Carried to collection Page 2 Kilifi Depot/Substation		
	SUB-TOTAL-KILIFI DEPOT/ SUBSTATION-IP- CCTV &ACCESS		

CATEGORY/LOT 4: SECURITY SYSTEMS FOR FACILITIES AND INFRASTRUCTURE

HOMABAY STORES IP- CCTV & ACCESS CONTROL

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers
А.	5 MPX, WDR Fixed Dome Camera	No.	12				
B.	24-Channel NVR and storage Server upto 30TB	No.	1				
C.	Genetec Video License (per Camera).	No.	12				
D.	and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per door).	No.	2				
E.	40 Inch 1080P LED Monitor C/W mount accessories	No.	1				
F.	Gig Ethernet To Gig rack-mount Fiber optic Media Converter 30km Range industrial type	No.	2				
Total Carried to Collection Homabay Stores page 1							

Bill of Quantities Homabay Stores Page 2

No	Item Description	Unit	QTY	Countr y of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numb ers
А.	Allow for cabling, ducting, Poles and necessary accessories	LOT	1				
B.	Network Devices accessories&cabinets-2- Edge switches	LOT	1				
C.	3 Kva true online UPS	NO	1				
D.	Allow for integration of the system to existing GENETEC server	LOT	1				
E.	Installation, Testing and Commissioning to client satisfaction	LOT	1				
F.	Biometric Access Control cards	No.	200				
	Total Carried to C						

	SUMMARY PAGE HOMABAY STORES-IP- CCTV & BILL OF QUANTITIES	ACCESS CONTROL CCTV
1.	Total Carried to collection Page 1 Homabay Stores	
2.	Total Carried to collection Page 2 Homabay Stores	
	SUB-TOTAL-HOMABAY STORES-IP- CCTV &ACCESS	

CATEGORY/LOT 4: SECURITY SYSTEMS FOR FACILITIES AND INFRASTRUCTURE
<u>NJORO SUBSTATION IP- CCTV & ACCESS CONTROL</u>

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers
						,	
А.	5 MPX, WDR Fixed Dome Camera	No.	10				
В.	16-Channel NVR and storage Server upto 12TB	No.	1				
C.	Genetec Video License (per Camera).	No.	10				
D.	IP Access Control System TYPE A at Entry (Proximity Reader) and Exit (Proximity Reader) complete with Licences, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per door).	No.	2				
E.	32 Inch 1080P LED Monitor C/W mount accessories	No.	1				
F.	Gig Ethernet To Gig rack-mount Fiber optic Media Converter 30km Range industrial type	No.	2				
	Total Carried to Collect	ion Njo	oro Sub	station page 1			

Bill of Quantities Njoro Substation Page 2

No	Item Description	Unit	QTY	Countr y of origin	Rate in KES(Vat Exc)	Amount	Part Numb ers
А.	Allow for cabling, ducting and necessary accessories	LOT	1				
В.	Network Devices accessories&cabinets- 1-Edge switches.	LOT	1				
C.	3 Kva true online UPS	NO	1				
D.	Allow for integration of the system to existing GENETEC server	LOT	1				
E.	Installation, Testing and Commissioning to client satisfaction	LOT	1				
F.	Biometric Access Control cards	No.	200				
	Total Carried to Co						

	SUMMARY PAGE NJORO SUBSTATION SUBSTATION-IP- CCTV &ACCESS CONTROL CCTV BILL OF QUANTITIES					
1.	Total Carried to collection Page 1 Njoro Substation					
2.	Total Carried to collection Page 2 Njoro Substation					
	SUB-TOTAL-NJORO SUBSTATION- IP- CCTV &ACCESS					

CATEGORY/LOT 4: SECURITY SYSTEMS FOR FACILITIES AND INFRASTRUCTURE

EMALI OFFICE IP- CCTV & ACCESS CONTROL

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers
А.	5 MPX, WDR Fixed Dome Camera	No.	5				
В.	16-Channel NVR and storage Server up to 12TB	No.	1				
C.	Genetec Video License (per Camera).	No.	5				
D.	IP Access Control System TYPE B at Entry (Fingerprint Reader) and Exit (Proximity Reader) complete with Licenses, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per door).	No.	2				
E.	32 Inch 1080P LED Monitor C/W mount accessories	No.	1				
F.	Gig Ethernet To Gig rack-mount Fiber optic Media Converter 30km Range industrial type	No.	2				
	Total Carried to Collecti	on Ema	ali Office	e page 1			

Bill of Quantities Emali Office Page 2

No	Item Description	Unit	QTY	Countr y of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numb ers
А.	Allow for cabling, ducting and necessary accessories	LOT	1				
в.	Network Devices accessories&cabinets-1- Edge switches.	LOT	1				
C.	1.5 Kva true online UPS	NO	1				
D.	Allow for integration of the system to existing GENETEC server	LOT	1				
Е.	Installation, Testing and Commissioning to client satisfaction	LOT	1				
F.	Biometric Access Control cards	No.	200				
	Total Carried to C						

	SUMMARY PAGE EMALI OFFICE-IP- CCTV &ACCESS C OF QUANTITIES	ONTROL (CCTV BILL
1	Total Carried to collection Page 1 Emali Office		
2	Total Carried to collection Page 2 Emali Office		
	SUB-TOTAL-EMALI OFFICE-IP- CCTV &ACCESS		

CATEGORY/LOT 4: SECURITY SYSTEMS FOR FACILITIES AND INFRASTRUCTURE
<u>GARRISA OFFICE IP- CCTV & ACCESS CONTROL</u>

				Country of	Rate in	Amount	Part
No	Item Description	Unit	QTY	Country of origin	KES(Vat Exc)	KES(Vat Exc)	Numbers
А.	5 MPX, WDR Fixed Dome Camera	No.	10				
В.	16-Channel NVR and storage Server up to 12TB	No.	1				
C.	Genetec Video License (per Camera).	No.	10				
D.	IP Access Control System TYPE B at Entry (Fingerprint Reader) and Exit (Proximity Reader) complete with Licenses, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per door).	No.	2				
E.	32 Inch 1080P LED Monitor C/W mount accessories	No.	1				
F.	Gig Ethernet To Gig rack- mount Fiber optic Media Converter 30km Range industrial type	No.	2				
	Total Carried to Collection G		·				

	Bill of	f Quan	tities G	arrisa Off	ice Page 2		
No	Item Description	Unit	QTY	Countr y of origin	Rate in KES(Vat Exc)	Amount KES (Vat Exc)	Part Numb ers
А.	Allow for cabling, ducting and necessary accessories	LOT	1				
в.	Network Devices accessories&cabinets-1- Edge switches.	LOT	1				
C.	3 Kva true online UPS	NO	1				
D.	Allow for integration of the system to existing GENETEC server	LOT	1				
E.	Installation, Testing and Commissioning to client satisfaction	LOT	1				
F.	Biometric Access Control cards	No.	200				
	Total Carried to Co						

	SUMMARY PAGE GARRISA OFFICE-IP- CCTV & ACCESS	S CONTRO	L CCTV
	BILL OF QUANTITIES		
1.	Total Carried to collection Page 1		
	Garrisa Office		
2.	Total Carried to collection Page 2 Garrisa Office		
	SUB-TOTAL-GARRISA OFFICE-IP- CCTV &ACCESS		

CATEGORY/LOT 4: SECURITY SYSTEMS FOR FACILITIES AND INFRASTRUCTURE

TECHNICAL TRAINING

	Bill of Quantities CATEGORY/LOT 4-Technical Training Page 1								
No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers		
А	Manufacturers Training: Factor costs as follows:								
i)	Manufacturers Training at the manufacturers for 3no technical persons (Factor only the cost of training i.e venue ,trainers, transport to and from the training venue and certification)	LOT	1						
ii)	Travelling and accommodation for 3no technical persons	LOT	1		3,500,000.00	3,500,000.00			
	Total Car CATEGORY/L								

SUMMARY PAGE CATEGORY/LOT 4 BILL OF QUANTITIES: SECURITY SYSTEMS FOR FACILITIES AND INFRASTRUCTURE

	Sub-total- Machakos Substation CCTV IP- CCTV & Access control		
1.	Sub-total- New Industrial Substation CCTV IP- CCTV & Access control		
2.	Sub-total- kikuyu Substation CCTV IP- CCTV & Access control		
3.	Sub-total- Nyahururu stores/ Substation CCTV IP- CCTV & Access control		
4.	Sub-total- Kilifi Substation CCTV IP- CCTV & Access control		
5.	Sub-total- Homabay Stores CCTV IP- CCTV & Access control		
6.	Sub-total- Njoro Substation CCTV IP- CCTV & Access control		
7.	Sub-total- Emali Stores CCTV IP- CCTV & Access control		
8.	Sub-total- Garissa Office CCTV IP- CCTV & Access control		
9.	Total – Technical Training		
10.	Total Carried to collection Bill of Quantities CATEGORY/LOT 4-Technical Training Page 1		
	SUB-TOTAL- SECURITY SYSTEMS FOR FACILITIES AND INFRASTRUCTURE		
	Add 16% Vat		
	GRAND TOTAL CATEGORY/LOT 4 BILL OF QUANTITIES: SECURITY SYSTEMS FOR FACILITIES AND INFRASTRUCTURE		

SCHEDULE OF MAINTENANCE CATEGORY/LOT 4: SECURITY SYSTEMS FOR FACILITIES AND INFRASTRUCTURE MACHAKOS SUBSTATION IP- CCTV &ACCESS CONTROL

Item	Description	Unit of measure	Quantity	Unit Price VAT Exclusive (Ksh)	Total Price VAT Exclusive (Ksh)
1	Allow maintenance for a period of 1 (one) year done quarterly as per Kplc SLA.	No	4		

NB;

To be done after one year warranty of servicing during period The cost of spare parts shall be budgeted for and consumed in subsequent repair & Maintenance budget after the warranty period

Item	Description	Qty	Unit Price VAT Excl (Ksh)	Total Price VAT Excl (Ksh)	Total Price VAT

CATEGORY/LOT 4-RECOMMENDED SCHEDULE OF SPARE PARTS

NB: The cost of spare parts shall be budgeted for and consumed in subsequent repair & Maintenance budget after the warranty period on as-and- when needed-basis.

Name of Tenderer______Signature & Official Stamp

SECTION VIII (E) – BILLS OF QUANTITIES (See specifications in a separate section)

CATEGORY/LOT 5: INSTALLATION OF ELECTRIC FENCES &INTRUSION SYSTEM FOR **KEY SUBSTATIONS:**

KIBOKO SUBSTATION ELECTRIC FENCE

	<u>KIBOKO SUBSTATION ELE</u> Bill of Quan			bstation	Page 1		
No	Item Description	Unit	QTY	Coun try of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers
	FREE-STANDING 16 -Lines elephant protection Electric Fence to cover 423m Perimeter comprising 16 strands spaced 100mm comprising of Well treated Wooden Poles and with necessary accessories in conformity with relevant standards and general good practice and allow for works to be installed, tested and Commissioned to client's satisfaction with the following :						
А	Adequate mains energizer Nemtek minimum 10J Output or equivalent and approved complete with back-up battery and Keypad as per the specifications.	No.	2				
В	GSM/IP Module as per detailed specifications.	No	1				
С	Lead out under gate cable including excavating in road works with necessary ducting and making good disturbed surfaces	М	500				
D	Allow for redesigning while repairing and replacing damaged Concreate Poles up to 30% of existing Poles						
	Total Carried to Collection Kiboko S	ubstatio	n page 1				

	Bill of Quan	tities k	Kiboko S	ubstatior	n Page 2		
No	Item Description	Unit	QTY	Coun try of origin	Rate in KES(Vat Exc)	Amount KES(Va t Exc)	Part Number s
A	High tensile 2.5mm fence wire (HT)	м	6598				
В	Fence Poles Allow for well treated Elephant wooden poles as per Elephant protection Electric fence standards	No.	183				
С	Siren Kit complete with box, sounder and strobe 12V,DC Security sounder and strobe with a range of 1 km as per detailed specifications.	No.	1				
D	W-Insulators High density porcelain UV stabilized plastic polythene insulators to adequately cover the installations as per IEE standards	ltem	1				
E	Chain Link Allow for redesigning and reconstructing existing Chain Link with new one while utilizing up to 50% of existing.	ltem	1				
	Total Carried to Collection Kiboko						

	Bill of Quantities Kiboko Substation Page 3									
No	Item Description	Unit	QTY	Coun try of origin	Rate in KES(Vat Exc)	Amount KES(Va t Exc)	Part Number s			
A	Strain –S-insulators STF Black-High density porcelain UV stabilized plastic polythene insulators to adequately cover the installations as per IEE standards	ltem	1							
В	Earthing of the Electric fence as per the IEE regulations and to be done at intervals of 30M	ltem	1							
C	Hatari signs	No	40							
D	Provide for power and Alarm cable as per IEE Standards	ltem	1							
Е	Supply and fix Razor wire along the free- stranding electric fence, conforming to the following specifications:- 980mm diameter coil size Double Galvanized Razor wire ; Blade profile - Ripper Razor Wire; Stretch factor - maximum of 10M per coil and secured with steel plates at 1M centers and with two coatings to prevent rust.	М	550							
	Total Carried to Collection Kiboko									

Bill of Quantities Kiboko Substation Page 4

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Va t Exc)	Part Number s
A	EnergizerCabinetwithfollowing specs:EnergizerSteelcabinet500x500x250mmfabricatedfrom25x25x3mmanglelineframingand3mmthickplainsheetwithlockabledoorincludingpaintingandmounting to Clients approval.	No.	1				
В	AVS 30A voltage guard	No.	1				
С	Allow for installation, configurations, Training, Testing and Commissioning to clients satisfaction. Installation to include all necessary civil and electrical works. Contractor to submit 3no identical handover box files will all correspondences of works and including drawings, layouts, manuals. To be done in consultation with the client for more details and format.	ltem	1				
	Total Carried to Collection Kibo						

SUMMARY PAGE KIBOKO SUBSTATION ELECTRIC FENCE BILL OF QUANTITIES

1.	Total Carried to Collection Kiboko Substation page 1	
2.	Total Carried to Collection Kiboko Substation page 2	
3.	Total Carried to Collection Kiboko Substation page 3	
4.	Total Carried to Collection Kiboko Substation page 4	
	SUB-TOTAL- KIBOKO SUBSTATION ELECTRIC FENCE	

KIPEVU SUBSTATION ELECTRIC FENCE

	Bill of Qua	ntities]	Kipevu S	Substatio	n Page 1		
No	Item Description	Unit	QTY	Coun try of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers
	ELECTRIC FENCE ABOVE MASONRY WALLING The following in electric fence to cover 262m Perimeter comprising 8 strands spaced 100mm centers above the walling and comprising necessary accessories in conformity with relevant standards and general good practice and allow for works to be installed, tested and Commissioned to client's satisfaction with the following :						
A	Adequate mains energizer DRUID 15Nemtek 4.6J Output or equal and approved complete with back-up battery and Keypad as per the specifications.	No.	1				
В	GSM/IP Module as per detailed specifications.	No	1				
С	Lead out under gate cable including excavating in road works with necessary ducting and making good No.	м	300				
	Total Carried to Collection Kipev	u Subst	tation pa	ge 1			

	Bill of Quantities Kipevu Substation Page 2								
No	Item Description	Unit	QTY	Coun try of origin	Rate in KES(Vat Exc)	Amount KES(Va t Exc)	Part Number s		
А	High tensile 1.6mm fence wire (HT)	М	2550						
В	Fence Poles Double Galvanized Electroplated, double galvanized square tube 25 x 25 x 1.5mm thick steel Hollow Square Tube for W and S insulators posts with plastic top caps. Apply Metal primer before installing and 2 finishing coats of 1st quality gloss paint "Crown" including embedding 200mm deep in the reinforced columns and walls Complete with metal lugs and approved by the client.	No.	100						
С	Siren Kit complete with box, sounder and strobe 12V,DC Security sounder and strobe with a range of 1 km as per detailed specifications.	No.	1						
D	W-Insulators High density porcelain UV stabilized plastic polythene insulators to adequately cover the installations as per IEE standards	ltem	1						
	Total Carried to Collection Kipev	u Substatio	n page	2					

	Bill of Quar	tities Kipe	evu Sub	station Pa	age 3		
No	Item Description	Unit	QTY	Coun try of origin	Rate in KES(Vat Exc)	Amount KES(Va t Exc)	Part Number s
А	Strain –S-insulators STF Black-High density porcelain UV stabilized plastic polythene insulators to adequately cover the installations as per IEE standards	ltem	1				
В	Earthing of the Electric fence as per the IEE regulations and to be done at intervals of 30M	ltem	1				
С	Hatari signs	No	30				
D	Provide for power and Alarm cable as per IEE Standards	ltem	1				
Е	Supply and fix Razor wire at the top of the boundary wall conforming to the following specifications:- coil size - 450mm diameter, Blade profile - Ripper Razor Wire, Stretch factor - maximum of 10M per coil and secured with steel plates at 1M centers (Galvanized)	М	301				
	Total Carried to Collection Kipevu Substation page 3						

Bill of Quantities Kipevu Substation Page 4

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Va t Exc)	Part Number s
A	Energizer Cabinet with following specs: Energizer steel cabinet 500x500x250mm fabricated from 25x25x3mm angle line framing and 3mm thick plain sheet with lockable door including painting and mounting to Clients approval.	No.	1				
В	AVS 30A voltage guard	No.	1				
С	Allow for installation, configurations, Training, Testing and Commissioning to clients satisfaction. Installation to include all necessary civil and electrical works. Contractor to submit 3no identical handover box files will all correspondences of works and including drawings, layouts, manuals. To be done in consultation with the client for more details and format.	ltem	1				
	Total Carried to Collection K						

SUMMARY PAGE KIPEVU SUBSTATION ELECTRIC FENCE BILL OF QUANTITIES

1.	Total Carried to Collection Kipevu Substation page 1	
2.	Total Carried to Collection Kipevu Substation page 2	
3.	Total Carried to Collection Kipevu Substation page 3	
4.	Total Carried to Collection Kipevu Substation page 4	
	SUB-TOTAL- KIPEVU SUBSTATION ELECTRIC FENCE	

	MAKUYU SUBSTATION ELECTRIC FENCE								
	Bill of Quantities Makuyu Substation Page 1								
		X							
No	Item Description	Unit	QTY			Amount			

				Country of origin	Rate in KES(Va t Exc)	KES(Vat Exc)	Part Numbers
	ELECTRIC FENCE ABOVE MASONRY WALLING The following in electric fence to cover 297m Perimeter comprising 8 strands spaced 100mm centers above the walling and comprising necessary accessories in conformity with relevant standards and general good practice and allow for works to be installed, tested and Commissioned to client's satisfaction with the following :						
А	Adequate mains energizer DRUID 15 Nemtek 4.6J Output or equal and approved complete with back-up battery and Keypad as per the specifications.	No.	1				
В	GSM/IP Module as per detailed specifications.	No	1				
С	Lead out under gate cable including excavating in road works with necessary ducting and making good No.	М	200				
	Total Carried to Collection	Makuy	u Substa	ation page 1			

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Va t Exc)	Amount KES(Vat Exc)	Part Number s
А	High tensile 1.6mm fence wire (HT)	М	3088				
В	Fence Poles Double Galvanized Electroplated, double galvanized square tube 25 x 25 x 1.5mm thick steel Hollow Square Tube for W and S insulators posts with plastic top caps. Apply Metal primer before installing and 2 finishing coats of 1st quality gloss paint "Crown" including embedding 200mm deep in the reinforced columns and walls Complete with metal lugs and approved by the client.	No.	130				
C	Siren Kit complete with box, sounder and strobe 12V,DC Security sounder and strobe with a range of 1 km as per detailed specifications.	No.	1				
D	W-InsulatorsHighdensityporcelainUVstabilizedplasticpolytheneinsulators to adequately cover theinstallations as per IEE standards	ltem	1				
	Total Carried to Collection Makuyu	ı Substa	ation pa	age 2			

	Bill of Quantities	s Maku	yu Sub	station Pag	e 3		
No	Item Description	Unit	QTY	Country of origin	Rate in KES(V at Exc)	Amount KES(Va t Exc)	Part Numbers
A	Strain –S-insulators STF Black-High density porcelain UV stabilized plastic polythene insulators to adequately cover the installations as per IEE standards	ltem	1				
В	Earthing of the Electric fence as per the IEE regulations and to be done at intervals of 30M	ltem	1				
С	Hatari signs	No	30				
D	Provide for power and Alarm cable as per IEE Standards	ltem	1				
E	Supply and fix Razor wire at the top of the boundary wall conforming to the following specifications:- coil size - 450mm diameter, Blade profile - Ripper Razor Wire, Stretch factor - maximum of 10M per coil and secured with steel plates at 1M centers (Galvanized)	М	386				
	Total Carried to Collection Makuyu Su						

Bill of Quantities Makuyu Substation Page 4

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Va t Exc)	Part Numbers
A	EnergizerCabinetwithfollowing specs:EnergizerSteelcabinet500x500x250mmfabricatedfrom25x25x3mmanglelineframingand3mmthickplainsheetwithlockabledoorincludingpaintingandmounting to Clients approval.	No.	1				
В	AVS 30A voltage guard	No.	1				
С	Allow for installation, configurations, Training, Testing and Commissioning to clients satisfaction. Installation to include all necessary civil and electrical works. Contractor to submit 3no identical handover box files will all correspondences of works and including drawings, layouts, manuals. To be done in consultation with the client for more details and format.	ltem	1				
	Total Carried to Collection Mak	uyu Sub	station	page 4			

	SUMMARY PAGE MAKUYU SUBSTATION ELECTRIC FENCE BILL OF QUANTITIES				
1.	Total Carried to Collection Makuyu				
	Substation page 1				

2.	Total Carried to Collection Makuyu Substation page 2	
3.	Total Carried to Collection Makuyu Substation page 3	
4.	Total Carried to Collection Makuyu Substation page 4	
	SUB-TOTAL- MAKUYU SUBSTATION ELECTRIC FENCE	

MAMLAKA SUBSTATION CCTV

	Bi	ll of Quant	tities N	Iamlaka	Substation	n Page 1		
No	Item Description	١	Unit	QTY			Amount	

				Country of origin	Rate in KES(Vat Exc)	KES(Vat Exc)	Part Numbers
А.	5 MPX, WDR Fixed Dome Camera	No.	10				
В.	16-Channel NVR and storage Server upto 12TB	No.	1				
C.	Genetec Video License (per Camera).	No.	10				
D.	IP Access Control System TYPE A at Entry (Proximity Reader) and Exit (Proximity Reader) complete with Licences, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per door).	No.	2				
E.	32 Inch 1080P LED Monitor C/W mount accessories	No.	1				
F.	Gig Ethernet To Gig rack- mount Fiber optic Media Converter 30km Range industrial type	No.	2				
	Total Carried to Collection Mar						

	Bill of	' Quant	tities M	amlaka P	age 2		
No	Item Description	Unit	QTY	Countr y of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numb ers
А.	Allow for cabling, ducting and necessary accessories	LOT	1				
В.	Network Devices accessories&cabinets-1-Edge switches.	LOT	1				
C.	3 Kva true online UPS	NO	1				
D.	Allow for integration of the system to existing GENETEC server	LOT	1				
E.	Installation, Testing and Commissioning to client satisfaction	LOT	1				
	Biometric Access Control cards	No.	200				
	Total Carried to Co	ollectio	n Marr	nlaka page	2		

	SUMMARY PAGE MAMLAKA SUBSTATION-IP- CCTV &	CCESS C	ΟΝΤΡΟΙ
		AUCESS C	UNIKUL
	CCTV BILL OF QUANTITIES		
1.	Total Carried to collection Page 1		
	Mamlaka Substation		
2.	Total Carried to collection Page 2		
	Mamlaka Substation		
	SUB-TOTAL-MAMLAKA		
	SUBSTATION-IP- CCTV &ACCESS		
1			

THIKA INDUSTRIAL SUBSTATION CCTV

	Bill of Quan	tities T	hika Ind	lustrial Sub	station Page	1	
No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers
А.	5 MPX, WDR Fixed Dome Camera	No.	10				
В.	16-Channel NVR and storage Server up to 12TB	No.	1				
C.	Genetec Video License (per Camera).	No.	10				
D.	IP Access Control System TYPE A at Entry (Proximity Reader) and Exit (Proximity Reader) complete with Licences, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per door).	No.	2				
E.	32 Inch 1080P LED Monitor C/W mount accessories	No.	1				
F.	Gig Ethernet To Gig rack- mount Fiber optic Media Converter 30km Range industrial type	No.	2				
	Total Carried to Collection T	hika In	dustrial	page 1			

	Bill of Quantities Thika Industrial Page 2									
No	Item Description	Unit	QTY	Countr y of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numb ers			
А.	Allow for cabling, ducting and necessary accessories	LOT	1							
в.	Network Devices accessories&cabinets-1- Edge switches.	LOT	1							
C.	3 Kva true online UPS	NO	1							
D.	Allow for integration of the system to existing GENETEC server	LOT	1							
E.	Installation, Testing and Commissioning to client satisfaction	LOT	1							
F.	Biometric Access Control cards	No.	200							
	Total Carried to Coll									

	SUMMARY PAGE THIKA INDUSTRIAL SUBSTATION-IP- CCTV & ACCESS CONTROL CCTV BILL OF QUANTITIES						
1.	Total Carried to collection Page 1 Thika Industrial Substation						
2.	Total Carried to collection Page 2 Thika Industrial Substation						
	SUB-TOTAL-THIKA INDUSTRIAL SUBSTATION-IP- CCTV &ACCESS						

SARMACH SUBSTATION CCTV

Bill of Quantities Sarmach Substation Page 1								
No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers	
А.	5 MPX, WDR Fixed Dome Camera	No.	10					
В.	16-Channel NVR and storage Server up to 12TB	No.	1					
C.	Genetec Video License (per Camera).	No.	10					
D.	IP Access Control System TYPE A at Entry (Proximity Reader) and Exit (Proximity Reader) complete with Licences, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per door).	No.	2					
E.	32 Inch 1080P LED Monitor C/W mount accessories	No.	1					
F.	Gig Ethernet To Gig rack- mount Fiber optic Media Converter 30km Range industrial type	No.	2					
	Total Carried to Collection Sarmach page 1							

	Bill of Quantities Sarmach Page 2									
No	Item Description	Unit	QTY	Countr y of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numb ers			
А.	Allow for cabling, ducting and necessary accessories	LOT	1							
В.	Network Devices accessories&cabinets-1-Edge switches.	LOT	1							
C.	3 Kva true online UPS	NO	1							
D.	Allow for integration of the system to existing GENETEC server	LOT	1							
E.	Installation, Testing and Commissioning to client satisfaction	LOT	1							
	Biometric Access Control cards	No.	200							
	Total Carried to C									

-		~~~~~~	
	SUMMARY PAGE SARMACH SUBSTATION-IP- CCTV &A	CCESS CC	DNTROL
	CCTV BILL OF QUANTITIES		
1.	Total Carried to collection Page 1		
	Sarmach Substation		
	Sarmaen Substation		
2.	Total Carried to collection Page 2		
4.	e e		
	Sarmach Substation		
	SUB-TOTAL-SARMACH		
	SUBSTATION-IP- CCTV &ACCESS		
	SUBSTATION-II - CCTV &ACCESS		

CATEGORY/LOT 5: INSTALLATION OF ELECTRIC FENCES &INTRUSION SYSTEM FOR KEY SUBSTATIONS:

VILLA FRANCA SUBSTATION CCTV

	Bill of Quantities Villa Franca Substation Page 1							
				Coun	Rate in	Amount		
No	Item Description	Unit	QTY	try of origi n	KES(Vat Exc)	KES(Vat Exc)	Part Numbers	
А.	5 MPX, WDR Fixed Dome Camera	No.	10					
B.	16-Channel NVR and storage Server upto 12TB	No.	1					
C.	Genetec Video License (per Camera).	No.	10					
D.	IP Access Control System TYPE A at Entry (Proximity Reader) and Exit (Proximity Reader) complete with Licenses, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per door).	No.	2					
Е.	32 Inch 1080P LED Monitor C/W mount accessories	No.	1					
F.	Gig Ethernet To Gig rack- mount Fiber optic Media Converter 30km Range industrial type	No.	2					
	Total Carried to Collection Villa	Franc	a page 1					

Bill of Quantities Villa Franca Page 2

No	Item Description	Unit	QTY	Countr y of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numb ers
А.	Allow for cabling, ducting and necessary accessories	LOT	1				
В.	Network Devices accessories&cabinets-1-Edge switches.	LOT	1				
C.	3 Kva true online UPS	NO	1				
D.	Allow for integration of the system to existing GENETEC server	LOT	1				
E.	Installation, Testing and Commissioning to client satisfaction	LOT	1				
F.	Biometric Access Control cards	No.	200				
	Total Carried to Co	ollectio	n Villa	Franca pa	nge 2		

	SUMMARY PAGE VILLA FRANCA SUBSTATION-IP- CCTV &ACCESS CONTROL CCTV BILL OF QUANTITIES							
1	Total Carried to collection Page 1 Villa Franca Substation							
2	Total Carried to collection Page 2 Villa Franca Substation							
	SUB-TOTAL-VILLA FRANCA SUBSTATION-IP- CCTV &ACCESS							

ELDORET DEPOT IP- CCTV & ACCESS CONTROL

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers
А.	5 MPX, WDR Fixed Dome Camera	No.	52				
в.	64-Channel NVR and storage Server up to 40TB	No.	1				
C.	Genetec Video License (per Camera).	No.	52				
D.	IP Access Control System TYPE B at Entry (Fingerprint Reader) and Exit (Proximity Reader) complete with Licenses, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per door).	No.	4				
Ε.	40 Inch 1080P LED Monitor C/W mount accessories	No.	1				
F.	32 Inch 1080P LED Monitor C/W mount accessories	No.	1				
G.	Gig Ethernet To Gig rack- mount Fiber optic Media Converter 30km Range industrial type	No.	2				
	Total Carried to Collection Eld	oret De	pot Cct	v page 1			

	Bill of Qua	ntities	Eldore	t Depot Co	ctv Page 2		
No	Item Description	Unit	QTY	Countr y of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numb ers
А.	Allow for cabling, ducting and necessary accessories		1				
в.	Network Devices accessories&cabinets-5 Edge switches ,1 core switch	LOT	1				
с.	6 Kva true online UPS	NO	1				
D.	3 Kva true online UPS	NO	2				
Ε.	1.5 Kva true online UPS	NO	2				
F.	Allow for integration of the system to existing GENETEC server	LOT	1				
G.	Client Work station	LOT	1				
н.	Installation, Testing and Commissioning to client satisfaction	LOT	1				
	Total Carried to Collecti	on Eld	oret De	epot Cctv	page 2		

	SUMMARY PAGE ELDORET DEPOT IP- CCTV & ACCESS	CONTRO	L CCTV
	BILL OF QUANTITIES		
1.	Total Carried to collection Page 1		
	Eldoret Depot Cctv		
2.	Total Carried to collection Page 2		
	Eldoret Depot Cctv		
	SUB-TOTAL- ELDORET DEPOT -IP- CCTV &ACCESS		

CATEGORY/LOT 5: INSTALLATION OF ELECTRIC FENCES &INTRUSION SYSTEM FOR KEY SUBSTATIONS:

KIPEVU SUBSTATION CCTV

	Bill of	Quantit	ies Kipev	vu Substa	ation Page 1		
No	Item Description	Unit	QTY	Coun try of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers
A.	5 MPX, WDR Fixed Dome Camera	No.	12				
В.	16-Channel NVR and storage Server up to 12TB	No.	1				
C.	Genetec Video License (per Camera).	No.	12				
D.	IP Access Control System TYPE A at Entry (Proximity Reader) and Exit (Proximity Reader) complete with Licenses, IP readers with inbuilt controller module, Door Maglock, Door Closure and all necessary accessories to complete their installation and which must be compatible and shall be linked to existing GENETEC network (per door).	No.	3				
E.	32 Inch 1080P LED Monitor C/W mount accessories	No.	1				
F.	Gig Ethernet To Gig rack-mount Fiber optic Media Converter 30km Range industrial type	No.	2				
	Total Carried to Collection	Kipevu	Substat	ion page	1		

Bill of Quantities Kipevu Substation s Page 2

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES (Vat Exc)	Part Numb ers
А.	Allow for cabling, ducting and necessary accessories	LOT	1				
В.	Network Devices accessories&cabinets-1-Edge switches.	LOT	1				
C.	3 Kva true online UPS	NO	1				
D.	1.5 Kva true online UPS	NO	1				
Е.	Allow for integration of the system to existing GENETEC server	LOT	1				
F.	Installation, Testing and Commissioning to client satisfaction	LOT	1				
G.	Biometric Access Control cards	No.	200				
	Total Carried to Collec						

	SUMMARY PAGE KIPEVU SUBSTATION-IP- CCTV	&ACCESS CONTROL CCT	V
	BILL OF QUANTITIES		
1.	Total Carried to collection Page 1		
	Kipevu Substation		
2.	Total Carried to collection Page 2 Kipevu Substation		
	SUB-TOTAL- KIPEVU SUBSTATION - IP- CCTV &ACCESS		

CATEGORY/LOT 5: INSTALLATION OF ELECTRIC FENCES &INTRUSION SYSTEM FOR KEY SUBSTATIONS <u>TECHNICAL TRAINING</u>

	Bill of Quantities CATEGORY/LOT 5-Technical Training Page 1							
No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers	
Α	Manufacturers Training: Factor costs as follows:							
i)	Manufacturers Training at the manufacturers for 3no technical persons (Factor only the cost of training i.e venue ,trainers, transport to and from the training venue and certification)	LOT	1					
ii)	Travellingandaccommodationfor3no technical persons	3,500,000.00						
	Total Ca CATEGORY/I							

SUMMARY PAGE CATEGORY/LOT 5 BILL OF QUANTITIES: INSTALLATION OF ELECTRIC FENCES &INTRUSION SYSTEM FOR KEY SUBSTATIONS

1.	Sub-Total Kiboko Substation Electric Fence	
2.	Sub-Total Kipevu Substation Electric Fence	

3.	Sub-Total Makuyu Substation Electric Fence	
4.	Sub-Total Mamlaka Substation CCTV &	
	Access	
5.	Sub-Total Thika industrial Substation CCTV	
	& Access	
6.	Sub-Total Sarmach Substation CCTV &	
	Access	
7.	Sub-Total Villa Franka Substation CCTV &	
	Access	
8.	Sub-Total Eldoret depot CCTV	
9.	Sub-Total Kipevu Substation CCTV & Access	
	Sub-total Total Carried to collection Bill of	
	Quantities CATEGORY/LOT 5-Technical	
	Training Page 1	
	SUB-TOTAL- SECURITY SYSTEMS FOR	
	FACILITIES AND INFRASTRUCTURE	
	Add 16% Vat	
	GRAND TOTAL- CATEGORY/LOT 5:	
	INSTALLATION OF ELECTRIC FENCES	
	& INTRUSION SYSTEM FOR KEY	
	SUBSTATIONS	

SCHEDULE OF MAINTENANCE CATEGORY/LOT 5: INSTALLATION OF ELECTRIC FENCES &INTRUSION SYSTEM FOR KEY SUBSTATIONS:

	Description	Unit of	Quantity	Unit Price	Total Price
Item		measure		VAT	VAT Exclusive
				Exclusive	(Ksh)

				(Ksh)	
1	Allow maintenance for a period	No	4		
	of 1 (one) year done quarterly as				
	per Kplc SLA.				

NB;

To be done after one year warranty of servicing during period

Item	Description	Qty	Unit Price VAT Excl (Ksh)	Total Price VAT Incl (Ksh)

CATEGORY/LOT 5-RECOMMENDED SCHEDULE OF SPARE PARTS

NB: The cost of spare parts shall be budgeted for and consumed in subsequent repair & Maintenance budget after the warranty period on as-and- when needed-basis.

Name of Tenderer______Signature & Official Stamp

SECTION VIII (F)-BILLS OF QUANTITIES

(See specifications in a separate section) CATEGORY/LOT 6: INSTALLATION OF INTRUDER ALARMS/INTRUSION DETECTION SYSTEMS COMMERCIAL OFFICES

ELDORET DEPOT STORES/OFFICE ALARMS BILL OF QUANTITIES ELDORET DEPOT STORES/OFFICE ALARMS BILL OF QUANTITIES PAGE 1

ITEM	DESCRIPTION	UNIT	QTY	RATE	KSHS
	CONTROL PANEL WITH SOFTWARE AND PROGRAMMING				
Α	16-zones input expandable to more than 40 zones and with				
	Keypad zones LCD Keypad with infrared receiver and battery				
	as Pro - Sys 128 or equal and approved.				
	At least more than 4-zones partitioning				
	Accommodate more than 50 user codes				
	4 or more PGM (programmable output)				
	Allow for IP Module and GSM connection to interface with				
	computers, printer and other computer networks.				
	GSM connectivity to allow events communication via mobile	NO	1		
В	MOTION DETECTORS (PIR)				
	Indoor Dual element sensor.				
	12m (40ft), 110 view angle.				
	False alarms reduction facilities.				
	Interlock sensor geometry.				
	Automatic temperature compensation.				
	Sensitivity adjustment.				
	Protection from UV rays.	NO	8		
С	POWER SUPPLY UNIT(P.S.U.)				
	Complete with back-up battery (12v, 7AH).				
	Output current 3A.				
	Output voltage 13.6-14vdc on mains power.				
	Load regulation 5%				
	Battery recharges 13 hours.	NO	2		
D	4-Channel LONG RANGE ALARM REMOTE RECEIVER KIT				
	Operating voltage 12vdc.				
	Operating range more than 200m radius.				
	Dip-switch coding facility				
	Momentary/latching relay contacts	NO	1		
	Complete with two remote buttons.				
E	Extra Remotes Buttons	NO	2		
	SIREN				
_	Complete unit with built-in strobe				
F	Operating voltage 10-14.5vdc with reverse polarity				
	protection.				
	current(hold-off) siren-230mA(typical)				
	Siren output-11dBA@1M,standby 108dBA@1M.				
	Strobe flash rate-120/min,standby 30/min.	NO	1		
	Total Carried to collection Page 1 Eldoret Depot Alarms				

ELDOR	ET DEPOT STORES/OFFICE ALARMS BII	LL OF QU	J ANTIT	IES PAGE	2

ITEM	DESCRIPTION	UNIT	QTY	RATE	KSHS
Α.	Extra Keypad	NO	1		
В.	Cabling, cabinets and associated accessories	Lot	1		
C.	PANIC BUTTONS Strong mechanical composition.	No.	4		
D.	ADVANCED GSM/GPRS MODULE Central station events reporting Via Voice/sms/E- mail To transmit zone activations and other alarm events such as specific alarm activation zones, arm/disarm users plus time of arm/disarm, loss of power on the system, system failure/restore and others. Support both prepaid and post-paid SIM Cards. Support remote upload and download.	No.	1		
Ε.	Installation, Training testing and commissioning	Lot	1		
F.	Guard Monitoring unit Complete with 10 Clocking Points as per the Specifications	Lot	1		
G.	HD Magnetic Contacts	No	2		
	Total Carried to collection Page 2 Eldoret Depot Alarms				

SUMMARY PAGE ELDORET DEPOT STORES/OFFICE ALARMS

No	Item Description	Amount KES
1.	Total Carried to collection Page 1 Eldoret Depot Alarms	
2.	Total Carried to collection Page 2 Eldoret Depot Alarms	
	Sub-total-2 Eldoret Depot Alarms	
	TOTAL CARRIED TO COLLECTION ELDORET DEPOT STORES/OFFICE ALARMS	

CATEGORY/LOT 6: INSTALLATION OF INTRUDER ALARMS/INTRUSION DETECTION SYSTEMS COMMERCIAL OFFICES NAIVASHA BANKING HALL ALARMS BILL OF QUANTITIES

NAIVASHA BANKING HALL ALARMS BILL OF QUANTITIES PAGE 1

ITE M	DESCRIPTION	UNIT	QTY	RATE	KSHS
Α.	CONTROL PANEL WITH SOFTWARE AND PROGRAMMING				
	16-zones input expandable to more than 40 zones and with				
	Keypad zones LCD Keypad with infrared receiver and battery				
	as Pro - Sys 128 or equal and approved.				
	At least more than 4-zones partitioning				
	Accommodate more than 50 user codes				
	4 or more PGM (programmable output)				
	Allow for IP Module and GSM connection to interface with				
	computers, printer and other computer networks.				
	GSM connectivity to allow events communication via mobile	NO	1		
В.	MOTION DETECTORS (PIR)				
	Indoor Dual element sensor.				
	12m (40ft), 110 view angle.				
	False alarms reduction facilities.				
	Interlock sensor geometry.				
	Automatic temperature compensation.				
	Sensitivity adjustment.				
	Protection from UV rays.	NO	8		
С.	POWER SUPPLY UNIT(P.S.U.)				
	Complete with back-up battery (12v, 7AH).				
	Output current 3A.				
	Output voltage 13.6-14vdc on mains power.				
	Load regulation 5%				
	Battery recharges 13 hours.	NO	1		
D.	4-Channel LONG RANGE ALARM REMOTE RECEIVER KIT				
	Operating voltage 12vdc.				
	Operating range more than 200m radius.				
	Dip-switch coding facility				
	Momentary/latching relay contacts	NO	1		
	Complete with two remote buttons.				
Ε.	SIREN				
	Complete unit with built-in strobe				
	Operating voltage 10-14.5vdc with reverse polarity				
	protection.				
	current(hold-off) siren-230mA(typical)				
	Siren output-11dBA@1M,standby 108dBA@1M.				
	Strobe flash rate-120/min, standby 30/min.	NO	1		
	Total Carried to collection Page 1 Naivasha Banking Hall				
	Alarms				

NAIVASHA BANKING HALL ALARMS BILL OF QUANTITIES PAGE 2

ITEM	DESCRIPTION	UNIT	QTY	RATE	KSHS

Α.	Extra Keypad	NO	1	
В.	Cabling, cabinets and associated accessories	Lot	1	
С.	PANIC BUTTONS	No.	11	
	Strong mechanical composition.			
D.	ADVANCED GSM/GPRS MODULE Central station events reporting Via Voice/sms/E- mail To transmit zone activations and other alarm events such as specific alarm activation zones, arm/disarm users plus time of arm/disarm, loss of power on the system, system failure/restore and others. Support both prepaid and post-paid SIM Cards. Support remote upload and download.	No.	1	
E.	Installation, Training testing and commissioning	Lot	1	
F.	Guard Monitoring unit Complete with 10 Clocking Points as per the Specifications	Lot	1	
G.	HD Magnetic Contacts	No	2	
	Total Carried to collection Page 2 Naivasha Banking Hall Alarms			

SUMMARY PAGE NAIVASHA BANKING HALL ALARMS

No	Item Description	Amount
INU		KES
1.	Total Carried to collection Page 1	
	Naivasha Banking Hall Alarms	
2.	Total Carried to collection Page 2	
	Naivasha Banking Hall Alarms	
	Sub-total-2 Naivasha Banking Hall	
	Alarms	
	TOTAL CARRIED TO COLLECTION	
	NAIVASHA BANKING HALL ALARMS	

CATEGORY/LOT 6: INSTALLATION OF INTRUDER ALARMS/INTRUSION DETECTION SYSTEMS COMMERCIAL OFFICES <u>UKUNDA STORES ALARMS BILL OF QUANTITIES</u>

UKUNDA STORES ALARMS BILL OF QUANTITIES PAGE 1

ITE M	DESCRIPTION	UNIT	QTY	RATE	KSHS
Α.	CONTROL PANEL WITH SOFTWARE AND PROGRAMMING				
	16-zones input expandable to more than 40 zones and with				
	Keypad zones LCD Keypad with infrared receiver and battery				
	as Pro - Sys 128 or equal and approved.				
	At least more than 4-zones partitioning				
	Accommodate more than 50 user codes				
	4 or more PGM (programmable output)				
	Allow for IP Module and GSM connection to interface with				
	computers, printer and other computer networks.				
	GSM connectivity to allow events communication via mobile	NO	1		
В.	MOTION DETECTORS (PIR)				
	Indoor Dual element sensor.				
	12m (40ft), 110 view angle.				
	False alarms reduction facilities.				
	Interlock sensor geometry.				
	Automatic temperature compensation.				
	Sensitivity adjustment.				
	Protection from UV rays.	NO	6		
С.	POWER SUPPLY UNIT(P.S.U.)				
	Complete with back-up battery (12v, 7AH).				
	Output current 3A.				
	Output voltage 13.6-14vdc on mains power.				
	Load regulation 5%				
	Battery recharges 13 hours.	NO	1		
D.	4-Channel LONG RANGE ALARM REMOTE RECEIVER KIT				
	Operating voltage 12vdc.				
	Operating range more than 200m radius.				
	Dip-switch coding facility				
	Momentary/latching relay contacts	NO	1		
	Complete with two remote buttons.				
Ε.	Extra Remotes Buttons	NO	1		
F.	SIREN				
	Complete unit with built-in strobe				
	Operating voltage 10-14.5vdc with reverse polarity				
	protection.				
	current(hold-off) siren-230mA(typical)				
	Siren output-11dBA@1M,standby 108dBA@1M.				
	Strobe flash rate-120/min, standby 30/min.	NO	1		
	Total Carried to collection Page 1 Ukunda Stores Alarms				

UKUNDA STORES ALARMS BILL OF QUANTITIES PAGE 2

ITEM	DESCRIPTION	UNIT	QTY	RATE	KSHS
Α.	Cabling, cabinets and associated accessories	Lot	1		

В.	PANIC BUTTONS	No.	4	
	Strong mechanical composition.			
C.	ADVANCED GSM/GPRS MODULE Central station events reporting Via Voice/sms/E- mail To transmit zone activations and other alarm events such as specific alarm activation zones, arm/disarm users plus time of arm/disarm, loss of power on the system, system failure/restore and others. Support both prepaid and post-paid SIM Cards.	No.	1	
	Support remote upload and download.			
D.	Installation, Training testing and commissioning	Lot	1	
Ε.	Guard Monitoring unit Complete with 10 Clocking Points as per the Specifications	Lot	1	
F.	HD Magnetic Contacts	No	2	
	Total Carried to collection Page 2 Ukunda Stores Alarms			

SUMMARY PAGE UKUNDA STORES ALARMS

No	Item Description	Amount
110		KES
1.	Total Carried to collection Page 1 Ukunda Stores Alarms	
2.	Total Carried to collection Page 2 Ukunda Stores Alarms	
	Sub-total-2 Ukunda Stores Alarms	
	TOTAL CARRIED TO COLLECTION UKUNDA STORES ALARMS	

NAIROBI SOUTH STORES ALARMS BILL OF QUANTITIES PAGE 1

ITEM	DESCRIPTION	UNIT	QTY	RATE	KSHS
A.	CONTROL PANEL WITH SOFTWARE AND PROGRAMMING		QL I		Nono
~	16-zones input expandable to more than 40 zones and with				
	Keypad zones LCD Keypad with infrared receiver and battery as				
	Pro - Sys 128 or equal and approved.				
	At least more than 4-zones partitioning				
	Accommodate more than 50 user codes				
	4 or more PGM (programmable output)				
	Allow for IP Module and GSM connection to interface with				
	computers, printer and other computer networks.				
	GSM connectivity to allow events communication via mobile	NO	3		
В.	MOTION DETECTORS (PIR)				
	Indoor Dual element sensor.				
	12m (40ft), 110 view angle.				
	False alarms reduction facilities.				
	Interlock sensor geometry.				
	Automatic temperature compensation.				
	Sensitivity adjustment.				
	Protection from UV rays.	NO	16		
С.	POWER SUPPLY UNIT(P.S.U.)				
	Complete with back-up battery (12v, 7AH).				
	Output current 3A.				
	Output voltage 13.6-14vdc on mains power.				
	Load regulation 5%				
	Battery recharges 13 hours.	NO	4		
D.	4-Channel LONG RANGE ALARM REMOTE RECEIVER KIT				
	Operating voltage 12vdc.				
	Operating range more than 200m radius.				
	Dip-switch coding facility				
	Momentary/latching relay contacts	NO	2		
	Complete with two remote buttons.				
Ε.	Extra Remotes Buttons	NO	2		
F.	SIREN				
	Complete unit with built-in strobe				
	Operating voltage 10-14.5vdc with reverse polarity protection.				
	current(hold-off) siren-230mA(typical)				
	Siren output-11dBA@1M,standby 108dBA@1M.				
	Strobe flash rate-120/min,standby 30/min.		-		
		NO	3		
	Total Carried to collection Page 1 Nairobi South Stores Alarms				

NAIROBI SOUTH STORES ALARMS BILL OF QUANTITIES PAGE 2

ITEM	DESCRIPTION	UNIT	QTY	RATE	KSHS
Α.	A GSM Monitoring Tablet	NO	1		

В.	ZONE EXPANDER MODULE	NO	2	
	Compatible with supplied alarm control panel and	_		
	related modules and accessories.			
С.	Cabling, cabinets and associated accessories	Lot	1	
D.	CEILLING MOUNT MOTION DETECTOR		3	
	detection range 12m(40ft)			
	adjustable height(between 1.5m-5.1m)			
	Dual MW + PIR technologies			
	Microprocessor controlled			
	Patented true temperature compensation Superior fluorescent interference rejection			
	Superior RFI immunity			
	LED walk test display			
	Alternate polarity pulse count			
E.	PANIC BUTTONS	No.	6	
	Strong mechanical composition.			
F.	ADVANCED GSM/GPRS MODULE	No.	3	
	Central station events reporting Via Voice/sms/E-			
	mail			
	To transmit zone activations and other alarm			
	events such as specific alarm activation zones,			
	arm/disarm users plus time of arm/disarm, loss of			
	power on the system, system failure/restore and			
	others.			
	Support both prepaid and post-paid SIM Cards. Support remote upload and download.			
		Lot	1	
	, 8 8			
	commissioning			
G.	Guard Monitoring unit Complete with 10	Lot	1	
	Clocking Points as per the Specifications			
Н.	HD Magnetic Contacts	No	7	
	Total Carried to collection Page 2 Nairobi			
	South Stores Alarms			

SUMMARY PAGE NAIROBI SOUTH STORES ALARMS

No	Itom Description	Amount
INU	Item Description	KES

1.	Total Carried to collection Page 1 Nairobi South Stores Alarms	
2.	Total Carried to collection Page 2 Nairobi South Stores Alarms	
	Sub-total-2 Nairobi South Stores Alarms	
	TOTAL CARRIED TO COLLECTION NAIROBI SOUTH STORES ALARMS	

CATEGORY/LOT 6: INSTALLATION OF INTRUDER ALARMS/INTRUSION DETECTION SYSTEMS COMMERCIAL OFFICES

KISII STORES ALARMS BILL OF QUANTITIES KISII STORES ALARMS BILL OF QUANTITIES PAGE 1

ITEM	DESCRIPTION	UNIT	QTY	RATE	KSHS
Α.	CONTROL PANEL WITH SOFTWARE AND PROGRAMMING				
	16-zones input expandable to more than 40 zones and with				
	Keypad zones LCD Keypad with infrared receiver and battery				
	as Pro - Sys 128 or equal and approved.				
	At least more than 4-zones partitioning				
	Accommodate more than 50 user codes				
	4 or more PGM (programmable output)				
	Allow for IP Module and GSM connection to interface with				
	computers, printer and other computer networks.				
	GSM connectivity to allow events communication via mobile	NO	1		
В.	MOTION DETECTORS (PIR)				
	Indoor Dual element sensor.				
	12m (40ft), 110 view angle.				
	False alarms reduction facilities.				
	Interlock sensor geometry.				
	Automatic temperature compensation.				
	Sensitivity adjustment.				
	Protection from UV rays.	NO	11		
С.	POWER SUPPLY UNIT(P.S.U.)				
	Complete with back-up battery (12v, 7AH).				
	Output current 3A.				
	Output voltage 13.6-14vdc on mains power.				
	Load regulation 5%				
	Battery recharges 13 hours.	NO	1		
D.	4-Channel LONG RANGE ALARM REMOTE RECEIVER KIT				
	Operating voltage 12vdc.				
	Operating range more than 200m radius.				
	Dip-switch coding facility				
	Momentary/latching relay contacts	NO	1		
	Complete with two remote buttons.				
Ε.	Extra Remotes Buttons	NO	0		
F.	SIREN				
	Complete unit with built-in strobe				
	Operating voltage 10-14.5vdc with reverse polarity				
	protection.				
	current(hold-off) siren-230mA(typical)				
	Siren output-11dBA@1M,standby 108dBA@1M.				
	Strobe flash rate-120/min, standby 30/min.	NO	1		
	Total Carried to collection Page 1 Kisii Stores Alarms				

KISII STORES ALARMS BILL OF QUANTITIES PAGE 2

		1

ITEM	DESCRIPTION	UNIT	QTY	RATE	KSHS
Α.	A GSM Monitoring Tablet	NO	1		
В.	Cabling, cabinets and associated accessories	Lot	1		
С.	CEILLING MOUNT MOTION DETECTOR detection range 12m(40ft) adjustable height(between 1.5m-5.1m) Dual MW + PIR technologies Microprocessor controlled Patented true temperature compensation Superior fluorescent interference rejection Superior RFI immunity LED walk test display Alternate polarity pulse count		2		
D.	PANIC BUTTONS Strong mechanical composition.	No.	4		
Ε.	ADVANCED GSM/GPRS MODULE Central station events reporting Via Voice/sms/E-mail To transmit zone activations and other alarm events such as specific alarm activation zones, arm/disarm users plus time of arm/disarm, loss of power on the system, system failure/restore and others. Support both prepaid and post-paid SIM Cards. Support remote upload and download.	No.	1		
F.	Guard Monitoring unit Complete with 10 Clocking Points as per the Specifications	Lot	1		
G.	HD Magnetic Contacts	No	1		
	Total Carried to collection Page 2 Kisii Stores Alarms				

SUMMARY PAGE KISII STORES ALARMS

No	Item Description	Amount
INU		KES
1.	Total Carried to collection Page 1 Kisii Stores Alarms	
2.	Total Carried to collection Page 2 Kisii Stores Alarms	
	Sub-total Kisii Stores Alarms	
	TOTAL CARRIED TO COLLECTION KISII DEPOT STORES ALARMS	

CATEGORY/LOT 6: INSTALLATION OF INTRUDER ALARMS/INTRUSION DETECTION

SYSTEMS COMMERCIAL OFFICES WESTLANDS SUBSTATION ELECTRIC FENCE BILL OF QUANTITIES

Г

				Coun	Rate in	Amount	
No	Item Description	Unit	QTY	try of origin	KES(Vat Exc)	KES(Vat Exc)	Part Numbers
	ELECTRIC FENCE ABOVE MASONRY WALLING The following in electric fence to cover 224m Perimeter comprising 8 strands spaced 100mm centers above the walling and comprising necessary accessories in conformity with relevant standards and general good practice and allow for works to be installed, tested and Commissioned to client's satisfaction with the following :						
A	Adequate mains energizer DRUID 15 Nemtek 4.6J Output or equal and approved complete with back-up battery and Keypad as per the specifications.	No.	1				
В	GSM/IP Module as per detailed specifications	No	1				
С	Lead out under gate cable including excavating in road works with necessary ducting and making good	м	200				

	Bill of Quantities Westlands Substation Page 2								
No	Item Description	Unit	QTY	Countr y of origin	Rate in KES(Vat Exc)	Amount	Part Numbers		
А	High tensile 1.6mm fence wire (HT)	м	2500						
В	Fence Poles Double Galvanized Electroplated, double galvanized square tube 25 x 25 x 1.5mm thick steel Hollow Square Tube for W and S insulators posts with plastic top caps. Apply Metal primer before installing and 2 finishing coats of 1st quality gloss paint "Crown" including embedding 200mm deep in the reinforced columns and walls Complete with metal lugs and approved by the client.	No.	130						
С	Siren Kit complete with box, sounder and strobe 12V,DC Security sounder and strobe with a range of 1 km as per detailed specifications.	No.	1						
D	W-Insulators High density porcelain UV stabilized plastic polythene insulators to adequately cover the installations as per IEE standards	ltem	1						
	Total Carried to Collection Westlar								

	Bill of Qu						
No	Item Description	Unit	QTY	Countr y of origin	Rate in KES(Vat Exc)	Amount	Part Numbers
А	Strain –S-insulators STF Black-High density porcelain UV stabilized plastic polythene insulators to adequately cover the installations as per IEE standards	ltem	1				
В	Earthing of the Electric fence as per the IEE regulations and to be done at intervals of 30M	ltem	1				
C	Hatari signs	No	30				
D	Provide for power and Alarm cable as per IEE Standards	ltem	1				
Е	Supply and fix Razor wire at the top of the boundary wall conforming to the following specifications:- coil size - 450mm diameter, Blade profile - Ripper Razor Wire, Stretch factor - maximum of 10M per coil and secured with steel plates at 1M centers (Galvanized)	М	291				
	Total Carried to Collection W	estland	s Substa	ation page	3		

Bill of Quantities Westlands Substation Page 4

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount	Part Number s
A	Energizer Cabinet with following specs: Energizer steel cabinet 500x500x250mm fabricated from 25x25x3mm angle line framing and 3mm thick plain sheet with lockable door including painting and mounting to Clients approval.	No.	1				
В	AVS 30A voltage guard	No.	1				
С	Allow for installation, configurations, Training, Testing and Commissioning to clients satisfaction. Installation to include all necessary civil and electrical works. Contractor to submit 3no identical handover box files will all correspondences of works and including drawings, layouts, manuals. To be done in consultation with the client for more details and format.	Item	1				
	Total Carried to Collection	Westlar	nds Sub	ostation pag	je 4		

	SUMMARY PAGE WESTLANDS SUBSTATION ELECTRI	C FENCE	
	BILL OF QUANTITIES		
1.	Total Carried to Collection Westlands		
	Substation page 1		
2.	Total Carried to Collection Westlands		
	Substation page 2		
3.	Total Carried to Collection Westlands		
	Substation page 3		
4.	Total Carried to Collection Westlands		
	Substation page 4		
	SUB-TOTAL- WESTLANDS		
	SUBSTATION ELECTRIC FENCE		

CATEGORY/LOT 6: INSTALLATION OF INTRUDER ALARMS/INTRUSION DETECTION SYSTEMS COMMERCIAL OFFICES <u>NAIROBI NORTH SUBSTATION ELECTRIC FENCE</u>

Bill of Quantities Nairobi North Substation Page 1

No	Item Description	Unit	QTY	Countr y of origin	Rate in KES(Vat Exc)	Amount KES(Vat Exc)	Part Numbers
	ELECTRIC FENCE ABOVE						
	MASONRY WALLING						
	The following in electric fence						
	to cover 922m Perimeter						
	comprising 8 strands spaced						
	100mm centers above the						
	walling and comprising						
	necessary accessories in						
	conformity with relevant						
	standards and general good						
	practice and allow for works						
	to be installed, tested and						
	Commissioned to client's						
	satisfaction with the following						
	Adequate mains energizer						
	DRUID Nemtek 8J						
А	Output or equal and approved	No.	2				
	complete with back-up battery						
	and Keypad as per the						
	specifications.						
В	GSM/IP Module as per	No	1				
	detailed specifications.	_					
	Lead out under gate cable						
~	including excavating in						
С	road works with necessary	Μ	800				
	ducting and making good						
	No.						
	Total Carried to Collection Nair	ohi No	rth Subs	tation nag	1 م		

	Bill of Quantities Nairobi North Substation Page 2								
No	Item Description	Uni t	QTY	Coun try of origin	Rate in KES(Vat Exc)	Amount	Part Number s		
А	High tensile 1.6mm fence wire (HT)	М	10,000						
В	Fence Poles Double Galvanized Electroplated, double galvanized square tube 25 x 25 x 1.5mm thick steel Hollow Square Tube for W and S insulators posts with plastic top caps. Apply Metal primer before installing and 2 finishing coats of 1st quality gloss paint "Crown" including embedding 200mm deep in the reinforced columns and walls Complete with metal lugs and approved by the client.	No.	430						
С	Siren Kit complete with box, sounder and strobe 12V, DC Security sounder and strobe with a range of 1 km as per detailed specifications.	No.	1						
D	W-Insulators High density porcelain UV stabilized plastic polythene insulators to adequately cover the installations as per IEE standards	lte m	1						
	Total Carried to Collection Nairobi	i Nort	h Substat	ion page 2	2				

	Bill of Quantitie	s Nairc	bi Nort	h Substat	ion Page 3		
No	Item Description	Unit	QTY	Coun try of origin	Rate in KES(Vat Exc)	Amount	Part Number s
A	Strain –S-insulators STF Black-High density porcelain UV stabilized plastic polythene insulators to adequately cover the installations as per IEE standards	ltem	1				
В	Earthing of the Electric fence as per the IEE regulations and to be done at intervals of 30M	ltem	1				
С	Hatari signs	No	40				
D	Provide for power and Alarm cable as per IEE Standards	ltem	1				
Е	Supply and fix Razor wire at the top of the boundary wall conforming to the following specifications:- coil size - 450mm diameter, Blade profile - Ripper Razor Wire, Stretch factor - maximum of 10M per coil and secured with steel plates at 1M centers (Galvanized)	м	430				
	Total Carried to Collection Nairobi	North	Substat	ion page	3		

Bill of Quantities Nairobi North Substation Page 4

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount	Part Number s
A	Energizer Cabinet with following specs: Energizer steel cabinet 500x500x250mm fabricated from 25x25x3mm angle line framing and 3mm thick plain sheet with lockable door including painting and mounting to Clients approval.	No.	1				
В	AVS 30A voltage guard	No.	1				
С	Allow for installation, configurations, Training, Testing and Commissioning to clients satisfaction. Installation to include all necessary civil and electrical works. Contractor to submit 3no identical handover box files will all correspondences of works and including drawings, layouts, manuals. To be done in consultation with the client for more details and format.	ltem	1				
	Total Carried to Collection Na	airobi No	orth Su	bstation pa	ge 4		

	SUMMARY PAGE NAIROBI NORTH SUBSTATION ELEC BILL OF QUANTITIES	TRIC FEN	CE
1.	Total Carried to Collection Nairobi North		
	Substation page 1		

2.	Total Carried to Collection Nairobi North Substation page 2	
3.	Total Carried to Collection Nairobi North Substation page 3	
4.	Total Carried to Collection Nairobi North Substation page 4	
	SUB-TOTAL- NAIROBI NORTH SUBSTATION ELECTRIC FENCE	

CATEGORY/LOT 6: INSTALLATION OF INTRUDER ALARMS/INTRUSION DETECTION SYSTEMS COMMERCIAL OFFICES <u>WEBUYE SUBSTATION ELECTRIC FENCE BILL OF QUANTITIES</u>

		Bill of Quantities	Webuye S	Substatio	on Page 1		
No	Item Description	Unit	QTY			Amount	

				Coun try of origin	Rate in KES(Vat Exc)	KES(Vat Exc)	Part Numbers
	ELECTRIC FENCE ABOVE MASONRY WALLING The following in electric fence to cover 417m Perimeter comprising 8 strands spaced 100mm centers above the walling and comprising						
	necessary accessories in conformity with relevant standards and general good practice and allow for works to be installed, tested and Commissioned to client's satisfaction with the following :						
А	Adequate mains energizer DRUID 15 Nemtek 4.6J Output or equal and approved complete with back-up battery and Keypad as per the specifications.	No.	1				
В	GSM/IP Module as per detailed specifications	No	1				
С	Lead out under gate cable including excavating in road works with necessary ducting and making good	М	200				
	Total Carried to Collection Webuye	e Subs	tation pag	e 1			

	Bill of Quar	tities V	Vebuye	Substation	Page 2		
No	Item Description	Unit	QTY	Countr y of origin	Rate in KES(Vat Exc)	Amount	Part Numbers
A	High tensile 1.6mm fence wire (HT)	М	7000				
В	Fence Poles Double Galvanized Electroplated, double galvanized square tube 25 x 25 x 1.5mm thick steel Hollow Square Tube for W and S insulators posts with plastic top caps. Apply Metal primer before installing and 2 finishing coats of 1st quality gloss paint "Crown" including embedding 200mm deep in the reinforced columns and walls Complete with metal lugs and approved by the client.	No.	181				
С	Siren Kit complete with box, sounder and strobe 12V, DC Security sounder and strobe with a range of 1 km as per detailed specifications.	No.	1				
D	W-Insulators High density porcelain UV stabilized plastic polythene insulators to adequately cover the installations as per IEE standards	ltem	1				
	Total Carried to Collection Webuye	e Substa	ation pa	ge 2			

	Bill of Quan	tities V	Vebuye	Substation	n Page 3		
No	Item Description	Unit	QTY	Countr y of origin	Rate in KES(Vat Exc)	Amount	Part Numbers
A	Strain –S-insulators STF Black-High density porcelain UV stabilized plastic polythene insulators to adequately cover the installations as per IEE standards	ltem	1				
В	Earthing of the Electric fence as per the IEE regulations and to be done at intervals of 30M	ltem	1				
С	Hatari signs	No	45				
D	Provide for power and Alarm cable as per IEE Standards	ltem	1				
Е	Supply and fix Razor wire along the free- stranding electric fence, conforming to the following specifications:- 980mm diameter coil size Double Galvanized Razor wire ; Blade profile - Ripper Razor Wire; Stretch factor - maximum of 10M per coil and secured with steel plates at 1M centers and with two coatings to prevent rust.	М	417				
	Total Carried to Collection Webuye	Substa	tion page	2 3			

Bill of Quantities Webuye Substation Page 4

No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount	Part Number S
A	EnergizerCabinetwithfollowing specs:EnergizerSteelcabinet500x500x250mmfabricatedfrom25x25x3mmanglelineframingand3mmthickplainsheetwithlockabledoorincludingpaintingandmounting to Clients approval.	No.	1				
В	AVS 30A voltage guard	No.	1				
С	Allow for installation, configurations, Training, Testing and Commissioning to clients satisfaction. Installation to include all necessary civil and electrical works. Contractor to submit 3no identical handover box files will all correspondences of works and including drawings, layouts, manuals. To be done in consultation with the client for more details and format.	ltem	1				
	Total Carried to Collection Web	uye Sub:	station	page 4			

	SUMMARY PAGE WEBUYE SUBSTATION ELECTRIC FE BILL OF QUANTITIES	NCE	
1.	Total Carried to Collection Webuye		
	Substation page 1		

2.	Total Carried to Collection Webuye Substation page 2	
3.	Total Carried to Collection Webuye Substation page 3	
4.	Total Carried to Collection Webuye Substation page 4	
	SUB-TOTAL- WEBUYE SUBSTATION ELECTRIC FENCE	

CATEGORY/LOT 6: INSTALLATION OF INTRUDER ALARMS/INTRUSION DETECTION SYSTEMS COMMERCIAL OFFICES

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Bill of Quantities CATEGORY/LOT 6-Technical Training Page 1							
No	Item Description	Unit	QTY	Country of origin	Rate in KES(Vat Exc)	Amount	Part Numbers
А	Manufacturers Training: Factor costs as follows:						
i)	Manufacturers Training at the manufacturers for 3no technical persons (Factor only the cost of training i.e venue ,trainers, transport to and from the training venue and certification)	LOT	1				
ii)	Travellingandaccommodationfor3no technical persons	LOT	1		3,500,000.00	3,500,000.00	
	Total Carried to collection Bill of Quantities CATEGORY/LOT 6-Technical Training Page 1						

SUMMARY PAGE CATEGORY/LOT 6 BILL OF QUANTITIES: INSTALLATION OF INTRUDER ALARMS/INTRUSION DETECTION SYSTEMS COMMERCIAL OFFICES

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1.	Sub-Total Eldoret Depot Stores/Office		
	Alarms		
2.	Sub-Total Naivasha Intruder Alarms		
2			
3.	Sub-Total Nairobi South Stores Alarms		
4.	Sub-Total Ukunda Banking hall-Stores		
	Intruder Alarms		
5.	Sub-Total Nairobi South Depot Alarms		
	Intruder Alarms		
6.	Sub-Total Kisii Depot Alarms Intruder		
	Alarms		
7.	Sub-Total Westlands Substation Electric		
	Fence		
8.	Sub-Total Nairobi North Substation		
0.	Electric Fence		
9.	Sub-Total Webuye Substation Electric		
	Fence		
	Sub-total Total Carried to collection Bill		
	of Quantities CATEGORY/LOT 6-		
	Technical Training Page 1		
	SUB-TOTAL- INSTALLATION OF		
	INTRUDER ALARMS/INTRUSION		
	DETECTION SYSTEMS		
	COMMERCIAL OFFICES		
	Add 16% Vat		
	GRAND TOTAL- CATEGORY/LOT 6:		
	INSTALLATION OF INTRUDER		
	ALARMS/INTRUSION DETECTION		
	SYSTEMS COMMERCIAL OFFICES		

SCHEDULE OF MAINTENANCE CATEGORY/LOT 6: INSTALLATION OF INTRUDER ALARMS/INTRUSION DETECTION SYSTEMS COMMERCIAL OFFICES

Item	Description	Unit of measure	Quantity	Unit Price VAT Exclusive (Ksh)	Total Price VAT Exclusive (Ksh)
1	Allow maintenance for a period of 1 (one) year done quarterly as per Kplc SLA.	No	4		

NB;

To be done after one year warranty of servicing during period

CATEGORY/LOT 6-RECOMMENDED SCHEDULE OF SPARE PARTS

Item	Description	Qty	Unit Price VAT Excl (Ksh)	Total Price VAT Excl (Ksh)	Total Price VAT Incl (Ksh)

NB: The cost of spare parts shall be budgeted for and consumed in subsequent repair & Maintenance budget after the warranty period on as-and- when needed-basis.

Name of Tenderer_____

___ Signature & Official Stamp

GRAND TOTAL SUMMARY

ITEM	DESCRIPTION	TOTAL PRICE LOCAL CURRENCY (KSHS. VAT INCLUSIVE)
1	GRAND TOTAL CATEGORY/LOT 1: INSTALLATION OF CCTV MAJOR DISTRIBUTION/ TRANSMISSION SUBSTATION	
2	GRAND TOTAL CATEGORY/LOT 2 BILL OF QUANTITIES: INSTALLATION OF IP-CCTV FOR KEY OFFICES	
3	GRAND TOTAL INSTALLATION OF ACCESS CONTROL IN SUBSTATIONS & KEY OFFICES	
4	GRAND TOTAL CATEGORY/LOT 4 BILL OF QUANTITIES: SECURITY SYSTEMS FOR FACILITIES AND INFRASTRUCTURE	
5	GRAND TOTAL- CATEGORY/LOT 5: INSTALLATION OF ELECTRIC FENCES & INTRUSION SYSTEM FOR KEY SUBSTATIONS	
6	GRAND TOTAL- CATEGORY/LOT 6: INSTALLATION OF INTRUDER ALARMS/INTRUSION DETECTION SYSTEMS COMMERCIAL OFFICES	
GRAND	TOTAL CARRIED FORWARD TO FORM OF TENDER	