	BILL OF QUANTITIES FOR REHABILITTION				
	& SUBSTATION BALASTING LOT-3-MT. KENYA				
ITEM NO.	DESCRIPTION	UNIT	QTY.	UNIT RATE	AMOUNT
	Preliminaries-For All substation sites in the Lot				
	Allow for a temporary site office prefarably portable that				
1	can be shifted to multiple site or external arrangement as	iTEM	1		
	per contractor convinience(Works lasting only 4 months)				
	Ditto but provide at his own risk and cost where directed on				
	the site weatherproof lockup sheds for the safe storage				
2	and custody of material for the Works and for the use of	ITEM	1		
	workmen engaged thereon and shall remove such sheds				
	and make good damaged or disrupted surfaces upon				
3	completion to the satisfaction of the Project Manager Allow for clean water for the works	ITEM	1		
	Allow for all the necessary statutory approvals for the				
4	Allow for all the frecessary statutory approvals for the	ITEM	1		
5	Allow for temporary sign post for the proposed works	ITEM	1		
	The Contractor shall allow and be entirely responsible for				
	the security of all the Works, stores, materials, plant,	ITEM	1		
6	personnel, etc, both his own and sub-contractors' and				
	must provide all necessary watching, lighting and other	11 <u> 1</u>			
	precautions as necessary to ensure security against theft,				
	loss or damage and the protection of the public.				
7	Allow for Insurance Cover for the proposed works and	ITEM	1		
	workers.	11 = 141	'		
8	Allow for a qualified personel conservant with Kenya	ITEM	1		
	Power safety regulations for the entire contract period	11 = 141			
9	Allow communication,facilitation,Data for inspections and	ITEM	1		
	the like for PM/PE/CIT and supervision Team-provisional	11 = 141			
	Allow for supply of power or provide for an adequate				
10	Capacity Generator on site for the supply of power for	ITEM	1		
	use for the works.				
11	Allow for demobilization and relocation to different site	ITEM	1		
	a lan				
	m r				
	TOTAL TO SUMMARY PAGE 1				

ITEM	DESCRIPTION	UNIT	QTY	UNIT	
NO.			·	RATE	AMOUNT
	OTHAYA 33/11KV SUBSTATION				
	SWITCHYARD (Both Live area and Gura 33kv Incomer Bay)				
1	ALLow for oversite removal of shrubs bushes ,clearing all vegetation on non live areas within the KPLC	SM	2300		
2	Excavate oversite vegetable soil average depth 150mm and cart way to Municipal Council designated damping	SM	2300		
3	Average 0.1mm thick selected well compacted imported and approved murram fill, compacted in layers of 150mm thick using a plate compactor to receive ballast to gradual slope terminating at srorm drain(ms)	СМ	230		
4	Apply suitable and approved weed killer, herbicide to surfaces of backfill as per the Manufacture's written instructions and a 12 month guarrantee and provide a copy to client.	SM	2300		
5	1000 gauge polythene or other equal and approved mebrane laid on compacted and treated surface with welted laps of 200mm wide.	SM	2300		
6	Supply and spread uniformly 150mm thick (30-40mm) crushed Agregates/ ballast in switchyard. (machine crushed)	SM	1500		
8	Provide 150mm precast concrete or CAST insitu channel 200mm above switchyard level along the edges of invert drain block(ms),road edges(ms) to secure ballast from falling	LM	350		
9	Allow for 1 Nos. Shmidt hammer and 1No. Hand held GPS device .including Testing & Calibration as necessary. Provide documents to supprt calibration for client ue within project.Provisional 150,000	ITEM	1		
10	Allow for quarry chips surfacing 50mm for non live area	SM	1000		
11	Allow PM office facilitation to User supervision representative-2 no. on communication & data-Provisional 200,000	ITEM	1		
	TOTAL TO SUMMARY PAGE 2				
	<u> </u>			1	

ITEM NO.	DESCRIPTION	UNIT	QTY.	UNIT RATE	AMOUNT
	CABLE TRENCHES & DUCTS				
1	Refurbish existig cable trenches by hacking 150mm tongue and grove and extension to 300mm above ground by lean concrete on the 150mm walls- including road crossing and manholes on both sides and new extension as necessary	LM	100		
2	Provide and put in place (900x300x75mm) thick precast concrete trench covers reinfoced with Y8 bars spaced at 100mm both ways with fair face finish on both side; concrete to class 20	NO	330		
	STORM WATER DRAINAGE				
1	Excavate on site drain trench not exceeding 1.5m deep including plunking and struting, disposal of soil to receive drainage channels and forming sloping sides well compacted to receive side slabs (ms)	СМ	380		
2	Lay (300x450mm) precast concrete invert block drains to a suitable fall with grooved edge and tounged joints filled with cement/sand mortar (1:3) and laid on 50mm thick plain concrete bed terminating at storm oulets.	LM	150		
3	Allow for 300mm diameter culverts at the 2 gates or 300mm wide gratings and storm interceptor channels as necessary	LM	12		
4	Supply and lay on sides of sloped trench (75x230mm wide) precast concrete slabs jointed in 1:3 cement sand mortar	LM	100		
	PERIMETER WALLING 198MX1.2M - 600MM AGL				
	Block walling in cement sand mortar (1:3) including and reinforced with 20 SWG hoop iron in every two alternating course.including all bases excavations ,concrete works & dewatering				
1	200mm thick natural stone wall	SM	240		
2	Ditto but pile pillars	No.	85		
	TOTAL TO SUMMARY PAGE 3				

ITEM NO.	DESCRIPTION	UNIT	QTY.	UNIT RATE	AMOUNT
3	Allow class 20 concrete for strips and bases including all	СМ	45		
	necessary formwork and the like	Civi	43		
4	Allow for plaster/finishes,with 2coats of black bituminous	SM	340		
'	paint	Oivi	0.10		
	Allow for 350x350 x 50mm Thick precast concrete				
5	copings bedded on top of 200mm. thick walling in 1:4	LM	250		
	Cement sand mortar				
	REFURBISHMENTS				
	Rehabilitate the existing gate house,metal gate,				
	repair/replace all broken windows ,panes, replace				
	dillapated wooden door,Lighting, including creating				
	opening and gate at security sentry entrance on the new				
1	wall using the refurbished gate.Internal and external	Item	1		
	finishes as necessary by prepare and applying first				
	grade undercoat and two coat of paints on refurbished				
	walls to match existing colours. Repar damaged roof				
	and fascia board and pain as necessary				
	ALLOW for External painting of control building to match	SM			
2	existing including making good splash aprons and		150		
	skirting with black bituminous paint				
	Allow for repair and reinforce existing chainlink-240m				
	long and gates, posts,mesh,strands where dilapidated		1		
3	and realign well with new proposed half wall ,all works	Item			
	including either priming all metal posts and associated				
	work to make good including re-aligning the two main				
	metal gates and drop bolts to client satisfaction				
	ACCESS ROAD REPAIR (Live Switch-yard) ALLOW for hard compacted 5m wide (250sm) gravel				
	road on33/11kv side with average 500mm compacted				
	layers to 95MDD including road kerbs,channels and all				
1	road paintings finished surface with quarry chips	SM	250		
	100mm, including extra over on provision to curved				
	section near tranformer areas.				
	Allow for removal of heaps of soil/murram and carting				
2	away at the entire substation front area including	Item	1		
2	opening up the blocked draingaes/culverts and leveling	item	m 1		
	the area for ease of entry to the substation				
	TOTAL TO SUMMARY PAGE 4				

	SUMMAY PAGE			AMO	TNUC
	TOTAL FROM PAGE 1PRELIMINARIES ALL LOTS				
	TOTAL FROM PAGE 2				
	TOTAL FROM PAGE 3				
	TOTAL FROM PAGE 4				
	SUB-TOTAL OTHAYA SUBSTATION				
ISIOL	O 33/11KV SUBSTATION				
ITEM	DESCRIPTION	UNIT	QTY	UNIT	AMOUNT
NO.				RATE	
	SWITCHYARD (Both Live area and Non-live)				0
1	ALLow for oversite removal of shrubs bushes ,clearing all vegetation on non live areas within the KPLC	SM	4825		
2	Excavate oversite vegetable soil average depth 150mm and cart way to Municipal Council designated damping	SM	4825		
3	Average 0.1mm thick selected well compacted imported and approved murram fill, compacted in layers of 150mm thick using a plate compactor to receive ballast to gradual slope terminating at srorm drain(ms)	СМ	485		
4	Apply suitable and approved weed killer, herbicide to surfaces of backfill as per the Manufacture's written instructions and a 12 month guarrantee and provide a copy to client.	SM	4825		
5	1000 gauge polythene or other equal and approved mebrane laid on compacted and treated surface with welted laps of 200mm wide.	SM	4825		
6	Supply and spread uniformly 75mm thick (30-40mm) crushed Agregates/ ballast in switchyard. (machine crushed)-To top up 3 inches to existing	Tons	300		
8	Provide 150mm precast concrete or CAST insitu channel 300mm above switchyard level along the edges of invert drain block(ms),road edges(ms) to secure ballast from falling	LM	450		
9	Allow cleaning and re use of existing ballast to appointed areas in the live area/yard	SM	1500		
10	Allow 50mm Quarry chips in treated non live area	SM	2345		
	(h vi)				
	TOTAL TO SUMMARY PAGE 1				

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT RATE	AMOUNT
	CABLE TRENCHES & DUCTS				
1	Refurbish existig cable trenches by hacking 150mm tongue and grove and extension to 300mm above ground by lean concrete on the 150mm walls- including road crossing and manholes on both sides and new extension as necessary	LM	100		
2	Provide and put in place (600x300x70mm) thick precast concrete trench covers reinfoced with Y8 bars spaced at 100mm both ways with fair face finish on both side; concrete to class 20	NO	300		
	STORM WATER DRAINAGE				
1	Excavate on site drain trench not exceeding 1.5m deep including plunking and struting, disposal of soil to receive drainage channels and forming sloping sides well compacted to receive side slabs (ms)	СМ	810		
2	Lay (300x450mm) precast concrete invert block drains to a suitable fall with grooved edge and tounged joints filled with cement/sand mortar (1:3) and laid on 50mm thick plain concrete bed terminating at storm oulets and suiable concrete bump	LM	450		
3	Allow for 300mm diameter culverts at the gate or 300mm wide gratings and storm interceptor channels as necessary	LM	10		
4	Supply and lay on sides of sloped trench (75x230mm wide) precast concrete slabs jointed in 1:3 cement sand mortar	LM	450		
	PERIMETER WALLING 292M long X1.2M High - 600MM AGL				
	Block walling in cement sand mortar (1:3) including and reinforced with 20 SWG hoop iron in every two alternating course.including all bases excavations ,concrete works & dewatering				
1	200mm thick natural stone wall	SM	350		
2	Ditto but pile pillars	SM	95		
	TOTAL TO SUMMARY PAGE 2				

Allow class 20 concrete for strips and bases including all necessary reinforcements in D10 @ 200 centers , formwork and the like Allow for plaster/finishes,with 2coats of black bituminous paint Allow for 350x350 x 50mm Thick precast concrete copings bedded on top of 200mm. thick walling in 1:4 Cement sand mortar REFURISHMENTS Rehabilitate the existing gate house,2nos. metal gates (Main & live area), repair/replace all broken windows, panes, Lighting, including creating a chain-link fence around the guard house (10m long), shifting the existing door from where it is to the front side of the substation on the new wall using the new half wall. Internal and external finishes as necessary by prepare and applying first grade undercoat and two coat of paints on refurbished walls to match existing colours.Repair roof appropriately and pain fascia board. ALLOW for External painting of control building to match existing including making good splash aprons and skirting with black bituminous paint Allow for repair amore existing cnalmink(ror the main perimeter wall and the live area - Total 450m long) and gates, replace dammaged/worn out posts, mesh, strands where dilapidated and realign well with new proposed half wall. All works including either priming all metal posts and associated work to make good including re-aligning the two main metal gates and doos holde Lollout catifection. Allow for drainage wellight maximum 30 feed deep for water seepage (storm)including all masonary wall at 1m,RC slab cover and including diverting all drainage water from open channels Allow PM office facilitation to User supervision representative-2 no. on communication & data-Provisional 200,000	ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT RATE	AMOUNT
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Allow for 350x350 x 50mm Thick precast concrete copings bedded on top of 200mm. thick walling in 1:4 Cement sand mortar REFURBISHMENTS Rehabilitate the existing gate house, 2nos. metal gates (Main & live area), repair/replace all broken windows ,panes, Lighting, including creating a chain-link fence around the guard house (10m long), shifting the existing door from wherer it is to the front side of the substation on the new wall using the new half wall. Internal and external finishes as necessary by prepare and applying first grade undercoat and two coat of paints on refurbished walls to match existing colours. Repair roof appropriately and pain fascia board. ALLOW for External painting of control building to match existing including making good splash aprons and skirting with black bituminous paint Allow for repair and reimforce existing chainlink(for the main perimeter wall and the live area - Total 450m long) and gates, replace dammaged/worn out posts, mesh, strands where dilapidated and realign well with new proposed half wall. All works including either priming all metal posts and associated work to make good including re-aligning the two main metal gates and dron, bolte-to-client eatisfaction. Allow for drainage well/pit maximum 30 feed deep for water seepage (storm)including all masonary wall at 1m,RC slab cover and including diverting all drainage water from open channels Allow PM office facilitation to User supervision representative-2 no. on communication & data-Provisional 200,000						
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Cement sand mortar REFURBISHMENTS Rehabilitate the existing gate house,2nos. metal gates(Main & live area), repair/replace all broken windows ,panes,Lighting, including creating a chain-link fence around the guard house (10m long), shifting the existing door from wherer it is to the front side of the substation on the new wall using the new half wall. Internal and external finishes as necessary by prepare and applying first grade undercoat and two coat of paints on refurbished walls to match existing colours. Repair roof appropriately and pain fascia board. ALLOW for External painting of control building to match existing including making good splash aprons and skirting with black bituminous paint Allow for repair and remitore existing cnainlink(ror the main perimeter wall and the live area - Total 450m long) and gates, replace dammaged/worn out posts,mesh,strands where dilapidated and realign well with new proposed half wall. All works including either priming all metal posts and associated work to make good including re-aligning the two main metal gates and doo holls to client eatisfaction. Allow for drainage well/pit maximum 30 feed deep for water seepage (storm)including all masonary wall at 1m,RC slab cover and including diverting all drainage water from open channels Allow PM office facilitation to User supervision representative-2 no. on communication & data-Provisional 200,000						
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Rehabilitate the existing gate house,2nos. metal gates(Main & live area), repair/replace all broken windows, panes,Lighting, including creating a chain-link fence around the guard house (10m long), shifting the existing door from wherer it is to the front side of the substation on the new wall using the new half wall. Internal and external finishes as necessary by prepare and applying first grade undercoat and two coat of paints on refurbished walls to match existing colours. Repair roof appropriately and pain fascia board. ALLOW for External painting of control building to match existing including making good splash aprons and skirting with black bituminous paint Allow for repair and reinforce existing chainlink(for the main perimeter wall and the live area - Total 450m long) and gates, replace dammaged/worn out posts, mesh, strands where dilapidated and realign well with new proposed half wall. All works including either priming all metal posts and associated work to make good including re-aligning the two main metal gates and doo holts to clicat catisfaction. Allow for drainage well/pit maximum 30 feed deep for water seepage (storm)including all masonary wall at 1m,RC slab cover and including diverting all drainage water from open channels Allow PM office facilitation to User supervision representative-2 no. on communication & data-Provisional 200,000		Cement sand mortar				
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skirting with black bituminous paint Allow for repair and reinforce existing chainlink (for the main perimeter wall and the live area - Total 450m long) and gates, replace dammaged/worn out posts,mesh,strands where dilapidated and realign well with new proposed half wall. All works including either priming all metal posts and associated work to make good including re-aligning the two main metal gates and drop holts to client satisfaction. Allow for drainage well/pit maximum 30 feed deep for water seepage (storm)including all masonary wall at 1m,RC slab cover and including diverting all drainage water from open channels Allow PM office facilitation to User supervision representative-2 no. on communication & data-Provisional 200,000	2		SM	150		
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water seepage (storm)including all masonary wall at 1m,RC slab cover and including diverting all drainage water from open channels Allow PM office facilitation to User supervision representative-2 no. on communication & data-Provisional 200,000	3	Allow for repair and reinforce existing chainlink (for the main perimeter wall and the live area - Total 450m long) and gates, replace dammaged/worn out posts,mesh,strands where dilapidated and realign well with new proposed half wall. All works including either priming all metal posts and associated work to make good including re-aligning the two main metal gates and	Item	1		
5 representative-2 no. on communication & data- Provisional 200,000	4	Allow for drainage well/pit maximum 30 feed deep for water seepage (storm)including all masonary wall at 1m,RC slab cover and including diverting all drainage water from open channels	Item	1		
Provisional 200,000	_	·				
	5		ITEM	1		
TOTAL TO SUMMARY PAGE 3		Provisional 200,000				
		TOTAL TO SUMMARY PAGE 3				

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT RATE	AMOUNT
	MURRAM ACCESS ROAD (Live area and in non-live				
	area)				
	ALLOW for Making good finished surface,top up marum				
	and compaction, with quarry chips 50mm, including				
	extra over on provision to curved section near				
1	tranformer areason exxisting access area and kerb	SM	400		
	_				
	restraint.				
	Aller Cleaning of all duals an authoristic front do alling				
2	Allow Clearing of all drain on subststion front,de-silting	Item	1		
	and cart away all soil to designated approved location				
	TOTAL TO SUMMARY PAGE 4				
	TOTAL TO SUMMART PAGE 4				
	SUMMAY PAGE			AMC	UNT
	TOTAL FROM PAGE 1				
	TOTAL FROM PAGE 2				
	TOTAL FROM PAGE 3				
	TOTAL FROM PAGE 4				
	SUB-TOTAL ISIOLO 33 /11 SUBSTATION				
	SUMMARY PAGE LOT 3 MT. KENYA				
	SUB-TOTAL. OTHAYA33/11 KV SUBSTATION				
	SUB-TOTAL ISIOLO 333/11KV SUBSTATION				
	TOTAL				
	ADD 40% VAT				
	ADD 16% VAT				
	TOTAL TO FORM OF TENDER LOT 3-MT KENYA Amount in words:				
	7 Milodik III Woldo				
	Company Stamp				
	Signed:				
	Namo:				
	Name:				
	Address:				n
	7.44.000.			(1 1/2)	
	Conctract Period:12 MONTHS COMPLY TO DURATION	N	.YES	NO	