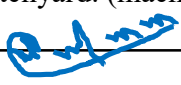



<b>BILL OF QUANTITIES FOR REHABILITATION &amp; SUBSTATION BALASTING LOT 1</b>					
<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>UNIT RATE</b>	<b>AMOUNT</b>
<b><u>Preliminaries</u></b>					
1	Allow for a temporary site office preferably portable that can be shifted to multiple site or external arrangement as per contractor convenience (Works lasting only 4 months)	ITEM	1		
2	Allow for clean water for the works	ITEM	1		
3	Allow for all the necessary statutory approvals for the works	ITEM	1		
4	Allow for temporary sign post for the proposed works	ITEM	1		
5	Allow for security and insurance for the proposed works	ITEM	1		
6	Allow for a qualified person conservant with Kenya Power safety regulations for the entire contract period	ITEM	1		
7	Allow communication appliances for project engineer and supervisor. allow provisional 350,000	ITEM	1		
8	Allow for supply of power for the works.	ITEM	1		
<b><u>CIVIL WORKS</u></b>					
<b><u>KIBOKO SUBSTATION</u></b>					
<b><u>SWITCHYARD</u></b>					
1	Excavate oversite vegetable soil average depth 150mm and cart way to Municipal Council designated damping site including scooping existing ballast in heaps for spreading	SM	7000		
2	ALLOW for oversite removal of shrubs bushes ,clearing all vegetation on non live areas within the KPLC premises	SM	4000		
3	Average 0.2mm 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 storm drain	CM	1400		
4	Apply suitable and approved weed killer, herbicide to surfaces of backfill as per the Manufacture's written instructions and a 12 month guarantee and provide a copy to client.	SM	12000		
5	1000 gauge polythene or other equal and approved mebrane laid on compacted and treated surface with weltd laps of 200mm wide.	SM	7000		
6	Supply and spread uniformly 150mm thick (30-40mm) crushed Agregates/ ballast in switchyard. (machine crushed)	SM	7000		
<b><i>TOTAL TO SUMMARY PAGE</i></b> 					

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT RATE	AMOUNT
7	Provide 150mm precast concrete or insitu channe 250mm above switchyard level along the edges of invert drain block,road edges to secure from falling ballast.	LM	500		
8	50mm thick approved and well compacted quarry dust blinding Non live areas and external places and access roads levelled and compacted	SM	4000		
9	Twin Heavy duty grating 300mm with 20mm twisted bar with ms angle frame embeded on draiage U chanel 300 mm wide 450mm deep ,RC walls 150mm thiick with 12mm bars at 150mm spacing both waysacross gate 6m long.And allow connection to IBD drain	LM	15		
<b>CABLE TRENCHES &amp; DUCTS</b>					
1	Refurbish existig cable trenches by hacking 150mm tongue and grove and extension to 300mm above ground by lean concrete on the 150mm walls- Provisional length	LM	230		
2	Provide and put in place (900x300x70mm) thick precast concrete trench covers reinforced with Y8 bars spaced at 100mm both ways with fair face finish on both side; concrete to class 20	NO	800		
3	Allow for repair and reinforce existing chainlink and gates posts,mesh,strands where dilapidated and realign well with new proposed half wall ,all works including either priming all metal posts and tassociated work to make good	LM	400		
<b>STORM WATER DRAINAGE</b>					
1	Excavate on site drain trench not exceeding 1.5m deep including plucking and struting, dispoasl of soil to receive drainage channels and forming sloping sides in well	CM	158		
2	Lay (300x450mm) precast concrete invert block drains to a suitable fall with grooved edge and tounded joints filled with cement/sand mortar (1:3) and laid on 50mm thick plain concrete bed	LM	220		
3	Supply and lay on sides of sloped trench (75x230mm wide) precast concrete slabs jointed in 1:3 cement sand mortar	LM	220		
	<b>TOTAL TO SUMMARY PAGE</b>				

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT RATE	AMOUNT
	<b>NATURAL STONE MASONARY WALL 600MM AGL</b>				-
	<b>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</b>				-
1	200mm thick natural stone wall	SM	500		
2	Ditto but pile pillars	SM	60		
3	Allow class 20 concrete for stips,piles and bases,copings	CM	50		
4	Allow for plaster/finishes,with black bituminous coat.	SM	1200		
	<b>PIT LATRINE/GATE HOUSE</b>				
1	Rehabilitate the existing gate house and Toilet by, redoing the internal and external finishes,hack and screed the floor and supply and fix approved ceramic tile on the floor.Repair all broken windows ,panes,Lighting ,and Prepare and apply first grade undercoat and two coat of paints on refurbished walls to match with the new control room colours.	Item	1		
<b>TOTAL TO SUMMARY PAGE</b>					

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT RATE	AMOUNT
	<b><u>ATHIRIVER 66/11KV SUBSTATION</u></b>				-
	<b><u>SWITCHYARD</u></b>				-
1	Scoop existing ballast for reuse ,remove 100mm soil average depth 150mm and cart way to Municipal Council designated dumping site	SM	3500		
2	Average 100mm thick selected well compacted imported and approved murram fill, compacted in layers of 100mm thick using a plate compactor to receive ballast to gradual slope terminating at storm drain	CM	350		
3	Apply suitable and approved weed killer, herbicide to surfaces of backfill as per the Manufacture's written instructions and a 12 month guarantee and provide a copy to client.	SM	3000		
4	1000 gauge polythene or other equal and approved mebrane laid on compacted and treated surface with weltd laps of 200mm wide.	SM	3000		
5	Supply and spread uniformly 150mm thick (30-40mm) crushed Agregates/ ballast in switchyard. (machine crushed)	SM	2000		
6	Alow to clean existing ballast and re spread	SM	1000		
7	Provide 150mm precast concrete or insitu channe 250mm above switchyard level along the edges of invert drain block,road edges to secure from falling ballast.	LM	100		
8	50mm thick approved and well compacted quarry dust blinding Non live areas and external places and access roads/3m fence buffer, levelled and compacted	SM	200		
9	Twin Heavy duty grating 300mm with 20mm twisted bar with ms angle frame embeded on draiage U chanel 300 mm wide 450mm deep ,RC walls 150mm thiick with 12mm bars at 150mm spacing both ways across gate 6m	LM	5		
	<b><u>CABLE TRENCHES &amp; DUCTS</u></b>				
1	Refurbish existig cable trenches by hacking 100mm tongue and grrove and extension to 300mm above ground by lean concrete on the 150mm walls- Provisional length	LM	150		
	<b><u>TOTAL TO SUMMARY PAGE</u></b>				



<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>UNIT RATE</b>	<b>AMOUNT</b>
1	Provide and put in place (900x300x70mm) thick precast concrete trench covers reinforced with Y8 bars spaced at 100mm both ways with fair face finish on both side; concrete to class 20	NO	500		
2	Fabricate and fix standard primary substation Grill gate 75x75x4mm frame with 50mm diameter 6No. aheavy duty gauge 8 wire mesh, bushes as including excavation for the gate columns, concrete works, erection and 3 coats of	NO	1		
3	Allow for repair and reinforce existing chainlink and gates posts, mesh, strands where dilapidated and realign well with new proposed half wall ,all works including either priming all metal posts and tassociated work to make good	LM	50		
<b><u>STORM WATER DRAINAGE</u></b>					
1	Excavate on site drain trench not exceeding 1.5m deep including plucking and struting, dispoasl of soil to receive drainage channels and forming sloping sides in well	CM	90		
2	Lay (300x450mm) precast concrete invert block drains to a suitable fall with grooved edge and tounded joints filled with cement/sand mortar (1:3) and laid on 50mm thick plain concrete bed	LM	100		
3	Supply and lay on sides of sloped trench (75x230mm wide) precast concrete slabs jointed in 1:3 cement sand mortar	LM	100		
<b>NATURAL STONE MASONARY WALL 600MM AGL</b>					
<b>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</b>					
1	200mm thick natural stone wall	SM	60		
2	Ditto but pile pillars	SM	20		
3	Allow class 20 concrete for stips, piles and bases, copings	CM	10		
4	Allow for plaster/finishes, with black bituminous coat.	SM	200		
					
<b>TOTAL TO SUMMARY PAGE</b>					

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT RATE	AMOUNT
	<b>PIT LATRINE/GATE HOUSE</b>				-
1	Rehabilitate the existing gate house and Toilet by, redoing the internal and external finishes,hack and screed the floor and supply and fix approved ceramic tile on the floor.Repair all broken windows ,panes,Lighting ,and Prepare and apply first grade undercoat and two coat of paints on refurbished walls to match with the new control room colours.	Item	1		
2	ALLOW for External painting control building including making good splash aprons and skirting	SM	450		
3	Allow for existing access road repair and painting kerbs	Item	1		
<b>TOTAL TO SUMMARY PAGE</b>					





<b>TOTAL TO SUMMARY PAGE</b>					
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<b>SUMMARY PAGE</b>					
TOTAL FROM PAGE 1					
TOTAL FROM PAGE 2					
TOTAL FROM PAGE 3					
TOTAL FROM PAGE 4					
TOTAL FROM PAGE 5					
TOTAL FROM PAGE 6					
TOTAL FROM PAGE 7					
<b>SUBTOTAL LOT 1 TO FINANCIAL SUMMARY</b>					
(VAT EXCLUSIVE)					
Amount in words:.....					
.....					
Company Stamp					
Signed: .....					
Name: .....					
Address: .....					
Contract Period: Lot 1 ... <b>4 MONTHS</b> .....					