

SCHEDULE OF REQUIREMENTS

LOT. 1 WATAMU 33/11 KV WORKS

Item	Item Description	Unit	Qty	Rate local	Rate USD	Amount local	Amount USD
	WATAMU 33/11KV S/STN						
	A. SUPPLIES						
WTM-1-1	33 kV Circuit Breaker	Pc	3				
WTM-1-2	33 kV Isolator WITH earth switch	Pc	1				
WTM-1-3	33kV Current Transformer	pc	6				
WTM-1-4	33 kV Isolator without earth switch	pc	3				
WTM-1-5	33 kV Bus bar extension Material and Bay Material (lot)	Lot	1				
WTM-1-6	33 kV Steel Structures for support (lot)- galvanized to match existing-lattice type	Lot	1				
WTM-1-7	33 kV Surge Arrestors	Pc	3				
WTM-1-8	33V Post Insulators	Pc	1				
WTM-1-9	33 kV Line Protection Panel with multifunctional protection unit	Pc	1				
WTM-1-10	Control and Measuring cables assorted sizes	Lot	1				
WTM-1-11	Substation Earthing System	Lot	1				
WTM-1-12	Ancillary Equipment	Lot	1				
WTM-1-13	Lighting mast	pc	2				
WTM-1-14	11 kV circuit breaker	pc	4				
WTM-1-15	11 kV disconnector switch	pc	6				
WTM-1-16	11kV Current Transformer set of 2 400-200/1/1/1	no	12				
WTM-1-17	11 kV surge diverters	pc	3				
WTM-1-18	11Kv voltage	pc	3				

Item	Item Description	Unit	Qty				
	transformers						
WTM-1-19	11kv post insulator	pc	1				
WTM-1-20	11kv Neutral CTs	pc	1				
WTM-1-21	11 kV Bus bar extension Material and Bay Material (lot)	Lot	1				
WTM-1-22	11kV bus bar isolator	pc	1				
WTM-1-23	11KV gantry 4m long	pcs	2				
WTM-1-23	11KV feeder protection and control panel(1 incomer, bus section and 2 no feeders)	Pcs	4				
WTM-1-24	Transformer protection and control panel	pcs	1				
WTM-1-25	Base radio. 1No. (Note that KPLC will supply RTU 560 hence provide devices which can communicate with ABB RTU 560)	pcs	1				
WTM-1-26	Battery charger 110 v dc	pc	1				
WTM-1-27	Battery bank 110vdc 160AH	PC	1				
WTM-1-27	Wiring and termination Accessories –lot	LOT	1				
	B. INSTALLATION WORKS & SERVICES						
WTM-2-1	Platform civil works (earth work, foundations& plinths, trenches, cable ducts)	Lot	1				
WTM-2-2	External civil works- drainage, access road, ballasting ,fumigation, gate repainting	Lot	1				
WTM-2-3	CRB extension	Lot	1				
WTM-2-4	Relocation services ,septic ,soak pit guard	Lot	1				

Item	Item Description	Unit	Qty				
	house ,toilet, foul drainage overhaul						
WTM-2-5	Boundary wall refurbishment ,razor wire	lot	1				
WTM-2-6	Non live area clearing, with full treatment and ballasting	Lot	1				
WTM-2-7	Structure and equipment Erection,stringing and commissioning	Lot	1				
WTM-2-8	Telecommunications & SCADA installation and commissioning	Lot	1				
WTM-2-9	substation automation integration	Lot	1				
WTM-2-10	Site adaptation works	Lot	1				
WTM-2-10	Transportation, load ,offload transformer from mbaraki depot to Watamu	lot	1				
	C.DESIGN SERVICES & FAT						
WTM -3-1	Substation design works for Watamu 33/11 kv stn						
WTM -3-2	Design training for 4 no. KPLC engineers- Electrical and Civil(training on lattice structures design)						
WTM -3-3	FAT for equipment & steel structures						
WTM -3-4	Statutory approvals except NEMA						

LOT NO. 1. SUMMARY

Item	Description	Total Price ¹	
		Foreign	Local
A	SUMMARY SUPPLIES		
B	SUMMARY WORKS AND SERVICES		
C	SUMMARY DESIGN SERVICES & FAT		
		TOTAL (to Bid Form)	
		Name of Bidder	
		Signature of Bidder	