

SECTION V – PRICE SCHEDULE FOR GOOD AND SERVICES

LOT 1: DESIGN, SUPPLY & INSTALLATION OF NEW LV BOARD

Note: This must be read in reference to guarantee specification above and attached drawings (1,2, 3) on the proposed LV board.

ITEM	DESCRIPTION	UNIT	QTY	WARRANTY / DELIVERY SCHEDULE	UNIT PRICE VAT INCLUSIVE	DDP	TOTAL PRICE DDP VAT INCLUSIVE
A	GENERAL ITEMS						
A/1	Allow for the inspection of the existing LV and meter boards, decommissioning, disconnection of the existing boards and services and handing over to the client with signed delivery note, modifications and replacement of any accessories such as cable glands and lugs etc.	Lot	1				
A/2	Allow for the preparation of all "As Built" drawings after testing and commissioning	Set	3				
A/3	The Tenderer is to describe hereunder inserting any relevant clause number, any other works, obligations or items that may be referred to in the Conditions of Contract, Specification, Drawings or Data Schedule in respect of the works for which he desires to enter a separate charge (this charge is to be entered in the Amount column). If no charge is entered hereunder, rates and amounts elsewhere in the schedule of prices shall be deemed to cover all expenses for such works, obligations or items.	Lot	1				
	<u>SUB-TOTAL - A</u>						

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B	ELECTRICAL DISTRIBUTION	UNIT	QTY	WARRANTY / DELIVERY SCHEDULE	UNIT PRICE VAT INCLUSIVE	DDP	TOTAL PRICE DDP VAT INCLUSIVE
	Supply, install, test, commission and set to work the following, at Basement: -						
B/1	Section 1 – Supply TX1 The switchboard panel complete with the following: -						
	B/1.1 1600 A TPN draw out type ACB (EDO) main incomer (Tx1 x 630KVA transformers)	No	1				
	B/1.2 415V three-phase surge diverter	No	1				
	B/1.3 CT three phase digital check meter	No	1				
	B/1.4 1600A TPN Stabilizer Bypass Switch (refer GTP)	No	1				
	B/1.5 1600A TPN insulated copper bus bars	No	1				
	B/1.6 1600Amp ACB FE	No	1				
	B/1.7 250A TPN MCCB	No	2				
	B/1.8 Set of neon/LED phase presence indicator lamps - All indicators	No	1				
	B/1.9 1No. CT Chambers	No	1				
	B/1.10 Space for 3No. KPLC TPN cut-out	No	1				
	B/1.11 Space for 3No. KPLC TPN Meters	No	1				
	B/1.12 Space for 1No. check meter	No	1				
	B/1.13 The spaces to be provided with punched studs for installing Kenya Power's seals.	No	1				
	B/1.14 Sufficient cable ways and 20% spare space for any future additions	Lot	1				

B/2	Section 2 – Supply TX2 & AVR		UNIT	QTY	WARRANTY / DELIVERY SCHEDULE	UNIT PRICE VAT INCLUSIVE	DDP	TOTAL PRICE DDP VAT INCLUSIVE
	B/2.1	1600 A TPN draw out type ACB (EDO) main incomer (Tx2 x 630KVA transformers)	No	1				
	B/2.2	Energy meter for TX2 and Genset	No	2				
	B/2.3	Space for 1No. check meter	No	1				
	B/2.4	415V three-phase surge diverter	No	1				
	B/2.5	Space for 1No. KPLC TPN cut-out	Lot	1				
	B/2.6	Space for No. KPLC TPN Meter	Lot	1				
	B/2.7	The spaces to be provided with punched studs for installing Kenya Power's seals.	Lot	1				
	B/2.8	1600A TPN Stabilizer Bypass Switch (refer GTP)	No	1				
	B/2.9	Automatic Voltage Regulator (refer GTP)	No	1				
	B/2.10	Set of neon phase presence indicator lamps - All indicators	No	1				
B/3	Section 3 – Change Over		UNIT	QTY	WARRANTY / DELIVERY SCHEDULE	UNIT PRICE VAT INCLUSIVE	DDP	TOTAL PRICE DDP VAT INCLUSIVE
	B/3.1	1600 A TPN draw out type ACB EDO main incomer (for the existing 2 x 630KVA transformers & Genset)	No	3				
	B/3.2	2No x 1600 A TPN Tie draw out type ACB EDO	No	2				
	B/3.3	Set of neon phase presence indicator lamps - All indicators	No	3				
B/4	Section 4 – Harambee Wing LV Board & PFCU							

NR-3

B/4.1	1200 A TPN ACB EDO (Harambee wing)	No	1				
B/4.2	Supply CT three phase digital check meter	No	1				
B/4.3	1200Amp TPN insulated copper bus bars	No	1				
B/4.4	630A TPN MCCB, (adjustable in 400 – 630A range)	No	1				
B/4.5	400A TPN MCCB, (adjustable in 250 – 400A range)	No	2				
B/4.6	250A TPN MCCB, (adjustable in 150 – 250A range)	No	3				
B/4.7	150A TPN MCCB, (adjustable in 125 – 150A range)	No	3				
B/4.8	125A TPN MCCB, (adjustable in 80 – 125A range)	No	1				
B/4.9	63A TPN MCCB, (adjustable in 40 – 63A range)	No	2				
B/4.10	250A TPN MCCB spare way	No	1				
B/4.11	100A TPN MCCB spare way	No	1				
B/4.12	Set of neon phase presence indicator lamps - All indicators	No	1				
B/4.13	Sufficient cable ways and 20% spare space for any future additions	Lot	1				
B/4.14	Supply and install of 150 kVAR power factor correction capacitor bank in LV Switchboard	No	1				
B/5	Section 5 – Uchumi Wing LV Board & PFCU	UNIT	QTY	WARRANTY / DELIVERY SCHEDULE	UNIT PRICE VAT INCLUSIVE	DDP	TOTAL PRICE DDP VAT INCLUSIVE
B/5.1	1200 A TPN ACB EDO (Uchumi wing)	No	1				

B/5.2	CT three phase digital check meter	No	1			
B/5.3	1200Amp TPN insulated copper bus bars	No	1			
B/5.4	630A TPN MCCB, (adjustable in 400 – 630A range)	No	1			
B/5.5	400A TPN MCCB, (adjustable in 250 – 400A range)	No	1			
B/5.6	250A TPN MCCB, (adjustable in 150 – 250A range)	No	3			
B/5.7	150A TPN MCCB, (adjustable in 125 – 150A range)	No	2			
B/5.8	125A TPN MCCB, (adjustable in 80 – 125A range)	No	2			
B/5.9	63A TPN MCCB, (adjustable in 40 – 63A range)	No	2			
B/5.10	150A TP Change over (allow for sprinkler board during fire emergencies)	No	1			
B/5.11	250A TPN MCCB spare way	No	1			
B/5.12	100A TPN MCCB spare way	No	1			
B/5.13	Set of neon phase presence indicator lamps - All indicators	No	1			
B/5.14	Sufficient cable ways and 20% spare space for any future additions	No	1			
B/5.15	Supply and install of 150 kVAR power factor correction capacitor bank in LV Switchboard (Uchumi Wing)	No	1			
B/6	Supply and install complete all earthing requirements for the above boards including, inspection pits, rods, tapes etc. all as per the requirements of the technical specifications.	Lot	1			
B/7	Allow for the transfer of all existing circuits to the new main Switchboard. Please study	Lot	1			

	the existing arrangement first before pricing this item.					
B/8	<p>Bidders to do site inspection to ascertain cable requirement before quoting this section.</p> <p>GSM/GPRS module incorporated to send SMS alerts.</p> <ul style="list-style-type: none"> • Power monitoring (using branch circuit monitor) • Genset low fuel alerts • Operation of changeover • High Temperature alerts • Faults 	Lot	1			
B/9	<p>Supply and installation of Fireman Switch as per drawing or appropriately design to ensure overall safety.</p>	Lot	1			
B/9	<p>Supply of spares parts</p>					
	1600 A TPN draw out type ACB EDO	No	1			
	1200 A TPN ACB EDO	No	1			
	250A MCCB	No	2			
	SUB-TOTAL - B					
C	DR Distribution Board	UNIT	QTY	WARRANTY / DELIVERY SCHEDULE	UNIT PRICE VAT INCLUSIVE	TOTAL PRICE DDP VAT INCLUSIVE
C/1	<p>Supply, install, test, commission and set to work the following on Second Floor Data Centre: -</p> <p>The switchboard panel complete with the following: -</p>					
C/1.1	<p>630A TPN draw out type ACB EDO main incomers (for the existing 2No. x Supply line from basement)</p>	No	3			

		and bus coupler)											
C/1.2		Supply CT three phase digital check meter	No	2									
C/1.3		400A TPN MCCB, (adjustable in 250 – 400A range) out going feeders to UPS and other DBs within the data centre	No	4									
C/1.4		250A TPN MCCB, (adjustable in 150 – 250A range) incoming feed from UPS	No	2									
C/1.5		6 Way DB full populated	No	1									
C/1.6		400A TPN MCCB, (adjustable in 250 – 400A range) incoming feeders from UPS.	No	4									
C/1.7		630A TPN draw out type ACB EDO main incomers (for the existing 2No. x Supply line from basement and bus coupler)	No	3									
C/1.8		250A TPN MCCB, (adjustable in 150 – 250A range) Clean power	No	6									
C/1.9		GSM/GPRS module incorporated to send SMS alerts. <ul style="list-style-type: none"> • Power monitoring (using branch circuit monitor) • Operation of changeover • High Temperature alerts Faults	No	1									
		SUB-TOTAL - C											
			UNIT	QTY	WARRANTY / DELIVERY SCHEDULE	UNIT PRICE VAT INCLUSIVE	DDP	TOTAL PRICE DDP VAT INCLUSIVE					
D		Civil Works											
	D/1	Civil/Building works	Lot	1									

		Allow for fabrication of partitions to house extensions for LV board. Ensure good ventilation in both the LV Switchrooms and transformer room						
D/2		Replace Existing doors with appropriate fire rated doors to ensure good aeration, enough natural light	Lot	1				
D/3		Supply and install Evacuations fans/units 2 in each room, with screens in LV Switchroom, Utility room, transformer room and Synchroniser Room, Units auto control with temperature sensors i.e. temp >30°C	Lot	1				
D/4		All cables to be secured on appropriate cable trays	Lot	1				
D/5		Supply and install Light units	Lot	1				
D/6		Paint the whole area with fire rated paints and ensure no dust	Lot	1				
D/7		Label of rooms with KPLC logo's Carry out comprehensive labelling of all the bus bars, circuit breakers etc. of the board above, indicating the areas served, outgoing cable sizes etc.	Lot	1				
		SUB-TOTAL - D						
		TOTAL LV BOARD (A, B, C, D)						

LOT 2: SUPPLY & INSTALLATION OF RISER BOARDS & ACCESSORIES

Note: All the riser DBs to be fully populated with appropriate MCBs to ensure all circuits are powered.

ITEM	DESCRIPTION	UNIT	QTY	WARRANTY / DELIVERY SCHEDULE	UNIT PRICE VAT INCLUSIVE	DDP	TOTAL PRICE DDP VAT INCLUSIVE
A	<u>GENERAL ITEMS</u>						
A/1	Allow for the inspection of the Riser LV and meter boards, decommissioning, disconnection of the existing boards and services and handing over to the client with signed delivery note, modifications and replacement of any accessories such as cable glands and lugs etc.	Lot	1				
A/2	Allow for the preparation of all "As Built – one line diagrams" drawings after testing and commissioning	Set	2				
A/3	The Tenderer is to describe hereunder inserting any relevant clause number, any other works, obligations or items that may be referred to in the Conditions of Contract, Specification, Drawings or Data Schedule in respect of the works for which he desires to enter a separate charge (this charge is to be entered in the Amount column). If no charge is entered hereunder, rates and amounts elsewhere in the schedule of prices shall be deemed to cover all expenses for such works, obligations or items.	Lot	1				
	<u>SUB-TOTAL - A</u>						

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			UNIT	QTY	WARRANTY / DELIVERY SCHEDULE	UNIT PRICE VAT INCLUSIVE	DDP	TOTAL PRICE DDP VAT INCLUSIVE
B	<u>Risers Distribution Boards refurbishment</u>							
B/1	Decommissioning of existing Distribution boards, Fuses and tidying the risers, Painting	Lot	1					
B/2	Tracing of line and ensuring retouch of existing circuits and labelling to detailed.	Lot	1					
B/3	Making good all electrical wiring and electrical fittings, Labelling of all circuits	Lot	1					
B/4	Supply and installation of DBs							
B/4.1	Uchumi Wing							
B/4.1.1	1-8th Floor :- 16 way TPN DBs 160A 4P Isolators at 415Vac, 50Hz; each comprising of:	Qty	8					
	20A 3P AC-1 Contactors	No	6					
	32A 1P MCBs	Lot	1					
	10A 1P MCBs	Lot	1					
B/4.1.2	8-way TPN DBs 160A 4P Isolators at 415Vac, 50Hz; each comprising of:	Qty	8					
	32A 1P MCBs	Lot	1					
B/4.1.3	Ground Floor :- 12 way TPN DBs 160A 4P Isolators at 415Vac, 50Hz; each comprising of:	Qty	1					
	20A 3P AC-1 Contactors	No	6					
	Timer	No	1					
	10A 1P MCBs	Lot	1					
B/4.1.4	8 way TPN DBs 160A 4P Isolators at 415Vac, 50Hz; each comprising of:	Qty	1					
	32A 1P MCBs	Lot	1					
B/4.2	Harambee Wing							

B/4.2.1	2-14th Floor :- 8 way TPN DBs 160A 4P Isolators at 415Vac, 50Hz; each comprising of:	Qty	13		
	20A 3P AC-1 Contactors	No	5		
	32A 1P MCBs	Lot	1		
	10A 1P MCBs	Lot	1		
B/4.2.2	8 way TPN DBs 160A 4P Isolators at 415Vac, 50Hz; each comprising of:	Qty	13		
	Lot - 32A 1P MCBs				
B/4.2.3	First Floor :- 16 way TPN DBs each comprising of: 1no. 160A 4P Isolators at 415Vac, 50Hz;	Qty	1		
	20A 3P AC-1 Contactors	No	7		
	10A 1P MCBs	Lot	1		
B/4.2.4	6 way TPN DBs each comprising of: 1no. 160A 4P Isolators at 415Vac, 50Hz	Qty	2		
	32A 1P MCBs	Lot	1		
	10A 1P MCBs	Lot	1		
B/4.2.5	Basement Floor :- 8 way TPN DBs each comprising of: 1no. 160A 4P Isolators at 415Vac, 50Hz;	Qty	2		
	32A 1P MCBs	Lot	1		
	10A 1P MCBs	Lot	1		
B/5	Allow for (provisional) 2.5mm sq cable (single core PVC/SWA/PVC) to be used on the risers. Bidders to do site inspection to ascertain cable requirement before quoting this section.	Lot	1		
	SUB-TOTAL – B				
TOTAL RISER BOARDS & ACCESSORIES (A, B)					