

Provisional Bill of Quantities for the Electrification of Government Buildings in Omusati Region - 2023-24							
	Description	Unit	Qty	Labour Rate	Material Rate	Total Rate	Total (Qty*Total)
							*****
1	<b>PRELIMINARY AND GENERAL</b>						*****
	<b>General P and G's</b> <u>Note: These items cover all project sites in Omusati region. This section shall not exceed 8% of the total tender price!</u>						*****
1.1	Establishment of Site	Item	1				
1.2	Setting out of works	Item	1				
1.3	Insurances as per bid contract	Item	1				
1.4	Performance Guarantee for the contract	Item	1				
1.5	Transport	Item	1				
1.6	<b>Others - Please specify</b>						
	.....						
	Carried forward to BID SUMMARY					<b><u>TOTAL</u></b>	N\$

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							n/a
3	<b>INSTALLATION OF GOVERNMENT BUILDINGS - SCHOOLS /CHURCH / ADMIN</b>						*****
3	<b>Supply cable, terminations and reticulation</b>						*****
	Supply , delivery and installation of 600/1000V PVC/PVC/SWA/PVC and AIRDAC copper cables. Rates for PVC/PVC/SWA/PVC cables shall include for bare copper earth continuity conductor (sized in accordance with SABS). Rates for all cables shall include for laying, danger tape, back filling, installation of appropriate galvanised trunking under/ above meter and distribution boards, and termination of cables with glands and shrouds at boards.						*****
3.1	<b>Cable sizes:</b>						*****
3.1.1	10sqmm x 2 core + 6sqmm BCEW	m	1217				
3.1.2	4mm <sup>2</sup> x 3core Surfex Cable	m	0				Rate Only
3.2	<b>Termination of above including making off, gable gland / type CCG, shroud and terminated</b>						
3.2.1	4x10 cables Size 1	No	0				Rate Only
3.2.2	2x10 cables size 2	No	66				
3.3	<b>Trenching, danger tape and backfilling with soft sand.</b>						*****
3.3.1	Trenching in 100% soft rock, 700mm deep and 300 mm wide	m	0				Rate Only
3.3.2	Trenching in 100% pickable soil, 700mm deep and 300 mm wide	m	1158				
3.4	<b>Weatherproof DBs</b>						
	Supply, delivery and installation of weatherproof surface-mounted distribution boards. The boards shall be epoxy powder coated and shall have top-hung doors with padlockable latches, equal to the GEM manufacture manufacture. Rates shall include for all sheet metal frames and sub-frames, panels, cut-outs, busbars, fixtures, fittings, architraves, trays, blank covers, and labelling of the board with engraved perspex labels with 10mm high black lettering on white background (LABELS TO BE RIVETTED INTO PLACE).						*****
	Distribution board sizes ("module" refers to the width of a 2.5kA Heinemann type SA (SAMITE) single pole circuit breaker (=13mm):						*****
3.4.1	<b>6 module - surface mounted</b>	No	2				
3.4.2	<b>12 module - surface mounted</b>	No	18				
3.5	<b>Earthing</b> of main distibution boards or kiosk with 16sqmm green PVC insulated copper conductor terminating on a 1.2m long 16mm dia. solid steel copper bonded earth spike burried 1.5m below ground level.	No	9				
3.6	<b>Meters, Meterboards, Meter- earthing, PPMeter installations, PPM&amp;Readyboard installation - at and for all consumers</b>						*****
3.6.1	STS Pre-Paid Meter, equal or equivalent to Landis & Gyr or Itron (with Escom base) delivered, installed and commissioned.	No.	3				
3.6.2	Three Phase STS Pre-Paid Meter, equal or equivalent to Landis & Gyr or Itron (with Escom base) delivered, installed and commissioned.	No.	0				Rate Only
	Carried forward to NEXT PAGE					<b>SUB - TOTAL</b>	N\$ -

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<b>3 cont.</b>	<b>INSTALLATION OF GOVERNMENT BUILDINGS</b>						*****
3.6	<b>SWITCHGEAR MINIATURE CIRCUIT BREAKERS (MCBs)</b>						*****
3.6.1	Supply, delivery, installation, wiring, and connection of Heinemann type SF (rated 5kA) and SA (rated 2.5kA) MCBs. Rates shall include for labelling of the circuit						*****
3.6.1.1	45A - 2.5kA SPole MCB	No	1				
3.6.1.2	40A - 2.5kA SPole MCB	No	5				
3.6.1.3	30 A - 2.5kA Spole MCB:	No	23				
3.6.1.4	25A - 2.5kA SPole MCB	No	16				
3.6.1.5	20A - 2.5kA SPole MCB	No	6				
3.6.1.6	15A - 2.5kA SPole MCB	No	25				
3.6.1.7	10A - 2.5kA SPole MCB	No	53				
3.6.1.8	5A - 2.5kA Spole MCB	No	7				
3.6.2	<b>Earth Leakage Units (30 mA) ELU's</b>						*****
	Supply, delivery, installation, wiring and connection of Heinemann type SA earth leakage disconnecter						*****
3.6.2.1	63 A 3kA Single pole ELU	No	16				
3.7	<b>Daylight Switches</b>						*****
3.7.1	Supply,delivery, installation, wiring and connection of daylight switch mounted inside a circle bulkhead light fitting over a round outlet box with a blank cover plate / or alternatively installed inside the DB - rated at 16 A, - complete - with bypass circuitbreaker.	No	13				
	<b>All new electrical installations, including DBs, light points and switches, switched socket outlets, isolators and all conduiting, shall be surface-mounted. Only plain-end steel conduit equal to BOSAL LOCKFIT shall be used. Where visible, the conduit shall be galvanised and properly saddled. Wiring shall be done in</b>						*****
3.80	<b>Light points - including 20mm steel conduits, 2.5mm2 wires (live, neutral &amp; earth), junction boxes, etc.</b>						*****
3.8.1	Installation of outlet point for light fitting, including all conduiting (20mm), ducting, wires (2.5mm2 for lighting circuits) and wiring from the DB through a light switch (measured elsewhere). Light points may be wall-, roof- or ceiling-mounted and shall consist of a 60mm dia, round steel outlet box.	No	220				
3.9	<b>Switched Socket Outlets Points SSO - Single, including 2.5mm2 wires (live, neutral &amp; earth), 20mm steel conduits, etc</b>						*****
3.9.1	Installation of outlet point for 16A single-phase switched socket outlet (SSO), including all conduiting (20mm), ducting, 2.5mm2 wires and wiring from the DB.	No	48				
3.10	<b>Switched Socket Outlets SSO - Single</b>						*****
3.10.1	Installation of 16A single-phase switched socket outlet (SSO)	No	48			-	\$ -
	Carried forward to NEXT PAGE						<u>SUB - TOTAL</u> N\$ -

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<b>3 cont.</b>	<b>INSTALLATION OF GOVERNMENT BUILDINGS - SCHOOLS /CHURCH / ADMIN</b>						*****
3.11	<b>Light switches</b>						*****
3.11.1	<u>For inside installation.</u> <b>Single lever switch point</b> , Litemaster or equal, installed inside a surface-mounted 100mm x 50mm x 50mm epoxy powder-coated galvanised pressed steel extension box with appropriate cover plate.	No	43				
3.11.2	<u>For inside installation.</u> <b>Single lever two way switch point</b> , Litemaster or equal, installed inside a surface-mounted 100mm x 50mm x 50mm epoxy powder-coated galvanised pressed steel extension box with appropriate cover plate.	No	0				Rate Only
3.11.3	<u>For inside installation.</u> <b>Double lever switch point</b> , Litemaster or equal, installed inside a surface-mounted 100mm x 50mm x 50mm epoxy powder-coated galvanised pressed steel extension box with appropriate cover plate.	No	5				
3.11.4	<u>For outside installation</u> <b>16A weatherproof switch</b> . Litemaster or equal	No	0				Rate Only
3.14	<b>Earthing and bonding per building, including:</b>						*****
3.14.1	Earthing of diagonally opposite metallic roof corners with 16sqmm green PVC insulated copper conductor terminating on a 1.2m long 16mm dia. solid steel copper bonded earth spike buried 1.5m below ground level: and	No	37				
3.14.2	Bonding of all metallic water systems etc. in accordance with SABS 0142 - per building.	No	0				Rate Only
3.15	<b>Light Fittings</b>						*****
	<b>Supply, delivery and installation of lighting fittings, complete with accessories, against outlet points on walls, roofs or ceilings. Lighting fittings shall not be suspended from the outlet box.</b>						*****
3.15.1	Type A: Radiant Lighting 5FT Double Vapour Proof T8 LED with 2x24W with lamps, IP65 or similar approved	No	153				
3.15.2	Type B: Wall / Ceiling Mounted LASCON B-10 LED, White IP65, Round Polycarbonate bulkhead, applicable in ablution blocks / external wall.	No	67				
3.16	Supply, delivery and Installation of School Bell / siren with a press - release button and Siren - to specification. A motorised siren - equal or equivalent to SIRENCO 500SL, 220Vac, 0.7A, 113 dB, 5 minutes duty cycle, 10 minutes thermal cut-out protected, IP45. Alternatives, specification to be submitted for approval	No	7				
3.17	Commissioning of the existing installation as required and requested by the engineer - testing of all light circuits, sso, earthing, etc ( <b>per DB</b> )	Item	7				
3.18	P2000 trunking - supply cables between the distribution boards	m	50				
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4	PC ITEMS AND CONTINGENCIES						*****
	NOTE: No percentage profit or attendance will be paid to these items unless directly involved.						
4.1	Project Contingency -	item	1			N\$ 40,000.00	N\$ 40,000.00
	Carried forward to BID SUMMARY					SUB - TOTAL	N\$ 40,000.00

<b>Provisional Bill of Quantities for the Electrification of Government Buildings in Omusati Region - 2023-24</b>		
<b>1</b>	PRELIMINARY AND GENERAL	N\$ -
<b>2</b>	INTENTIONALLY LEFT BLANK	
<b>3</b>	INSTALLATION OF GOVERNMENT BUILDINGS - SCHOOLS /CHURCH / ADMIN	N\$ -
<b>4</b>	PC ITEMS AND CONTINGENCIES	N\$ -
<b>5</b>	<b>SUBTOTAL (sum of items 1 .. 4)</b>	N\$ -
<b>6</b>	<b>15% VAT (on item 5)</b>	N\$ -
<b>7</b>	<b>TOTAL BID AMOUNT (items 5+6) carried forward to BID cover sheet</b>	N\$ -