PRELIMINARY AND GENERAL

Section	Item Description	Unit	Qty	Rate	Amount
	BILL NO 1.0				
1.0	**GENERAL REQUIREMENTS AND PROVISIONS**				
1.1	**Name boards**				
1.1.1	Supply, Install Contract name board as per drawing	No	1		
1.2	**Relocating and/or Protecting of Existing services**				
1.2.1	Payment for the relocation and/or protecing of existing Services	No	9.0		
1.3	**Community Liaison Office (CLO)**				
1.3.1	Remuneration of the CLO for the duration of the contract	Mnth	9	R 5,000.00	R 45,000.00
1.4	**Project Steering Committee (PSC):**				
1.4.1	Payment of expenses/disbursements to members of the PSC	Prov Sum	1.0	R 70,000.00	R 70,000.00
	Handling costs and profit in respect of 1.4.1	%	1.0	10%	R 7,000.00
1.5	**Site Establishment**				
	Provide a Site office, storage for plant - material- equipment, ablutions , drinkable water on site in accordance to contract terms	Sum	1.0		
1.6	**Works Guarantee**				
1.6.1	Allow for guarantee period of 12 months against defects in equipment, material & workmanship, but excluding abuse, wear and tear and normal maintenance. Cover all sureties and insurances called for in this contract.	Mnth	12.0		
1.7	**Safety Regulations**				
	The Electrical Contractor is to invoke adequate allowances to abide by the OHS ACT 85 of 1993.This will include the services of a competent safety officer that will ensure that all requirements pertaining to the construction regulations have been met for the duration of the contract.				
1.7.1	Make provision for staff PPE	Sum	1.0		
1.7.2	Fall arrest system / ladders / Safety Signage..etc	Sum	1.0		
1.7.3	Make Provision for a Health & Safety Officer	Mnth	9.0		
1.7.4	Health & safety plan, file & requirements as per OHS ACT 85 of 1993	Sum	1.0		
1.8	**Works Completion Documention**				
1.8.1	Allow for the marking up, annotating of a set of drawings to accurately represent the constructed works. Supply As-Built drawings to the Engineer upon completion of works	Sum	1.0		
1.8.2	Submit Operation and Maintenance Manuals of the installations to the engineer	Sum	1.0		
1.9	**Security Officer**				
1.9.1	Provision of Security Service for Site Storage for duration of contract	Mnth	12.0	R 6,000.00	R 72,000.00
Total Carried Forward To Summary					

HIGH MAST POLES

Section	Item Description	Unit	Qty	Rate	Amount
	BILL NO.2				
2.0	**INSTALLATION OF 9 HIGH MAST POLES**				
	Tenderer to submit manufacturers technical data sheet with reference to the proposed 22m high mast pole.				
2.1	**Delivery of 22m High Mast Poles to Site**				
	Allow for design, manufacture, supply and delivery of 9 x 22m high mast poles to storage site as specified complete with headframe, luminaire carriage, accessories, distribution board (complete with switchgear, surge protection equipment, appropriately rated MCB's, meter, and splitter, appropriately rated contactor), terminal box, test lead, photocell, mast cables, etc (excluding the luminaires)				
2.1.1	Suppy of 22m High Mast Poles for the Project	No	9		
2.1.2	Allow for Loading and Offloading of Pole Material / Site	No	9		
2.1.3	Allow for delivery of high mast poles to different 9 locations for installation works	No	9		
2.2	**High Mast Foundations**				
2.2.1	Excavation and casting of foundations for 22 m high mast poles based on measured soil pressure parameters , re-inforcing, bolt cage, 35MPA concrete, earthing and certified engineering design (Test cubes measured separately).	No	9		
2.2.2	Allow for reinforcement of foundations with steel bars (if deemed necessary from soil pressure testing)	No	9		
2.2.3	Allow For Civil Engineer's Design of the High Mast Foundations	Sum	1	R 80,000.00	R 80,000.00
2.3	**Concrete Test Certificates**				
	Test certificates for concrete tested at 7 and 28 days, for every mast foundation as specified (three cubes per mast if from same batch).				
2.3.1	Testing and Certificates	No	9		
2.4	**Soil Pressure Tests**				
	Allow for Soil bearing pressure tests by mast supplier/contractor, to determine correct design of foundation, complete with test certificates signed by the supplier's professional engineer				
2.4.1	Soil Test Results	No	9		
2.5	**Assembly and Hoisting of High Mast Poles**				
	Allow for the site assembly of the 22 m high mast pole on site, use of special equipment, raising of high mast poles using cranes, fixing of solar LED flood luminaires on the high mast , hinging up the high mast pole with lights fixated on the high mast pole				
2.5.1	Assembly of 22m high mast poles	No	9		
2.5.2	Lifting and Erection of high mast poles using a crane	No	9		
2.5.3	Fixing of luminaires on 22 m high mast pole and hoisting high mast pole erect	No	9		
Total Carried Forward					

Section	Item Description	Unit	Qty	Rate	Amount
Brought Forward					
2.6	**Earthing and Lightning Protection**				
2.6.1	Supply and install all earthing materials per mast, including the lightning spike on top of the high mast - as specified	No	9		
2.6.2	Supply and install earthing system, test and confirm compliance with 10Ω earth resistance, complete with 1 X 70mm² (30m long) bare copper earth wire,	No	9		
2.8	**Mast door Key**				
2.8.1	Supply and installation of special key for opening of the enclosed mast door	No	9		
2.9	**Labelling of High Mast Pole**				
2.9.1	Labelling of high masts as specified by the Engineer	No	9		
Total Carried Forward To Summary					

SOLAR FLOOD LIGHTS

Section	Item Description	Unit	Qty	Rate	Amount
	BILL NO.3				
3.0	**SUPPLY AND INSTALLATION OF SOLAR FLOOD LIGHTS**				
	Tenderer is to propose a solar LED solution for the municipality. The Tenderer is to attach manufacturers solar LED flood light datasheet. Municipality will analyse proposed solar LED solution against functionality, reliability, robustness, autonomy and cost.				
3.1	**Solar Flood Light Solution**				
3.1.1	Supply and install solar LED Lights complete with Solar panels, charge controller and energy storage. **(Specify total number of lights for the entire project)**	No			
3.1.2	Deliver solar flood lights to site from manufacturer to site store	Prov Sum	1.00		
3.1.3	Deliver Solar flood lightst to 9 different locations for installation works	No	9.00		
3.1.4	Test functionality of the lights in the presence of the engineer on all 9 x 22m high mast poles	No	9.00		
3.2	**Earthing System**				
3.2.1	Bond all metallic surfaces of the lights to the high mast to create an equipotential zone via the earthing of the high mast pole	No	9.00		
3.3	**Illumination Test Results**				
			1.00		R -
3.3.1	Allow for testing and measuring of mast light illumination against submitted photometric data and submit measurement results to engineer	No	9.00		
3.4	**Commissioning**				
3.4.1	Allow for commissioning of all lights on all new 9 x high masts poles in Kwabhaca area, supply all test certificates and certificates of compliance	No	9.00		
Total Carried Forward To Summary					

Umzimvubu LM/ Installation of 9 Solar High Mast Lights
Summary Section of Bill of Quantities

SUMMARY OF SECTIONS

SECTIONS	DESCRIPTIONS	AMOUNTS
BILL NO.1	GENERAL REQUIREMENTS AND PROVISIONS	
BILL NO.2	INSTALLATION OF HIGH MAST POLES	
BILL NO.3	INSTALLATION OF SOLAR LED FLOOD LIGHTS	
	TOTAL OF SCHEDULE OF QUANTITIES	
	PROVISIONAL SUM FOR CONTINGENCIES (10% OF SUB-TOTAL A)	
	SUB-TOTAL B	
	VALUE ADDED TAX (15% OF SUB-TOTAL B)	
	TOTAL CARRIED FORWARD TO FORM OF OFFER AND ACCEPTANCE	