

**KANANA PHASE C: INSTALLATION OF HIGH MAST LIGHTS
BILL OF QUANTITIES**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
SECTION A:					
PRELIMINARY, GENERAL AND PROVISIONS					
A.1	PRELIMINARY AND GENERAL				
A.1.1	SITE ESTABLISHMENT				
	Facilities for Contractor				
	1. Site Camp Establishment, Site Office, Office Furniture and Equipment, Store, Ablution, Rental, Transport, Clearing of Site, Site Supervision.	Each	1		
	Facilities for Engineer				
	2. Engineer's Office and office furniture, Cellular Phone	Each	1		
A.1.2	PRELIMINARIES				
	3. Induction and Medical – General workers	Each	3		
	4. Induction and Medical – Sub-Contractors	Each	3		
	5. Management of Local Sub-Contractors	Each	3		
	6. Preparation and submission of a construction program to the Engineer as required in the documents.	Each	3		
	7. Three sets construction drawings to the Engineer for approval.	Each	3		
	8. Three sets of hard copies and an electronic copy of "As-built" drawings and test certificates to the Engineer on hand-over.	Each	3		
	9. Instructions to maintenance staff of operating and maintenance procedures, including three sets of Instruction manuals.	Each	3		
	10. Triplicate log book to record all events on site	Each	3		
	11. Temporary Traffic Control Facilities	Each	1		
	12. Supply and Install name board (1850 x 1850mm), with the projects, contractor, client and consultants details on - prior approval from clienty required.	Each	1		
A.1.3	COMPLIANCE				
	1. Compliance with Safety Requirements as set out in the OHS Act. This will include a safety plan, the holding of safety meetings, appointing of safety representatives, the co-ordination of all safety requirements for all sub-contractors.	Sum	1		
	2. Crane for erection of highmasts	Sum	1		
TOTAL FOR SECTION A1					
A.2	PROVISIONAL SUMS:				
	For Work to be executed through Local Employment, nominated sub-contractor and Special Services				
	1. Remuneration for Community Liaison Officer	Months	6	R 7 500.00	R 45 000.00
	2. Remuneration for 3 x Security	Months	6	R 12 000.00	R 72 000.00
	3. Remuneration for OHS Representative and Agent	Months	6	R 12 000.00	R 72 000.00
	4. Provision for Special Services (Civil & Electrical) in according to ECSA rates.	Sum	1	R 297 999.90	R 297 999.90
	5. Minor Civil works (i.e New Paving and other associated works)	Sum	1	R 385 000.00	R 385 000.00
	6. Provision for application for Electrical connection fees to Municipal supplied point or Eskom point: (16kVA Trfr, Complete Trfr Connection Box, 3 phase Meter and 16mm ² x 4 core Cu supply cable)	Sum	1	R 2 300 000.00	R 2 300 000.00
	7.Provision of training to Municipal Staff	Sum	1	R 60 000.00	R 60 000.00
TOTAL FOR SECTION A2					
					R 3 231 999.90
ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL AMOUNT
SECTION B:					
TESTS					
B.1	Soil geotechnical studies for foundation including soil and concrete cube tests.	No	11		
B.2	Perform soil bearing pressure tests for each mast prior to casting the concrete base to ensure that the soil load bearing conditions are suited to the specific concrete base design. Provide soil test Certificate	No	11		
B.3	Test earth system and provide test certificate	No	11		
TOTAL FOR SECTION B					
SECTION C:					
FOUNDATIONS					
C.1	Concrete foundation for high mast complete with excavation, steel reinforcing, cables inlet pipes, earth spikes, foundation bolts and template set, back fill material, soil and concrete test. etc. in the following soil conditions,				
C.2	Soil ("Normal")	m ³	11		
C.3	Soft rock ("Difficult")	m ³	44		
C.4	Hard rock ("Hard")	m ³	99		
C.5	Disposal of surplus unsuitable material at an approved site	m ³	138		
C.6	Additional G5 Material incorporated + Labour for backfilling and footing	m ³	44		
C.7	Excavating and casting of high mast plinth complete and inclusive of materials with soil tests Engineering certificate and earthing	per pole	11		
C.8	Provide dump rock of minimum size 80mm	m ³	35		
C.9	Provide a minimum of 50mm thickness blinding layer below footing 15MPa concrete	m ³	24		
C.10	Provide a Bidim A4 geotextile lining or equally approved geotextile	m ²	150		
TOTAL FOR SECTION C					

