

MAKHUDUTHAMAGA LOCAL MUNICIPALITY				
TRAFFIC LIGHTS MAINTENANCE				
BILL OF QUANTITIES				
ITEM	DESCRIPTION	UNIT	Scheduled Qty	Rate
	BILL 2			
	TRAFFIC LIGHTS			
	The contractor, supply, install and commission the Traffic Lights as and when required.			
2	3,5m STEEL POLES FOR TRAFFIC LIGHTS			
2.1	Material	m	rate only	
2.2	Installation	m	rate only	
	Type ESA 10 Four Phase Controller			
2.3	Material(Including Programming)	m	rate only	
2.4	Installation	m	rate only	
	AMR Galvanised Controller pole with foundation frame and mounting bolts			
2.5	Material	m	rate only	
2.6	Installation	m	rate only	
	Z3 Pole Top Terminal boxes			
2.7	Material	No	rate only	
2.8	Installation	No	rate only	
	Aspect MKV Vehicular Signal Head fitted with A-LED Optics			
2.9	Material	No	rate only	
2.10	Installation	No	rate only	
	Aspect MKV Pedestrian Signal Head fitted with A-LED Optics			
2.11	Material	No	rate only	
2.12	Installation	No	rate only	
	Pole Mounting Straps - Galvanised			
2.11	Material	No	rate only	
2.12	Installation	No	rate only	
	Underground Cable for the Traffic Lights			
2.11	Material	m	rate only	
2.12	Installation	m	rate only	

ITEM	DESCRIPTION	UNIT	Scheduled Qty	Rate
	BILL 3			
13	LOW VOLTAGE CABLES			
	Low Voltage cables 600 to 1000 PVC insulated steel wire armoured underground cable			
	Cable in trenches, sleeves and building duct also in ceiling void			
	70 mm sq x 4 core			
13.1	Material	m	rate only	
13.2	Installation	m	rate only	
	50mm sq x 4 core			
13.3	Material	m	rate only	
13.4	Installation	m	rate only	
	35mm sq x 4 core			
13.5	Material	m	rate only	
13.6	Installation	m	rate only	
	16mm sq x 4 core			
13.7	Material	m	rate only	
13.8	Installation	m	rate only	
	10mm sq x 4 core with 6mm clean earth wire			
13.9	Material	m	rate only	
13.10	Installation	m	rate only	
	TERMINATIONS			
	70mm sq x 4 core			
13.11	Material	No	rate only	
13.12	Installation	No	rate only	
	50mm sq x 4 core			
13.13	Material	No	rate only	
13.14	Installation	No	rate only	
	35mm sq x 4 core			
13.15	Material	No	rate only	
13.16	Installation	No	rate only	
	16mm sq x 4 core			

ITEM	DESCRIPTION	UNIT	Scheduled Qty	Rate
14	COPPER EARTH WIRE			
	70mm sq			
14.1	Material	m	rate only	
14.2	Installation	m	rate only	
	50mm sq			
14.3	Material	m	rate only	
14.4	Installation	m	rate only	
	35mm sq			
14.5	Material	m	rate only	
14.6	Installation	m	rate only	
	25mm sq			
14.7	Material	m	rate only	
14.8	Installation	m	rate only	
	16mm sq			
14.9	Material	m	rate only	
14.10	Installation	m	rate only	
15	Yellow Cable Marker / Danger Tape			
15.1	Material	m	rate only	
15.2	Installation	m	rate only	

ITEM	DESCRIPTION	UNIT	Scheduled Qty	Rate
	BILL 6			
16	SLEEVES AND EXCAVATION			
	PVC SLEEVES complete with bends			
	100mm dim			
16.1	Material	m	rate only	
16.2	Installation	m	rate only	
	50mm dim			
16.3	Material	m	rate only	
16.4	Installation	m	rate only	
	Excavation			
16.5	Soft Rock and Earth	m3	rate only	
16.6	Hard Rock	m3	rate only	
16.7	Very Hard Rock	m3	rate only	
	Sifted Soil Bedding and Cover			
16.8	Material	m3	rate only	
16.9	Labour	m3	rate only	
17	Allow for the installation of cables sleeves into existing building including			
	Repair of concrete and screet	lot	rate only	
18	Manholes 600 x 600mm with Heavy duty Steel cover			
18.1	Material	No	rate only	
18.2	Labour	No	rate only	
19	Concrete Cable Markers			
19.1	Material	No	rate only	
19.2	Labour	No	rate only	