

MAKHUDUTHAGA LOCAL MUNICIPALITY				
ELECTRICAL INSTALLATION BUILDING SERVICES				
BILL OF QUANTITIES				
ITEM	DESCRIPTION	UNIT	Scheduled Qty	Rate
	BILL 2			
	CONDUIT WORK			
	Flush in walls, floors and concrete slabs against wooden and steel structures and walls in ceiling void, indoor and outdoor, chasing of floors and walls where necessary, etc.			
2	CONDUIT			
	20 mm dia Black Steel			
2.1	Material	m	rate only	
2.2	Installation	m	rate only	
	20 mm dia PVC			
2.3	Material	m	rate only	
2.4	Installation	m	rate only	
	25 mm dia			
2.5	Material	m	rate only	
2.6	Installation	m	rate only	
3	STEEL BOXES AND COVER PLATES			
	Round conduit boxes			
3.1	Material	No	rate only	
3.2	Installation	No	rate only	
	Galvanized Steel			
	100 x 50 x 50 mm			
3.3	Material	No	rate only	
3.4	Installation	No	rate only	
	100 x 100 x 50 mm			
3.5	Material	No	rate only	
3.6	Installation	No	rate only	

ITEM	DESCRIPTION	UNIT	Scheduled Qty	Rate
	TOTAL BROUGHT FORWARD			
	Draw boxes			
	1000mm P9000 wiring channel with cover installed behind floorstanding DB			
3.7	Material	m	rate only	
3.8	Installation	m	rate only	
	Standard Coverplates			
	Round : Standatd and Oversized.			
3.9	Material	No	rate only	
3.10	Installation	No	rate only	
	100 x 50 Enamel			
3.11	Material	No	rate only	
3.12	Installation	No	rate only	
	100 x 100 Enamel			
3.13	Material	No	rate only	
3.14	Installation	No	rate only	
4	CONDUCTORS			
	In conduit, wiring channel and power skirting etc			
	PVC Insulated copper conductors			
	1,5sq mm			
4.1	Material	m	rate only	
4.2	Installation	m	rate only	
	2,5sq mm			
4.3	Material	m	rate only	
4.4	Installation	m	rate only	
	Re-installation of the existing wiring	m	rate only	
	4sq mm			
4.5	Material	m	rate only	
4.6	Installation	m	rate only	
	Re-installation of the existing wiring	m	rate only	
	6sq mm			
4.7	Material	m	rate only	
4.8	Installation	m	rate only	
	Re-installation of the existing wiring	m	rate only	

ITEM	DESCRIPTION	UNIT	Scheduled Qty	Rate
	Stranded Bare Copper Earth Wire			
	1.5sq mm			
4.9	Material	m	rate only	
4.10	Installation	m	rate only	
	Re-installation of the existing wiring	m	rate only	
	2,5sq mm			
4.11	Material	m	rate only	
4.12	Installation	m	rate only	
	Re-installation of the existing wiring	m	rate only	
4.13	Material	m	rate only	
4.14	Installation	m	rate only	
	Re-installation of the existing wiring	m	rate only	
	1,5sq mm			
4.15	Material	m	rate only	
4.16	Installation	m	rate only	
	Re-installation of the existing wiring	m	rate only	
5	SWITCHES, SOCKET OUTLETS AND ISOLATORS FOR FLUSH INSTALLATION INCLUDING COVERPLATES			
	Switches			
	16 A Single Lever 1 way			
5.1	Installation and new Material	No	rate only	
5.2	Reinstallation	No	rate only	
	16A 1 Lever 2 way			
5.3	Installation and new Material	No	rate only	
5.4	Reinstallation	No	rate only	
	16A 3 Lever way with Dimmer switch			
5.5	Installation and new Material	No	rate only	
5.6	Reinstallation	No	rate only	
	16A 3 Lever 1 way			
5.7	Installation and new Material	No	rate only	
5.8	Reinstallation	No	rate only	
	16A Intermediate 1 Lever			
5.9	Installation and new Material	No	rate only	
5.10	Installation	No	rate only	

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ITEM	DESCRIPTION	UNIT	Scheduled Qty	
	16A Intermediate 2 Lever			
5.11	Material	No	rate only	
5.12	Installation	No	rate only	
	Socket Outlets with switch			
	16A 3 pin Single 100 x 100			
5.13	Installation	No	rate only	
5.14	Reinstallation	No	rate only	
	16A 3 pin Double 100 x 100			
5.15	Installation	No	rate only	
5.16	Reinstallation	No	rate only	
	16A 3 pin Watertight 100 x 100			
5.17	Installation	No	rate only	
5.18	Reinstallation	No	rate only	
	Isolators			
	30A 2 pole, 100 x 100			
5.19	Installation	No	rate only	
5.20	Reinstallation	No	rate only	
	60A 3 pole, 100 x 100			
5.21	Material	No	rate only	
5.22	Installation	No	rate only	
	60A 2 pole, 100 x 100, with front cordgrip inlet			
5.23	Installation	No	rate only	
5.24	Reinstallation	No	rate only	

ITEM	DESCRIPTION	UNIT	Scheduled Qty	
6	SQUARE TUBING			
	POWER SKIRTING			
	Supply and installation of power skirting complete with covers and end caps. Tenderers shall make provision for plugs, telephone points and computer points on the power skirting			
6.1	Installation	m	rate only	
6.2	Reinstallation	m	rate only	
7	PHOTOCELL / DAYLIGHT SWITCH			
	Royce Thompson type or equal			
7.1	Installation	No	rate only	
7.2	Reinstallation	No	rate only	
8	EARTHING AND LIGHTNING PROTECTION			
	Material	No	rate only	
	Installation	No	rate only	
9	BONDING OF DISTRIBUTION BOARDS TO WATER AND ROOF STRUCTURES			
	Material	No	rate only	
	Installation	No	rate only	
10	TESTS OF THE COMPLETE ELECTRICAL INSTALLATION AND ISSUING OF COC'S			
10.1	Material	No	rate only	
10.2	Installation	No	rate only	
	P9000 WIRING CHANNEL			
	Supply and installation of P9000 wiring channel including cover fixed on to the roof trusses			
10.1	Material	m	rate only	
10.2	Installation	m	rate only	
	P8000 - Fire Detection			
	Supply and installation of P8000 wiring channel including cover fixed on to the roof trusses			
10.1	Material	m	rate only	
10.2	Installation	m	rate only	

ITEM	DESCRIPTION	UNIT	Scheduled Qty	Rate
	BILL 3			
11	LIGHT FITTINGS			
	Fittings shall include tubes or lamps and 5A unswitched plug in his tender rates. Lamps are measured elsewhere			
	Colour to be advised where not specified			
	B1 - (Excess type WAL-1-FB-EL or equal)			
11.1	Installation	No	rate only	
11.2	Reinstallation	No	rate only	
	E - (Rondo downlighter 50W complete with Transformers			
11.3	Installation	No	rate only	
11.4	Reinstallation	No	rate only	
	F1 - (Open channel Flourescent fitting 2x36)			
11.5	Installation	No	rate only	
11.6	Reinstallation	No	rate only	
	F2 - (Excess type SML BE-236-SS-LLB or equal with Prismatic difisser)			
11.7	Installation	No	rate only	
11.8	Reinstallation	No	rate only	
	F3 - (Excess type REL-336-LLB)			
11.9	Installation	No	rate only	
11.10	Reinstallation	No	rate only	
	H - Decorative sky light fitting, mounted facing up similar to decorative display fittings @ 150W			
11.11	Installation	No	rate only	
11.12	Reinstallation	No	rate only	
	LAMPS			
	4 Foot 36W Energy Saving Lamp type, Cool White for Flourescent Fittings			
11.12	Installation	No	rate only	
11.13	Reinstallation	No	rate only	
	50W Downlighters Lamps.			
11.14	Installation	No	rate only	
11.15	Reinstallation	No	rate only	

ITEM	DESCRIPTION	UNIT	Scheduled Qty	Rate
	BILL 4			
12	DISTRIBUTION BOARDS			
	Repair or replace the entire existing DB's with new DB's at the same position and issue new COC. DB shall be installed with all cequipment required to complete the installation			
12.1	Material	No	rate only	
12.2	Installation	No	rate only	
	Reinstalation of the existing DB's	No	rate only	
	Telephone and Computer Distribution Board			
	500 x 500 x 250 mm surface type distribution board installed flush			
12.3	Material	No	rate only	
12.4	Installation	No	rate only	
	Telephone point including Telephone boot point			
12.5	Material	No	rate only	
12.6	Installation	No	rate only	
	Computer point			
12.7	Material	No	rate only	
12.8	Installation	No	rate only	
	MCCB's AND ISOLATORS TO BE INSTALLED IN THE EXISTING KIOSK K2 FOR NORMAL AND EMERGENCY SUPPLIES			
	100A (Normal Panel)			
12.9	Material	No	rate only	
12.10	Installation	No	rate only	
	PROVISION FOR THE POWER SUPPLY TO THE ATM BANK MACHINE		rate only	
12.11	Material	No	rate only	
12.12	Installation	No		

ITEM	DESCRIPTION	UNIT	Scheduled Qty	Rate
	BILL 5			
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		
13.10	Installation	m		
	TERMINATIONS			
	70mm sq x 4 core			
13.11	Material	m	rate only	
13.12	Installation	m	rate only	
	50mm sq x 4 core			
13.13	Material	m	rate only	
13.14	Installation	m	rate only	
	35mm sq x 4 core			
13.15	Material	m	rate only	
13.16	Installation	m	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	