







**BASES CONVERSION AND DEVELOPMENT AUTHORITY**  
**CONSTRUCTION OF NEW CLARK CITY CONNECTING ROAD TO INDUSTRIAL PARK**  
**NEW CLARK CITY**

**DETAILED ESTIMATE FORM**

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST (5)			MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
				Materials	Labor	Equipment	OCM	PROFIT	%	VALUE				
(1)	(2)	(3)	(4)	(5.1)	(5.2)	(5.3)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
										(5.1+5.2+5.3) X (8)	12% ((5.1+5.2+5.3)+(9))	(9)+(10)	(5.1+5.2+5.3)+(11)	(12)/(13)
605(2)ai1	Regulatory Signs, 450mm, R6-8A, Miscellaneous Signs Pedestrian Crossing	47.00	ea.											
605(2)ak1	Regulatory Signs, 450mm , R6-10A, Miscellaneous Signs Bike Lane Signs	48.00	ea.											
605(3)a1.4	Regularory Signs, U-TURN AHEAD	2.00	ea.											
612(1)	Reflectorized Thermoplastic Pavement Markings (White)	10,956.84	sq.m.											
612(2)	Reflectorized Thermoplastic Pavement Markings (Yellow)	72.74	sq.m.											
<b>TOTAL COST - MISCELLANEOUS STRUCTURES</b>														
<b>PART J</b>	<b>ROADWAY LIGHTING</b>													
	<b>Roadway Lighting</b>													
	<b>Electrical Steel Poles</b>													
624(2)aj3	10.00 meter High with Double arm supports 1.8m (road center island), with Street Light 2x90W LED Light Fixtures, 2-250W Solar Panel with complete solar panel steel bracket support, 4x150AH Gel Batteries, 2-AC-DC Hybrid Controller, 1-DC 24V power supply, including anchor bolts, nuts and washers and connection wiring cables.	246.00	set											
624(1)bj3	10.00 meter High with Single arm supports 1.8m (road intersection), with 1x90W LED Street Light Fixtures, 1-250W Solar Panel with complete solar panel steel bracket support, 2x150AH Gel Batteries, 1-AC-DC Hybrid Controller, 1-DC 24V power supply, including anchor bolts, nuts and washers and connection wiring cables.	57.00	set											
624(2)c1	6.00 meter High with Double arm supports 1.0m (walk/ bike lanes), with Street Light 2x40W LED Light Fixtures, 1-240W solar panel with complete solar panel steel bracket support, 2x90AH Gel Batteries, 1-AC-DC Hybrid Controller, 1-DC 24V power supply, including anchor bolts, nuts and washers and connecting wiring cables.	687.00	set											
<b>Conductors and Cables (Underground Electrical Works)</b>														
624(4)a	Lighting Power Cable, XLPE/PVC, 90 Degrees C, rated 600-1000v, 4/c 10 mm2	17,280.00	l.m.											
624(4)b	Lighting Power Cable, XLPE/PVC, 90 Degrees C, rated 600-1000v, 4/c 16 mm2	82,068.00	l.m.											
624(4)c	Lighting Power Cable, XLPE/PVC, 90 Degrees C, rated 600-1000v, 4/c 50 mm2	300.00	l.m.											
624(5)	<b>Grounding and Bonding (Underground Electrical Works)</b>													
	Supply and install Lightning Protection and Grounding System complete with testing and commissioning and necessary accessories as shown on drawings and as described on specifications to make the system operational.													
624(5)a	Ground wire, green PVC insulated, Building wire, 1/c 6 mm2	82,068.00	l.m.											
624(5)b	Ground wire, green PVC insulated, Building wire, 1/c 16 mm2	10,200.00	l.m.											
624(5)c	Ground wire, bare copper, 10 mm2	3,000.00	l.m.											
624(5)d	Ground Rod, 20mm dia. X 3m long copper clad	990.00	ea.											
<b>Conduit / Raceway / Fittings</b>														
624(6)a	HDPE, 100mm dia. Flexible Pipe	170,112.00	l.m.											
624(6)b	PVC Pipe, 50 mm dia.	8,168.00	l.m.											
624(6)c	PVC Pipe, 25 mm dia.	2,000.00	l.m.											
624(6)d	PVC Elbow 90 degrees x 50mm dia.	4,080.00	ea.											
624(6)e	PVC Elbow 90 degrees x 25 mm dia.	3,000.00	ea.											
624(6)f	PVC Coupling, 50mm dia.	8,168.00	ea.											
624(6)g	PVC Coupling, 25mm dia.	2,000.00	ea.											
<b>Lighting Distribution Panelboard (Low Voltage)</b>														





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				(5)			OCM	PROFIT	%	VALUE				
				Materials	Labor	Equipment								
(1)	(2)	(3)	(4)	(5.1)	(5.2)	(5.3)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
										(5.1+5.2+5.3) X (8)	12% ((5.1+5.2+5.3)+(9))	(9)+(10)	(5.1+5.2+5.3)+(11)	(12)/(3)
103(1)a	Structure Excavation, Common Soil	6,418.50	cu.m.											
SPL1200(e)1	PVC Pipe, 200mm diameter (Transmission Lines)	2,325.00	l.m.											
SPL1200(e)2	PVC Pipe, 200mm diameter (Distribution Lines)	525.00	l.m.											
SPL1200(e)3	PVC Pipe, 150mm diameter	4,083.00	l.m.											
SPL1200(e)4	PVC Pipe, 100mm diameter	3,548.00	l.m.											
SPL1200(e)5	PVC Pipe, 75mm diameter	1,703.00	l.m.											
SPL1200(e)6	PVC Pipe, 63mm diameter	5,712.00	l.m.											
SPL1200(e)7	PVC Pipe, 50mm diameter	10,775.00	l.m.											
SPL1200(e)8	PVC Reducer, 200mm x 150mm	1.00	ea.											
SPL1200(e)9	PVC Reducer, 150mm x 100mm	1.00	ea.											
SPL1200(e)10	PVC Reducer, 100mm x 75mm	2.00	ea.											
SPL1200(e)11	PVC Reducer, 200mm x 75mm	1.00	ea.											
SPL1200(e)12	Quick Coupler Valve Assembly	528.00	ea.											
SPL1200(e)13	Quick Coupler Valve Key	20.00	ea.											
SPL1200(e)14	Booster Pump Station 1	1.00	l.s.											
SPL1200(e)15	Booster Pump Station 2	1.00	l.s.											
<b>TOTAL COST - STREET LANDSCAPES</b>													-	
<b>TOTAL PROJECT COST</b>													-	