

Project Title:  
Document Title:

Sixty Sticks Project  
Electrical Estimation

Date of Submission: 2/11/2025

SR No	Description of Item	Unit	Qty	Material cost (\$)	Unit Labor Hours	Total Labor Hours	Labor Rate (\$)	Total Material cost (\$)	Total Labor cost (\$)	Overhead Cost (30% on Material)	Total Cost
<b>Item A</b>											
<b>Supply and Installation of Light Fixtures</b>											
A.1	Light Fixture - D1	EA	564.00	\$ -	0.50	282.00	\$ 120.00	\$ -	\$ 33,840.00	\$ -	\$ 33,840.00
A.2	Light Fixture - D2	EA	14.00	\$ -	0.50	7.00	\$ 120.00	\$ -	\$ 840.00	\$ -	\$ 840.00
A.3	Light Fixture - D3	EA	6.00	\$ -	0.50	3.00	\$ 120.00	\$ -	\$ 360.00	\$ -	\$ 360.00
A.4	Light Fixture - EM1	EA	12.00	\$ -	0.75	9.00	\$ 120.00	\$ -	\$ 1,080.00	\$ -	\$ 1,080.00
A.5	Light Fixture - EM2	EA	4.00	\$ -	0.75	3.00	\$ 120.00	\$ -	\$ 360.00	\$ -	\$ 360.00
A.6	Light Fixture - EX1	EA	11.00	\$ -	0.75	8.25	\$ 120.00	\$ -	\$ 990.00	\$ -	\$ 990.00
A.7	Light Fixture - EX2 (Directional)	EA	1.00	\$ -	0.75	0.75	\$ 120.00	\$ -	\$ 90.00	\$ -	\$ 90.00
A.8	Light Fixture - EX2	EA	6.00	\$ -	0.75	4.50	\$ 120.00	\$ -	\$ 540.00	\$ -	\$ 540.00
A.9	Light Fixture - F1	EA	13.00	\$ -	0.50	6.50	\$ 120.00	\$ -	\$ 780.00	\$ -	\$ 780.00
A.10	Light Fixture - F1 24HR	EA	3.00	\$ -	1.00	3.00	\$ 120.00	\$ -	\$ 360.00	\$ -	\$ 360.00
A.11	Light Fixture - F1/M	EA	1.00	\$ -	0.60	0.60	\$ 120.00	\$ -	\$ 72.00	\$ -	\$ 72.00
A.12	Light Fixture - F1E	EA	15.00	\$ -	0.60	9.00	\$ 120.00	\$ -	\$ 1,080.00	\$ -	\$ 1,080.00
A.13	Light Fixture - F1E/M	EA	18.00	\$ -	0.75	13.50	\$ 120.00	\$ -	\$ 1,620.00	\$ -	\$ 1,620.00
A.14	Light Fixture - L2 (length 280m)	EA	132.00	\$ -	1.25	165.00	\$ 120.00	\$ -	\$ 19,800.00	\$ -	\$ 19,800.00
A.15	Light Fixture - P1	EA	18.00	\$ -	2.00	36.00	\$ 120.00	\$ -	\$ 4,320.00	\$ -	\$ 4,320.00
A.16	Light Fixture - P1	EA	6.00	\$ -	1.00	6.00	\$ 120.00	\$ -	\$ 720.00	\$ -	\$ 720.00
A.17	Light Fixture - S1	EA	60.00	\$ -	0.80	48.00	\$ 120.00	\$ -	\$ 5,760.00	\$ -	\$ 5,760.00
A.18	Light Fixture - S2	EA	13.00	\$ -	0.80	10.40	\$ 120.00	\$ -	\$ 1,248.00	\$ -	\$ 1,248.00
A.19	Light Fixture - W1	EA	34.00	\$ -	0.50	17.00	\$ 120.00	\$ -	\$ 2,040.00	\$ -	\$ 2,040.00
A.20	Light Fixture - W2	EA	18.00	\$ -	0.50	9.00	\$ 120.00	\$ -	\$ 1,080.00	\$ -	\$ 1,080.00
A.21	Light Fixture - W3	EA	12.00	\$ -	0.50	6.00	\$ 120.00	\$ -	\$ 720.00	\$ -	\$ 720.00
A.22	Light Fixture - W4E	EA	5.00	\$ -	0.60	3.00	\$ 120.00	\$ -	\$ 360.00	\$ -	\$ 360.00
A.23	Light Fixture - G1	EA	10.00	\$ -	0.80	8.00	\$ 120.00	\$ -	\$ 960.00	\$ -	\$ 960.00
A.24	Track mounted light w/ track run - D4	EA	48.00	\$ -	0.40	19.20	\$ 120.00	\$ -	\$ 2,304.00	\$ -	\$ 2,304.00
A.25	Motion Sensor/Photo Voltic Sensor	EA	15.00	\$ -	0.50	7.50	\$ 120.00	\$ -	\$ 900.00	\$ -	\$ 900.00
A.26	Ceiling Fan	EA	37.00	\$ -	1.50	55.50	\$ 120.00	\$ -	\$ 6,660.00	\$ -	\$ 6,660.00
A.27	Fan Regulator	EA	31.00	\$ -	0.50	15.50	\$ 120.00	\$ -	\$ 1,860.00	\$ -	\$ 1,860.00
A.28	1 gang 1 way switch	EA	239.00	\$ -	0.50	119.50	\$ 120.00	\$ -	\$ 14,340.00	\$ -	\$ 14,340.00
A.29	1 gang 1 way switch Dimmer	EA	66.00	\$ -	0.60	39.60	\$ 120.00	\$ -	\$ 4,752.00	\$ -	\$ 4,752.00
A.30	1 gang 2 way switch	EA	50.00	\$ -	0.50	25.00	\$ 120.00	\$ -	\$ 3,000.00	\$ -	\$ 3,000.00
<b>Total Supply and Installation of Light Fixtures Cost</b>											<b>\$ 117,636.00</b>
<b>Item B</b>											
<b>Supply &amp; Installation of Power Outlets</b>											
B.1	Single 10A GPO	EA	15.00	\$ 8.47	0.50	7.50	\$ 120.00	\$ 127.05	\$ 900.00	\$ 38.12	\$ 1,065.17
B.2	Double 10A GPO	EA	552.00	\$ 7.69	0.75	414.00	\$ 120.00	\$ 4,248.88	\$ 49,680.00	\$ 1,273.46	\$ 55,198.34
B.3	Single Phase 32A Isolator	EA	12.00	\$ 40.92	1.00	12.00	\$ 120.00	\$ 491.04	\$ 1,440.00	\$ 147.31	\$ 2,078.35
B.4	Single Phase 20A Isolator	EA	89.00	\$ 28.82	1.00	89.00	\$ 120.00	\$ 2,564.98	\$ 10,680.00	\$ 769.49	\$ 14,014.47
B.5	Three phase 30A Isolator	EA	1.00	\$ 37.35	1.20	1.20	\$ 120.00	\$ 27.35	\$ 144.00	\$ 11.21	\$ 192.56
B.6	Three phase 40A Isolator	EA	36.00	\$ 37.35	1.50	54.00	\$ 120.00	\$ 1,344.60	\$ 6,480.00	\$ 403.38	\$ 8,227.98
<b>Total Supply &amp; Installation of Power Outlets Cost</b>											<b>\$ 80,776.87</b>
<b>Item C</b>											
<b>Supply &amp; Installation of Point Wiring</b>											
C.1	2C 4mm <sup>2</sup> + 2.5mm <sup>2</sup> E (Small Power)	M	5567.43	\$ 6.66	0.03	139.19	\$ 120.00	\$ 37,079.05	\$ 16,702.28	\$ 11,123.72	\$ 64,905.05
C.2	3C 2.5mm <sup>2</sup> + 2.5mm <sup>2</sup> E (Emergency Lighting)	M	337.21	\$ 4.72	0.02	6.74	\$ 120.00	\$ 1,591.62	\$ 809.30	\$ 477.49	\$ 2,878.40
C.3	2C 2.5mm <sup>2</sup> + 2.5mm <sup>2</sup> E (Lighting)	M	4316.89	\$ 4.70	0.02	86.34	\$ 120.00	\$ 20,289.36	\$ 10,360.53	\$ 6,086.81	\$ 36,736.70
C.4	4C 25mm <sup>2</sup> + E (EDB Power) in 100mm ELC Cable Tray	M	244.63	\$ 58.83	0.07	16.31	\$ 120.00	\$ 14,391.52	\$ 1,957.03	\$ 4,317.46	\$ 20,666.01
C.5	4C 10mm + E	M	1248.28	\$ 21.53	0.05	62.41	\$ 120.00	\$ 26,875.51	\$ 7,489.69	\$ 8,062.65	\$ 42,427.86
C.6	4C 16mm + E (Equipment Power)	M	67.62	\$ 32.34	0.05	3.38	\$ 120.00	\$ 2,186.83	\$ 405.72	\$ 656.05	\$ 3,248.60
C.7	2C 10mm + E	M	728.14	\$ 12.15	0.03	24.27	\$ 120.00	\$ 8,846.94	\$ 2,912.57	\$ 2,654.08	\$ 14,413.60
C.8	Point Wiring cable Hanging Accessories - Hooks & Clips	ITEM	1.00	\$ 8,344.56	33.86	33.86	\$ 120.00	\$ 8,344.56	\$ 4,063.71	\$ 2,503.37	\$ 14,911.64
C.9	(NBN) Cable Tray - 300mm Electrical	M	94.88	\$ 14.44	0.20	18.98	\$ 120.00	\$ 1,369.80	\$ 2,277.07	\$ 410.94	\$ 4,057.81
C.10	(NBN) Cable Tray - 150 mm Comms	M	94.88	\$ 7.70	0.10	9.49	\$ 120.00	\$ 730.56	\$ 1,138.54	\$ 219.17	\$ 2,088.26
C.11	100/HO/LV Conduit Underground	M	37.83	\$ 11.55	0.20	7.57	\$ 120.00	\$ 436.95	\$ 907.96	\$ 131.09	\$ 1,476.00
C.12	50/HO/COMMS Conduit Underground	M	37.29	\$ 4.68	0.20	7.46	\$ 120.00	\$ 174.31	\$ 894.85	\$ 52.29	\$ 1,121.45
<b>Total Point Wiring Cost</b>											<b>\$ 208,931.39</b>
<b>Item D</b>											
<b>ELV (Data &amp; Security)</b>											
D.1	Single Data Outlet	EA	42.00	\$ 13.09	0.50	21.00	\$ 120.00	\$ 549.78	\$ 2,520.00	\$ 164.93	\$ 3,234.71
D.2	Double Data Outlet	EA	18.00	\$ 23.98	0.75	13.50	\$ 120.00	\$ 431.64	\$ 1,620.00	\$ 129.49	\$ 2,181.13
D.3	Card Reader	EA	3.00	\$ 320.00	0.75	2.25	\$ 120.00	\$ 960.00	\$ 270.00	\$ 288.00	\$ 1,518.00
D.4	Electric Strike	EA	2.00	\$ 187.00	0.60	1.20	\$ 120.00	\$ 374.00	\$ 144.00	\$ 112.20	\$ 630.20
D.5	Intercom Panel	EA	13.00	\$ 355.99	1.50	19.50	\$ 120.00	\$ 4,627.87	\$ 2,340.00	\$ 1,388.36	\$ 8,356.23
D.6	Tv Outlet	EA	30.00	\$ 14.59	0.50	15.00	\$ 120.00	\$ 437.70	\$ 1,800.00	\$ 131.31	\$ 2,369.01
D.9	CAT6 Wire	M	2487.36	\$ 2.69	0.01	24.88	\$ 120.00	\$ 6,691.52	\$ 2,985.07	\$ 2,007.46	\$ 11,684.05
D.10	COAX Wire	M	754.80	\$ 2.47	0.01	7.55	\$ 120.00	\$ 1,864.36	\$ 905.76	\$ 559.31	\$ 3,329.44
<b>Total ELV System Cost</b>											<b>\$ 33,302.77</b>
<b>Item E</b>											
<b>Electrical &amp; ELV Panels</b>											
E.1	EDB	EA	12.00		2.50	30.00	\$ 120.00	\$ -	\$ 3,600.00	\$ -	\$ 3,600.00
E.2	Energex Pillar	EA	1.00		4.00	4.00	\$ 120.00	\$ -	\$ 480.00	\$ -	\$ 480.00
E.3	MSB/DB-C/DB-EV	EA	1.00		12.00	12.00	\$ 120.00	\$ -	\$ 1,440.00	\$ -	\$ 1,440.00
E.4	Network Rack	EA	13.00		4.00	52.00	\$ 120.00	\$ -	\$ 6,240.00	\$ -	\$ 6,240.00
E.5	Security Panel	EA	1.00		3.00	3.00	\$ 120.00	\$ -	\$ 360.00	\$ -	\$ 360.00
E.6	PCD	EA	1.00		2.00	2.00	\$ 120.00	\$ -	\$ 240.00	\$ -	\$ 240.00
<b>Total Electrical &amp; ELV Panels Cost</b>											<b>\$ 12,360.00</b>
<b>Item D</b>											
<b>Project Management &amp; Handing over</b>											
D.1	Final Testing & Inspection of the complete electrical system	Item	1.00	\$ 3,750.00		0.00	\$ 120.00	\$ 3,750.00	\$ -	\$ 1,125.00	\$ 4,875.00
D.2	Miscellaneous Cost (Provision for any other Costs such as Machinery / Tools)	Item	1.00	\$ 1,000.00		0.00	\$ 120.00	\$ 1,000.00	\$ -	\$ 300.00	\$ 1,300.00
<b>Total Testing &amp; Inspection Cost</b>											<b>\$ 6,175.00</b>
<b>TOTAL MATERIAL COST</b>											<b>\$ 166,995.19</b>
<b>TOTAL LABOR COST</b>											<b>\$ 261,824.08</b>
<b>TOTAL LABOR HOURS</b>											<b>2181.87</b>
<b>OVERHEAD COST (30%)</b>											<b>\$ 45,544.14</b>
<b>PROJECT MANAGEMENT COST (5%)</b>											<b>\$ 21,440.96</b>
<b>TOTAL COST PRIOR TAX</b>											<b>\$ 497,986.24</b>
<b>TOTAL BID</b>											<b>\$ 497,986.24</b>

SCOPE OF ESTIMATE:

I SUPPLY & INSTALLATION  
1 Electrical Point Wiring  
2 Power outlets  
3 Data & Security Systems

II NOTES  
4 Fire Alarm systems not included in the scope

III LABOR RATE ESTIMATE  
ELECTRICIAN BASE WAGE \$ 120.00