

Project Title: BBC Mckenzie wing & School Building Works Project  
 Document Title: Electrical Estimation

Date of Submission: 3/22/2024

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 Supply and Installation of Light Fixtures</b>											
A.1	LED Ceiling Recessed Emergency light fitting	EA	8.00	\$ -	0.50	4.00	\$ 120.00	\$ -	\$ 480.00	\$ -	\$480.00
A.2	LED Ceiling Surface Mounted Emergency light fitting	EA	8.00	\$ -	0.75	6.00	\$ 120.00	\$ -	\$ 720.00	\$ -	\$720.00
A.3	LED Continuous Strip Lighting	EA	9.00	\$ -	1.00	9.00	\$ 120.00	\$ -	\$ 1,080.00	\$ -	\$1,080.00
A.4	LED Downlight	EA	7.00	\$ -	0.25	1.75	\$ 120.00	\$ -	\$ 210.00	\$ -	\$210.00
A.5	LED Downlight D2	EA	3.00	\$ -	0.25	0.75	\$ 120.00	\$ -	\$ 90.00	\$ -	\$90.00
A.6	LED Duffused Batten	EA	9.00	\$ -	0.80	7.20	\$ 120.00	\$ -	\$ 864.00	\$ -	\$864.00
A.7	LED Emergency Exit Sign	EA	7.00	\$ -	0.40	2.80	\$ 120.00	\$ -	\$ 336.00	\$ -	\$336.00
A.8	LED Light	EA	3.00	\$ -	0.40	1.20	\$ 120.00	\$ -	\$ 144.00	\$ -	\$144.00
A.9	ON/OFF Lighting Switch	EA	7.00	\$ -	0.60	4.20	\$ 120.00	\$ -	\$ 504.00	\$ -	\$504.00
A.10	Pendant Suspended Light	EA	3.00	\$ -	2.50	7.50	\$ 120.00	\$ -	\$ 900.00	\$ -	\$900.00
A.11	Rectangular Light	EA	9.00	\$ -	1.25	11.25	\$ 120.00	\$ -	\$ 1,350.00	\$ -	\$1,350.00
<b>Total Supply and Installation of Light Fixtures Cost</b>											<b>\$6,678.00</b>
<b>Item B Supply &amp; Installation of Power Outlets</b>											
B.1	10A Double GPO	EA	61.00	\$ 17.11	1.50	91.50	\$ 120.00	\$ 1,043.71	\$ 10,980.00	\$ 313.11	\$12,336.82
B.2	Single Captive GPO	EA	2.00	\$ 65.94	2.00	4.00	\$ 120.00	\$ 131.88	\$ 480.00	\$ 39.56	\$651.44
B.3	10A Single GPO	EA	7.00	\$ -	8.47	1.00	\$ 120.00	\$ 59.29	\$ 840.00	\$ 17.79	\$917.08
<b>Total Supply &amp; Installation of Power Outlets Cost</b>											<b>\$13,905.34</b>
<b>Item C Supply &amp; Installation of Point Wiring</b>											
C.1	2x4mm <sup>2</sup> + 2.5mm <sup>2</sup> Earth Cable (Power)	M	668.71	\$ 6.05	0.05	33.44	\$ 120.00	\$ 4,045.72	\$ 4,012.28	\$ 1,213.72	\$9,271.71
C.2	2x2.5mm <sup>2</sup> + 2.5mm <sup>2</sup> Earth Cable (Lighting)	M	310.91	\$ 3.13	0.05	15.55	\$ 120.00	\$ 972.17	\$ 1,865.43	\$ 291.65	\$3,129.23
C.3	Catenary Wire - 4mm Stainless Steel w/accessories (buckle hook, screws, anchors, bolts, & etc.)	M	332.86	\$ 3.47	0.04	13.31	\$ 120.00	\$ 1,154.27	\$ 1,597.73	\$ 346.28	\$3,098.29
C.4	32mm heavy duty PVC Conduit	M	21.71	\$ 2.48	0.06	1.36	\$ 120.00	\$ 53.85	\$ 162.86	\$ 16.16	\$232.86
C.5	32mm heavy duty PVC Conduit Bends	M	3.00	\$ 3.00	0.04	0.12	\$ 120.00	\$ 9.00	\$ 14.40	\$ 2.70	\$26.10
<b>Total Point Wiring Cost</b>											<b>\$15,758.21</b>
<b>Item D Project Management &amp; Handing over</b>											
D.1	Final Testing & Inspection of the complete electrical system	Item	1.00	\$ 1,000.00			0.00	\$ 1,000.00	\$ -	\$ 300.00	\$1,300.00
D.2	[Provision for any other Costs such as Machinery / Tools]	Item	1.00				0.00	\$ 120.00	\$ -	\$ -	\$0.00
<b>Total Testing &amp; Inspection Cost</b>											<b>\$1,300.00</b>
<b>TOTAL MATERIAL COST</b>											\$ 9,316.88
<b>TOTAL LABOR COST</b>											\$ 26,630.70
<b>TOTAL LABOR HOURS</b>											221.92
<b>OVERHEAD COST (30%)</b>											\$ 2,540.97
<b>PROJECT MANAGEMENT COST (5%)</b>											\$ 1,797.38
<b>TOTAL COST PRIOR TAX</b>											\$ 40,507.84
<b>TOTAL BID</b>											<b>\$ 40,507.84</b>

Productivity/ Remarks

Cabling Productivity (Power) = 20m/hour

Cabling Productivity (Lighting) = 25m/hour

Catenary Wire Productivity = 25m/hour with excavation

Conduiting Productivity = 16m/hour with excavation

SCOPE OF ESTIMATE:

- I SUPPLY & INSTALLATION
  - 1 Electrical Point Wiring
  - 2 Power outlets
- II NOTES
  - 3 Fire Alarm systems not included in the scope
  - 4 ELV systems not included
- III LABOR RATE ESTIMATE
  - ELECTRICIAN BASE WAGE \$ 120.00

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