

SR No	Description of Item	Unit	Qty	Material cost (\$)	Unit Labor Hours	Total Labor Hours	Labor Rate (\$)	Total Material cost (\$)	Total Labor cost (\$)	Total Cost
Electrical Panels										
1	Panel Name -MSB, Bus Bar-250A, PSCC-100A @ 1 sec;	EA	1.00	\$0	12.00	12.00	\$120	\$0.00	\$ 1,440.00	\$1,440.00
2	Tarif meter	EA	1.00							
2	Check Meter	EA	1.00							
3	60A/10DA 1P MCCB	EA	31.00							
4	80A/10DA 3ph MCCB	EA	1.00							
5	250A/25DA 3P MCCB	EA	1.00							
6	Panel Name -D8C	EA	1.00	\$0	8.00	8.00	\$120	\$0.00	\$ 960.00	\$960.00
7	10A 1PH MCB	EA	3.00							
8	16A 1PH MCB	EA	11.00							
9	20A 1ph MCB	EA	2.00							
10	32A 1ph MCB	EA	1.00							
12	63A/30A 1ph RCCB	EA	3.00							
13	63A Load Breaker Switch	EA	1.00							
14	Panel Name -D8	EA	29.00	\$0	2.50	72.50	\$120	\$0.00	\$ 8,700.00	\$8,700.00
15	10A 1PH MCB	EA	87.00							
16	16A 1PH MCB	EA	319.00							
17	20A 1ph MCB	EA	58.00							
18	32A 1ph MCB	EA	29.00							
19	63A/30A 1ph RCCB	EA	87.00							
20	63A Load Breaker Switch	EA	29.00							
Feeder Cable										
21	1 x 4C 16mm ² Cu PVC/NLPE (6mm ² Earth) Fire Rated Cable + 10mm ² Earth	m	16.77	\$0	0.25	4.19	\$120	\$0.00	\$ 503.05	\$503.05
22	4 x 1C 240mm ² ALXLPE/PVC	m	18.28	\$0	0.50	9.15	\$120	\$0.00	\$ 1,097.56	\$1,097.56
23	1 x 2C 4E 16mm ² Cu XLPE/PVC (6mm ² Earth)	m	955.30	\$0	0.11	127.37	\$120	\$0.00	\$ 15,284.88	\$15,284.88
24	1 x 2C 4E 25mm ² Cu XLPE/PVC (6mm ² Earth)	m	106.40	\$0	0.11	14.19	\$120	\$0.00	\$ 1,702.44	\$1,702.44
Cable tray										
25	600mm cable tray vertical with fixing accessories	m	15.24	\$0	0.40	6.10	\$120	\$0.00	\$ 731.71	\$731.71
26	600mm cable tray horizontal with fixing accessories	m	7.83	\$0	0.25	1.98	\$120	\$0.00	\$ 237.80	\$237.80
27	100mm cable tray horizontal with fixing accessories	m	120.43	\$0	0.17	20.07	\$120	\$0.00	\$ 2,408.54	\$2,408.54
Light Fixtures-New										
29	Recessed downlight - D1	EA	65.00	\$0	0.40	26.00	\$120	\$0.00	\$ 3,120.00	\$3,120.00
30	Recessed downlight - D2	EA	317.00	\$0	0.40	126.80	\$120	\$0.00	\$ 15,216.00	\$15,216.00
31	Recessed downlight - D3	EA	52.00	\$0	0.40	12.80	\$120	\$0.00	\$ 1,536.00	\$1,536.00
32	Button luminaire - F1	EA	15.00	\$0	1.00	15.00	\$120	\$0.00	\$ 1,800.00	\$1,800.00
33	Wall mounted luminaire - W2	EA	11.00	\$0	0.60	6.60	\$120	\$0.00	\$ 792.00	\$792.00
34	Wall mounted luminaire - W5	EA	3.00	\$0	0.60	1.80	\$120	\$0.00	\$ 216.00	\$216.00
35	Wall mounted luminaire - W5	EA	2.00	\$0	0.60	1.20	\$120	\$0.00	\$ 144.00	\$144.00
36	Recessed luminaire - B1	EA	13.00	\$0	3.00	39.00	\$120	\$0.00	\$ 4,680.00	\$4,680.00
37	Pole mounted road luminaire - P1	EA	2.00	\$0	4.00	8.00	\$120	\$0.00	\$ 960.00	\$960.00
38	Surface mounted luminaire - D3	EA	2.00	\$0	0.60	1.20	\$120	\$0.00	\$ 144.00	\$144.00
Lighting Control Panel										
39	Lighting Control Panel	Item	1.00	\$0	6.00	6.00	\$120	\$0.00	\$ 720.00	\$720.00
40	Ceiling mounted 360° PIR motion sensor	EA	25.00	\$0	0.40	10.00	\$120	\$0.00	\$ 1,200.00	\$1,200.00
Switching										
41	Allow for switching	Item	1.00	\$0	0.00	40.00	\$120	\$0.00	\$ 4,800.00	\$4,800.00
POWER UNITS										
42	Double switched 10A socket	EA	408.00	\$0	0.30	122.40	\$120	\$0.00	\$ 14,688.00	\$14,688.00
43	Single switched 10A socket outlet	EA	29.00	\$0	0.50	14.50	\$120	\$0.00	\$ 1,740.00	\$1,740.00
44	EV Charger	EA	2.00	\$0	2.50	5.00	\$120	\$0.00	\$ 600.00	\$600.00
45	Single way light switch	EA	222.00	\$0	0.40	88.80	\$120	\$0.00	\$ 10,656.00	\$10,656.00
46	Two way light switch	EA	145.00	\$0	0.50	72.50	\$120	\$0.00	\$ 8,700.00	\$8,700.00
Emergency Fixtures										
60	Recessed emergency luminaire - EM1	EA	21.00	\$0	0.50	10.50	\$120	\$0.00	\$ 1,260.00	\$1,260.00
61	Surface mounted emergency - EM2	EA	10.00	\$0	0.75	7.50	\$120	\$0.00	\$ 900.00	\$900.00
62	Surface mounted exit sign - EX1	EA	13.00	\$0	0.60	7.80	\$120	\$0.00	\$ 936.00	\$936.00
Point Wiring (General Lighting)										
63	2x2.5mm ²	m	3481.65	\$0	0.03	116.05	\$120	\$0.00	\$ 13,926.59	\$13,926.59
75	3x2.5mm ²	m	190.34	\$0	0.04	7.61	\$120	\$0.00	\$ 913.64	\$913.64
64	2.5mm ² Earth	m	3501.17	\$0	0.03	87.53	\$120	\$0.00	\$ 10,503.52	\$10,503.52
65	25mm Conduit	m	3501.17	\$0	0.05	175.06	\$120	\$0.00	\$ 21,007.04	\$21,007.04
66	25mm Connectors	EA	667.59	\$0	0.03	22.25	\$120	\$0.00	\$ 2,670.36	\$2,670.36
67	25mm Coupling	EA	431.97	\$0	0.05	21.60	\$120	\$0.00	\$ 2,591.82	\$2,591.82
68	25mm 1-H strap - STEEL	EA	667.59	\$0	0.03	22.25	\$120	\$0.00	\$ 2,670.36	\$2,670.36
Point Wiring (Power)										
69	2x4mm ²	m	5569.48	\$0	0.04	222.78	\$120	\$0.00	\$ 26,733.51	\$26,733.51
71	2.5mm ² Earth	m	5569.48	\$0	0.03	139.24	\$120	\$0.00	\$ 16,708.45	\$16,708.45
72	25mm Conduit	m	5569.48	\$0	0.05	278.47	\$120	\$0.00	\$ 33,416.89	\$33,416.89
73	25mm Connectors	EA	868.56	\$0	0.03	28.95	\$120	\$0.00	\$ 3,474.24	\$3,474.24
74	25mm Coupling	EA	560.18	\$0	0.05	28.01	\$120	\$0.00	\$ 3,361.05	\$3,361.05
75	25mm 1-H strap - STEEL	EA	868.56	\$0	0.03	28.95	\$120	\$0.00	\$ 3,474.24	\$3,474.24
Point Wiring (EV Charging - 50A, 3PH)										
76	3x10mm ² (EV Charging)	m	17.60	\$0	0.04	0.70	\$120	\$0.00	\$ 84.48	\$84.48
77	4mm ² Earth	m	17.60	\$0	0.03	0.44	\$120	\$0.00	\$ 52.80	\$52.80
78	40mm Conduit	m	17.60	\$0	0.05	0.88	\$120	\$0.00	\$ 105.60	\$105.60
79	40mm Connectors	EA	5.00	\$0	0.03	0.17	\$120	\$0.00	\$ 20.00	\$20.00
80	40mm Coupling	EA	6.00	\$0	0.05	0.30	\$120	\$0.00	\$ 36.00	\$36.00
81	40mm 1-H strap - STEEL	EA	5.00	\$0	0.03	0.17	\$120	\$0.00	\$ 20.00	\$20.00
Project Management & Miscellaneous Cost										
76	Testing & Commissioning of the electrical Panels	Item	1.00	\$0	124.00	124.00	\$120	\$0.00	\$ 14,880.00	\$14,880.00
77	Allow for Other Miscellaneous Cost	Item	1.00	\$0	16.00	16.00	\$120	\$0.00	\$ 1,920.00	\$1,920.00
TOTAL MATERIAL COST									\$	-
TOTAL LABOR COST									\$	114,100.98
TOTAL LABOR BIDDERS									\$	288.17
TOTAL COST									\$	114,100.98
TAX									8.88%	\$ 10,132.36
OVERHEADS & PROFIT (75% on material cost and 25% on labor cost)									\$	28,575.69
TOTAL BID									\$	152,789.12

- SCOPE OF ESTIMATE:
- A SUPPLY & INSTALLATION
 - 1 Electrical Point Wiring
 - 2 Power outlets
 - 3 Light Fixtures
 - 4 Feeder cables
 - 5 Cable Tray
 - 6 Electrical Panels
 - B NOTES
 - Fire Alarm systems not included in the scope
 - ELV systems not included

Project Title: Kainga Ora Roscommon Road

Document Title: Electrical take off

Date of Submission: 3/25/2024

SR No	Description of Item	DESCRIPTION	Unit	GF	1st	2nd	3rd	4th	Linear Qty	Vertical Qty	Wastage (5%)	Total Qty	Total in M
Electrical Panels													
1	Panel Name -MSB, Bus Bar:250A, PSCC:10KA @ 1 sec;		EA	1					1			1	EA 1
2	Tarrif meter		EA	1					1			1	EA 1
2	Check Meter		EA	1					1			1	EA 1
3	60A/100A 1P MCCB		EA	31					31			31	EA 31
4	80A/100A 3ph MCCB		EA	1					1			1	EA 1
5	250A/250A 3P MCCB		EA	1					1			1	EA 1
6	Panel Name -DBC		EA	1					1			1	EA 1
7	10A 1Ph MCB		EA	3					3			3	EA 3
8	16A 1Ph MCB		EA	11					11			11	EA 11
9	20A 1ph MCB		EA	2					2			2	EA 2
10	32A 1ph MCB		EA	1					1			1	EA 1
12	63A/30A 1ph RCCB		EA	3					3			3	EA 3
13	63A Load Breaker Switch		EA	1					1			1	EA 1
14	Panel Name -DB		EA	29					29			29	EA 29
15	10A 1Ph MCB		EA	87					87			87	EA 87
16	16A 1Ph MCB		EA	319					319			319	EA 319
17	20A 1ph MCB		EA	58					58			58	EA 58
18	32A 1ph MCB		EA	29					29			29	EA 29
19	63A/30A 1ph RCCB		EA	87					87			87	EA 87
20	63A Load Breaker Switch		EA	29					29			29	EA 29
Feeder Cable													
21	1 x 4C 16mm ² Cu PVC/XLPE (6mm ² Earth) Fire Rated Cable + 10mm ² Earth		m	14					14	3		17	m 17
22	4 x 1C 240mm ² Al XLPE/PVC		m	15					15	3		18	m 18
23	1 x 2C +E 16mm ² Cu XLPE/PVC (6mm ² Earth)		m	312	114	91	102	109	728	227		955	m 955
24	1 x 2C +E 25mm ² Cu XLPE/PVC (6mm ² Earth)		m	29		24	12	5	70	37		106	m 106
Cable tray													
25	600mm cable tray vertical with fixing accessories		m	15					15			15	m 15
26	600mm cable tray horizontal with fixing accessories		m	8					8			8	m 8
27	300mm cable tray horizontal with fixing accessories		m	24	24	24	24	24	120			120	m 120
Light Fittings-New													
29	Recessed downlight - D1		EA	65					65			65	EA 65
30	Recessed downlight - D2		EA	317					317			317	EA 317
31	Recessed downlight - D3		EA	32					32			32	EA 32
32	Batten luminaire - F1		EA	15					15			15	EA 15
33	Wall mounted luminaire - W2		EA	11					11			11	EA 11
34	Wall mounted luminaire - W1		EA	3					3			3	EA 3
35	Wall mounted luminaire - W3		EA	2					2			2	EA 2
36	Bollard Luminaire - B1		EA	13					13			13	EA 13
37	Pole mounted road luminaire - P1		EA	2					2			2	EA 2
38	Surface mounted luminaire - D3		EA	2					2			2	EA 2
Lighting Control Panel													
39	Lighting Control Panel		Item						0			0	Item 0
40	Ceiling mounted 360° PIR motion sensor		EA	25					25			25	EA 25

Earthing													
41	Allow for earthing											0	
		Item										Item	
												0	
POWER UNITS													
42	Double switched 10A socket	EA	458						458		458	EA	458
43	Single switched 10A socket outlet	EA	29						29		29	EA	29
44	EV Charger	EA	2						2		2	EA	2
45	Auto door	EA	5									EA	5
46	Outdoor unit	EA	29									EA	29
47	Heater	EA	58									EA	58
48	Fridge	EA	30									EA	30
49	Hot water cylinder	EA	29									EA	29
50	Microwave	EA	30									EA	30
51	Range	EA	30									EA	30
52	Rangehood	EA	30									EA	30
53	Boiling water unit	EA	1									EA	1
54	Fire alarm panel	EA	1									EA	1
55	Washing Machine	EA	29									EA	29
56	Clothes Dryer	EA	29						29		29	EA	29
57	Pump	EA	1						1		1	EA	1
58	Single way light switch	EA	222						222		222	EA	222
59	Two way light Switch	EA	145						145		145	EA	145
												EA	0
Emergency Fittings													
60	Recessed emergency luminaire - EM1	EA	21						21		21	EA	21
61	Surface mounted emergency - EM2	EA	10						10		10	EA	10
62	Surface mounted exit sign - EX1	EA	13						13		13	EA	13
Point Wiring (General Lighting)													
63	2x2.5mm2	m	656	378	378	378	378	2168	1148	166	3482	m	3482
64	2.5mm2 Earth	m	675	378	378	378	378	2187	1148	167	3501	m	3501
65	25mm Conduit	m	675	378	378	378	378	2187	1148	167	3501	m	3501
66	25mm Connectors	EA	178	100	100	100	100	578	58	32	668	EA	668
67	25mm Coupling	EA	222	38	38	38	38	374	37	21	432	EA	432
68	25mm 1-H strap - STEEL	EA	178	100	100	100	100	578	58	32	668	EA	668
Point Wiring (Power)													
69	2x4mm2	m	851	501	501	501	501	2854	2451	265	5569	m	5569
70	2.5mm2 Earth	m	851	501	501	501	501	2854	2451	265	5569	m	5569
71	25mm Conduit	m	851	501	501	501	501	2854	2451	265	5569	m	5569
72	25mm Connectors	EA	224	132	132	132	132	752	75	41	869	EA	869
73	25mm Coupling	EA	281	51	51	51	51	485	49	27	560	EA	560
74	25mm 1-H strap - STEEL	EA	224	132	132	132	132	752	75	41	869	EA	869