

II. ELECTRICAL WORKS

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	DIRECT COST	MARKUPS IN PERCENT		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	UNIT COST	TOTAL COST	REMARKS/ LOCATION SPECIFICATIONS
					OOM	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9 5x8	10 5x(5+8)	11 9+10	12 5+11	13 12x3	
	I.4.1.98 MDP SERVA with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.99 DP SERVA1 with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.100 DP SERVA2 with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.101 PP SERV 7A with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.102 PP SERV 8A with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.103 PP SERV 9A with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.104 PP SERV 10A with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.105 PP SERV 11A with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.106 PP SERV 12A with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.107 PP SERV 13A with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.108 PP SERV 14A with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.109 PP SERV 15A with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.110 PP SERV 16A with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.111 PP SERV 17A with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.112 PP SERV 18A with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.113 PP SERV 19A with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.114 PP SERV 20A with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.115 PP SERV 21A with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.116 PP SERV 22A with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.117 PP SERV 23A with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.118 PP SERV 24A with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.119 MDP SERVB with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.120 DP SERVB1 with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.121 DP SERVB2 with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.122 PP SERV 7B with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.123 PP SERV 8B with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.124 PP SERV 9B with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.125 PP SERV 10B with ground and neutral bus terminal	1.00	pc/ty										
	I.4.1.126 PP SERV 11B with ground and neutral bus terminal	1.00	pc/ty										

Location: 7th to 24th Floor.
AS PER DESIGNERS RECOMMENDATION

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					OOM	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9 5x8	10 5x(5+8)	11 9+10	12 5+11	13 12x3	
	I.4.1.127 PPSEV/ 12B with ground and neutral bus terminal	1.00	pcy										Location: 7th to 24th Floor. AS PER DESIGNERS RECOMMENDATION
	I.4.1.128 PPSEV/ 13B with ground and neutral bus terminal	1.00	pcy										
	I.4.1.129 PPSEV/ 14B with ground and neutral bus terminal	1.00	pcy										
	I.4.1.130 PPSEV/ 15B with ground and neutral bus terminal	1.00	pcy										
	I.4.1.131 PPSEV/ 16B with ground and neutral bus terminal	1.00	pcy										
	I.4.1.132 PPSEV/ 17B with ground and neutral bus terminal	1.00	pcy										
	I.4.1.133 PPSEV/ 18B with ground and neutral bus terminal	1.00	pcy										
	I.4.1.134 PPSEV/ 19B with ground and neutral bus terminal	1.00	pcy										
	I.4.1.135 PPSEV/ 20B with ground and neutral bus terminal	1.00	pcy										
	I.4.1.136 PPSEV/ 21B with ground and neutral bus terminal	1.00	pcy										
	I.4.1.137 PPSEV/ 22B with ground and neutral bus terminal	1.00	pcy										
	I.4.1.138 PPSEV/ 23B with ground and neutral bus terminal	1.00	pcy										
	I.4.1.139 PPSEV/ 24B with ground and neutral bus terminal	1.00	pcy										
	I.4.1.140 LPU 1-LPU13 (TYPICAL) with ground and neutral bus terminal	13.00	pcy										
	LIGHTING AND POWER SYSTEM												
	I.4.2 Boxes and Pull Boxes (including fittings and accessories)												
	I.4.2.1 Utility Box	5,261.00	pcy										Location: Where needed. AS PER DESIGNERS RECOMMENDATION
	I.4.2.2 Square Box	5,322.00	pcy										
	I.4.2.3 Pull Box (500mm x 400mm x 100mm) w/ cover	17.00	set										
	I.4.3 Wires and Cables												
	I.4.3.1 3.5mm ² THHN	224,192.00	m/s										Location: Where needed. AS PER DESIGNERS RECOMMENDATION
	I.4.3.2 3.5mm ² TW	112,096.00	m/s										
	II.5 WIRING DEVICES												
	I.5.1 Three Way Switch, -NEMA WD 1, heavy-duty, AC only general-use snap switch, -300v, AC/ 15 amperes, -Manufacturers or approve equal	32.00	pcy										Location: Where needed. AS PER DESIGNERS RECOMMENDATION
	I.5.2 GFCI Duplex Convenience Outlet, -NEMA WD 1, heavy-duty general use receptacle, -manufacturers or approved equal	5.00	pcy										
	II.6 PP1												
	Sump pump for Machine Room/Less Elevator (including Fittings, Supports and Hangers and Consumables) for basement elevator pit of Basement - 6/F												Location: Basement. AS PER DESIGNERS RECOMMENDATION
	I.6.1 1 SET 2-3.5mm ² THHN, STRANDED COPPER WIRE	147.00	m/s										

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					OOM	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9	10	11	12	13	
								5/8	5/(5*8)	9+10	5+11	12/3	
	I.6.2 1SET 1-3.5mm sq. TW STRANDED COPPER WIRE	73.50	m/s										Location: Basement, AS PER DESIGNERS RECOMMENDATION
	I.6.3 15mm ø IMC Pipe	73.50	ld										
	I.6.4 20 AT 1phase, 1 pole, MCCB, ABN101C, 20A, 1P, 25KA @ 230V	1.00	pc/s										
	I.6.5 GFCI Duplex Convenience Outlet, NEMA WD 1, heavy-duty general use receptacle, - manufacturers or approved equal	1.00	pc/s										
II.7	MDPB TO Exhaust Fan (PPERFD) (including Fittings, Supports and Hangers and Consumables) for additional exhaust the air fan (ACCU) by mechanical at roofdeck												Location: Ground Floor, AS PER DESIGNERS RECOMMENDATION
	I.7.1 1set (4-200mm sq. THHN) STRANDED COPPER WIRE	974.40	m/s										
	I.7.2 1set (1-22mm sq. TW) STRANDED COPPER WIRE	243.60	m/s										
	I.7.3 1set (80mm IMC pipe)	243.60	ld										
	I.7.4 250ATCB 3phase, 3P, MCCB, AB S203C, 250A, 3P, 37KA @ 400V	1.00	pc										
II.8	PP23ACCU PPERFD Panel AT ROOFDECK (including Fittings, Supports and Hangers and Consumables) Main: 1-MCCB, ABS403c, 250A, 3P, 50KA @ 400V Brs: 1-MCCB, AB S203C, 50A, 3P, 37KA @ 400V (AHU/FRESH AIR ROOFDECK @ 22KW) 3-MCCB, ABS100C, 40A, 3P, 37KA @ 400V (ACCU/FRESH AIR @ 20HP) 2-MCCB, ABS100C, 40A, 3P, 37KA @ 400V (ACCU/SERVER ROOM @ 20HP) 5-MCCB, ABS100 S, 20A, 3P, 37KA @ 400V (1- CR EXHAUSTFAN, 2- SMOKE EVACUATION, 2- EXHAUST FAN) ROOF DECK 1- SPACE, 100AF, 3P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 2200mmX 1600mmX 1000mm	1.00	pc/s										Location: Roof Deck, AS PER DESIGNERS RECOMMENDATION
	I.8.1 1set (4-14mm sq. THHN) STRANDED COPPER WIRE	168.00	m/s										
60A	I.8.2 1set (1-5.5mm sq. TW) STRANDED COPPER WIRE	42.00	m/s										
	I.8.3 1set (25mm IMC Pipe)	42.00	ld										
	I.8.4 1set (4-3.5mm sq. THHN) STRANDED COPPER WIRE	3,360.00	m/s										
5-20A	I.8.5 1set (1-3.5mm sq. TW) STRANDED COPPER WIRE	210.00	m/s										
	I.8.6 1set (15mm IMC Pipe)	210.00	ld										
	I.8.7 1SET (4-8.0mm sq. THHN) STRANDED COPPER WIRE	2,016.00	m/s										
3-40A	I.8.8 1SET (1-5.5 mm sq. TW) STRANDED COPPER WIRE	126.00	m/s										
	I.8.9 1SET (25mm IMC pipe)	126.00	ld										
	I.8.10 1SET (4-8.0mm sq. THHN) STRANDED COPPER WIRE	2,016.00	m/s										
2-40A	I.8.11 1SET (1-5.5 mm sq. TW) STRANDED COPPER WIRE	126.00	m/s										
	I.8.12 1SET (25mm ø IMC pipe)	126.00	ld										

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					COM	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9	10	11	12	13	
								5%	5%[5+9]	9+10	5+11	12x3	
II.9	PP11C = ACU SERVBU P with ground and neutral bus terminal (Including Fittings, Supports and Hangers and Consumables) unit should be included to FCU spare/space panel for server room aircon	1.00	assy										Location: 7th-24th Floor. AS PER DESIGNERS RECOMMENDATION
	I.9.1 17-20 AT 1phase, 1 pole, MCCB, ABN101C, 20A, 1P, 25KA @ 230V	17.00	pc										
	I.9.2 1 SET (4-8.0mm sq. THHN) STRANDED COPPER WIRE	714.00	lm/s										
	I.9.3 1 SET (1-5.5 mm sq. TW) STRANDED COPPER WIRE	178.50	lm/s										
	I.9.4 1 SET (25mmø M C pipe)	178.50	lgt										
II.10	at PPBP connection Panel PPBP (Including Fittings, Supports and Hangers and Consumables) additional pump for back-up at potable and non-potable at roof deck additional 2 booster pump from panel PPBP base on existing specs on panel #1. booster pump 1, 5HP, 2PHASE, 2POLE, 230V												Location: Roof Deck. AS PER DESIGNERS RECOMMENDATION
	I.10.1 80AT CB, 1P, MCCB, ABN101C, 80A, 1P, 25KA @ 240V	1.00	pc										
	I.10.2 1set (2-22mm sq. THHN)	105.00	lm/s										
	I.10.3 1set (1-8.0mm sq. TW)	52.50	lm/s										
	I.10.4 1set (32mmø RSC pipe)	52.50	lgt										
	#2 booster pump, 5HP, 2PHASE, 2POLE, 230V												
	80AT CB, 1P (WITH SPARE), MCCB, ABN101C, 80A, 1P, 25KA @ 240V												
	I.10.5 1set (2-22mm sq. THHN), STRANDED COPPER WIRE	105.00	lm/s										
	I.10.6 1set (1-8.0mm sq. TW), STRANDED COPPER WIRE	52.50	lm/s										
	I.10.7 1set (32mmø RSC pipe)	52.50	lgt										
II.11	LPELEV = Panel PPJT (Including Fittings, Supports and Hangers and Consumables) MAIN : 1-MCCB, ABN53C, 40A, 3P, 14KA @ 415V BR S: 10-MCCB, ABN101C, 20A, 1P, 25KA @ 230V 2- SPACE, 60AF, 1P NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 600mm X 550mm X 150mm	1.00	assy										Location: Basement. AS PER DESIGNERS RECOMMENDATION
	40 AT CB, 3P, 3ø, MCCB, ABN53C, 40A, 3P, 14KA @ 415V												
	I.11.1 1 SET (4-8.0mm sq. THHN), STRANDED COPPER WIRE	105.00	lm/s										
	I.11.2 1 SET (1-5.5 mm sq. TW), STRANDED COPPER WIRE	28.25	lm/s										
	I.11.3 1 SET (25mmø IM C pipe)	28.25	lgt										

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					OCM	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9	10	11	12	13	
								9 %	9 %	9-10	9-11	12x3	
II.12	LP2- Panel LPB (Including Fittings, Supports and Hangers and Consumables) MAIN: 1-MCCB, AB S103C, 30A, 3P, 37KA @ 415V BRS: 14-MCB, BKN-B, 20A, 1P, 10KA @ 230V 2-SPARE NEMA-1, SURFACE MOUNTED, GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 600mm X 400mm X 130mm	1.00	app										Location: Basement, AS PER DESIGNERS RECOMMENDATION
	30 ATCB, 3P, 3ø												
	I.12.1 1SET (4-5.5mm sq THHN)	105.00	lms										
	I.12.2 1SET (1-5.5 mm sq TVJ)	26.25	lms										
	I.12.3 1SET (20mm ø IMC pipe)	26.25	lgt										
II.13	PPB - PPB (Including Fittings, Supports and Hangers and Consumables) MAIN: 1- MCCB, ABN53C, 40A, 3P, 14KA @ 415V BRS: 14-MCB, BKN-B, 20A, 1P, 10KA @ 230V 2-SPARE NEMA-1, SURFACE MOUNTED, DI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 600mm X 400mm X 130mm	1.00	app										Location: Basement, AS PER DESIGNERS RECOMMENDATION
	40 ATCB, 3P, 3ø												
	I.13.1 1SET (4-8.0mm sq THHN)	105.00	lms										
	I.13.2 1SET (1-5.5 mm sq TVJ)	26.25	lms										
	I.13.3 1SET (25mm ø IMC pipe)	26.25	lgt										
II.14	DP2- DPB (Including Fittings, Supports and Hangers and Consumables) MAIN: 1- MCCB, ABN100C, 100A, 3P, 18KA @ 415V BRS: 1-MCCB, AB S103C, 30A, 3P, 37KA @ 415V 1-MCCB, ABN53C, 40A, 3P, 14KA @ 415V 1-MCCB, AB S203C, 60A, 3P, 37KA @ 400V 1-SPARE NEMA-1, SURFACE MOUNTED GI SHEET G#16, POWDER COATED FINISH WITH NEUTRAL, GROUNDING & TERMINAL LUGS DIMENSION: 700mm X 550mm X 150mm	1.00	app										Location: Basement, AS PER DESIGNERS RECOMMENDATION
	100 ATCB, 3P, 3ø	1.00											
	I.14.1 1SET (4-30mm sq THHN)	235.20	lms										
	I.14.2 1SET (1-8.0 mm sq TVJ)	58.80	lms										
	I.14.3 1SET (32mm ø IMC pipe)	58.80	lgt										
	I.14.4 1set (4-14mm sq THHN)	123.48	lms										
	I.14.5 1set (1-5.5mm sq TVJ)	123.48	lms										
	I.14.6 1set (25mm ø IMC Pipe)	123.48	lgt										
	I.14.7 Square Box	21.00	pos										

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					OCM	PROFIT	%	VALUE					
1	2	3	4	5	6	7	8	9	10	11	12	13	
								5%	5% (5-9)	9+10	5+11	12x3	
II.15	CR Office WATER HEATER WATER HEATER HEATER	WATER HEATER FOR OFFICE CR (Including Fittings, Supports and Hangers and Consumables) CR for 11F, 15F, 17F, 18F, 19F, 20F, 21F, 22F, 23F											
		20.00	pcs										AS PER DESIGNER'S RECOMMENDATION
	II.15.1 GFCI Duplex Convenience Outlet, - NEMA WD 1, heavy-duty general use receptacle, - manufacturers or approved equal	20.00	pcs										
	II.15.2 20-20AT CB, 1P	20.00	pcs										
	II.15.3 1 SET (2-3.5mm sq. THHN)	5,480.00	lms										
	II.15.4 1 SET (1-3.5 mm sq. TW)	2,730.00	lms										
	II.15.5 1 SET (20mm ø PVC pipe)	2,730.00	lgt										
	II.15.6 Utility Box	20.00	pcs										
	II.15.7 Square Box	520.00	pcs										
II.16	Electric Vehicle Charger	Hiionics Ce Certified 43kw/22kw AC Type 2 Charge Point, Charging Pile for Electric Vehicles											
	II.16.1 1-M CCB, AB 5103c, 100A, 3P, 37KA @ 415V	12.00	units										Location: Basement, 2/F - 6/F parking AS PER DESIGNER'S RECOMMENDATION
	II.16.2 1 SET (4-30mm sq. THHN)	6,552.00	lms										
	II.16.3 1 SET (1-8.0 mm sq. TW)	819.00	lms										
	II.16.4 1 SET (32mm ø PVC pipe)	819.00	lgt										
	II.16.5 Square Box	120.00	pcs										
	II.16.6 ECB 100AT, 3P NEMA 3R	12.00	units										
II.17	FUEL PUMP	II.17.1 2-20AM CB, 1P											
		2.00	units										Location: Ground Floor. AS PER DESIGNER'S RECOMMENDATION
	II.17.2 1 SET (2-3.5mm sq. THHN)	280.00	lms										
	II.17.4 1 SET (1-3.5 mm sq. TW)	130.00	lms										
	II.17.5 1 SET (20mm ø IMC pipe)	130.00	lms										

TOTAL

Note: Wires, Cables and Pipes will be based on existing as well as specs of the designer/contractor.
General Notes: Works should be undergo commissioning and testing after installation of equipments, materials and supply before take-over.
 Works should have documentation for reference before take-over.
 Works completion should be inspected by contractor and owner representative based on approved variation order.
 Specifications of New Essential Works unless stated should follow specifications of existing works.

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