Motor Control Panel

Typical Motor Control Panel 'MCP-##' in Tank Area
32A SP & N

32A MCB — 3 x 6.0 mm² XLPE/LSZH From DB-TNK at Ground Floor Level

20A RCBO	3 x 4.0mm² XLPE/LSZH	C	P/MCP##/01 - For Primary Pump
20A RCBO	3 x 4.0mm² XLPE/LSZH	C	P/MCP##/02 - For Secondary Pump
20A RCBO	3 x 4.0mm² XLPE/LSZH	C	P/MCP##/03 - For UV Filter
20A RCBO	3 x 4.0mm² XLPE/LSZH		P/MCP##/04 - For Twin Socket Outlet
20A RCBO	3 x 4.0mm² XLPE/LSZH	C	P/MCP##/05 - For Controller
20A RCBO	3 x 4.0mm² XLPE/LSZH	C	P/MCP##/06 - For Motorized Valves
20A RCBO	----------		Spare
20A RCBO	----------		Spare
			Blank

Input	Output
Preset Buttons	Primary Pump
Tank Water Temperature	Secondary Pump
(Settling Tank) Seawater Temperature Sensor	UV Filter
Ambient Temperature	Motorized Valve - Main Tank Drain
Thermal Accumulator Temperature	Motorized Valve - Inlet
	Motorized Valve - Heat Exchanger
	Motorized Valve - UV Filter
	Motorized Valve - Settling Tank

Main Tank Controller (Located in Office) — Control Cable

Distribution Board 'DB-TNK' at Ground Floor Level
63A 16 Way TP & N

63A MCB — 5 x 16.0 mm² XLPE/LSZH From DB-M at Ground Floor Level

32A RCBO	3 x 4.0 mm² XLPE/LSZH	P/TNK/01 - For Water Heater
32A RCBO	3 x 4.0 mm² XLPE/LSZH	P/TNK/02 - Tank Area General Power
32A RCBO	3 x 4.0 mm² XLPE/LSZH	P/TNK/03 - External Socket Outlets
32A MCB / 32A RCD	5 x 4.0 mm² XLPE/LSZH	P/TNK/04 - Overhead Crane Power
32A RCBO	3 x 4.0 mm² XLPE/LSZH	P/TNK/05 - Pump 01
32A MCB	3 x 6.0 mm² XLPE/LSZH	For **'MCP-01'** of Tank 1
32A MCB	3 x 6.0 mm² XLPE/LSZH	For **'MCP-02'** of Tank 2
32A MCB	3 x 6.0 mm² XLPE/LSZH	For **'MCP-03'** of Tank 3
32A MCB	3 x 6.0 mm² XLPE/LSZH	For **'MCP-04'** of Tank 4
32A MCB	3 x 6.0 mm² XLPE/LSZH	For **'MCP-05'** of Tank 5
32A MCB	3 x 6.0 mm² XLPE/LSZH	For **'MCP-06'** of Tank 6
32A MCB	3 x 6.0 mm² XLPE/LSZH	For **'MCP-07'** of Tank 7
32A MCB	3 x 6.0 mm² XLPE/LSZH	For **'MCP-08'** of Tank 8
32A MCB	3 x 6.0 mm² XLPE/LSZH	For **'MCP-09'** of Tank 9
32A MCB	3 x 6.0 mm² XLPE/LSZH	For **'MCP-10'** of Tank 10
32A MCB	3 x 6.0 mm² XLPE/LSZH	For **'MCP-11'** of Tank 11
32A MCB	3 x 6.0 mm² XLPE/LSZH	For **'MCP-12'** of Tank 12
32A MCB	3 x 6.0 mm² XLPE/LSZH	For **'MCP-13'** of Tank 13
32A MCB	3 x 6.0 mm² XLPE/LSZH	For **'MCP-14'** of Tank 14
32A MCB	3 x 6.0 mm² XLPE/LSZH	For **'MCP-15'** of Tank 15
32A MCB	3 x 6.0 mm² XLPE/LSZH	For **'MCP-EF'** of Tank EF
32A RCBO	----------	Spare
32A RCBO	----------	Spare
32A RCBO	----------	Spare
32A RCBO	----------	Spare
		Blank
		Blank
		Blank
		Blank
		Blank

Distribution Board 'DB-QA' at Ground Floor
40A 4 Way SP & N

40A MCB — 3 x 6.0 mm² XLPE/LSZH From DB-M at Ground Floor Level

10A RCBO	3 x 1.5mm² LSZH	L/QA/01 - Quarantine Room Lighting
	2 x 1.5mm² LSZH	For Power Pack
10A RCBO	3 x 1.5mm² LSZH	L/QA/02 - External Lighting
32A RCBO	3 x 4.0mm² LSZH	P/QA/01 - Quarantine Room General Power
32A RCBO	3 x 4.0mm² LSZH	P/QA/02 - WIFI Power
32A RCBO	3 x 4.0mm² LSZH	P/QA/03 - Water Heater Power
10A RCBO	----------	Spare
32A RCBO	----------	Spare
32A RCBO	----------	Spare
32A RCBO	----------	Spare
		Blank
		Blank
		Blank

Distribution Board 'DB-QB' at Ground Floor
40A 4 Way SP & N

40A MCB — 3 x 6.0 mm² XLPE/LSZH From DB-M at Ground Floor Level

10A RCBO	3 x 1.5mm² LSZH	L/QB/01 - Quarantine Room Lighting
	2 x 1.5mm² LSZH	For Power Pack
10A RCBO	3 x 1.5mm² LSZH	L/QB/02 - External Lighting
32A RCBO	3 x 4.0mm² LSZH	P/QB/01 - Quarantine Room General Power
32A RCBO	3 x 4.0mm² LSZH	P/QB/02 - WIFI Power
32A RCBO	3 x 4.0mm² LSZH	P/QB/03 - Water Heater Power
10A RCBO	----------	Spare
32A RCBO	----------	Spare
32A RCBO	----------	Spare
32A RCBO	----------	Spare
		Blank
		Blank
		Blank

Distribution Board 'DB-QC' at Ground Floor
40A 4 Way SP & N

40A MCB — 3 x 6.0 mm² XLPE/LSZH From DB-M at Ground Floor Level

10A RCBO	3 x 1.5mm² LSZH	L/QC/01 - Quarantine Room Lighting
	2 x 1.5mm² LSZH	For Power Pack
10A RCBO	3 x 1.5mm² LSZH	L/QC/02 - External Lighting
32A RCBO	3 x 4.0mm² LSZH	P/QC/01 - Quarantine Room General Power
32A RCBO	3 x 4.0mm² LSZH	P/QC/02 - WIFI Power
32A RCBO	3 x 4.0mm² LSZH	P/QC/03 - Water Heater Power
10A RCBO	----------	Spare
32A RCBO	----------	Spare
32A RCBO	----------	Spare
32A RCBO	----------	Spare
		Blank
		Blank
		Blank

Terminal Box of 'Pole 1'
32A SP & N

32A MCB — 3 x 4.0 mm² XLPE/LSZH From DB-AV in Aviary Area

10A RCBO	3 x 1.5mm² LSZH	L/P1/01 - Flood Light Power
10A RCBO	3 x 1.5mm² LSZH	L/P1/02 - Flood Light Power
10A RCBO	3 x 1.5mm² LSZH	L/P1/03 - Flood Light Power
10A RCBO	3 x 1.5mm² LSZH	L/P1/04 - Flood Light Power
20A RCBO	3 x 4.0mm² LSZH	P/P1/01 - CCTV Power

A2 PLEASE DO NOT SCALE FROM THE DRAWING

General Notes and Legends

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01	23.09.20	NA	Revised Layout

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