CALAMBA WATER DISTRICT
Lakeview Subdivision, Halang, Calamba City, Laguna
Tel. Nos. 545-1614; 545-2863; 545-2728; 545-7895; Fax No. 545-9752
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PHP QMS 2193 0047

APPROVED BUDGET FOR THE CONTRACT / BILL OF QUANTITIES

SUPPLY OF LABOR AND MATERIALS FOR THE REHABILITATION OF CWD BUILDING ELECTRICAL LOAD SCHEDULE WITH SINGLE LINE DIAGRAM

SUBJECT: **GENERAL REQUIREMENTS AND ELECTRICAL WORKS**

LOCATION: **CWD MAIN BUILDING**

DATE: **October 4, 2023**

Item No.	Description	Qty.	Unit	Estimated Direct Cost	Mark-up			Total Mark-ups	VAT	Total Indirect Cost	Total Cost	Unit Cost
					OCM	Profit	MOB/ DEMOB					
A.	**General Requirements**											
A.1	Temporary Facilities	1	lot									
A.2	Health and Safety	1	lot									
A.3	Asbuilt Plans	1	lot									
A.4	Demolition/Hauling	1	lot									
A.5	Repainting/Replastering Works	1	lot									
										Sub Total		
B	**Electrical Panelboard with Circuit Breakers**											
	Cables, Terminal Lugs and Conduits											
	Fittings, Connectors, Elbows											
B.1	**Main Circuit Breaker Panel**	1.00	lot									
	NEMA 4 - Wall Mount / Industrial Type Encl.											
	230V, 60Hz, 3-Wire, 3Φ											
	(Bolt-on type CBs)											
	Details:											
	1 - 400 AT / 450 AF /65 kAIC / 3P MCCB											
	Inclusion: Terminal Lugs on all CBs, Ground											
	Wire Connector											
B.2	**Manual Transfer Switch Panel**	1.00	lot									
	NEMA 4 - Wall Mount / Industrial Type Encl.											
	230V, 60Hz, 3-Wire, 3Φ											
	(Bolt-on type CBs)											
	Details:											
	2 - 400 AT / 450 AF /65 kAIC / 3P MCCB											
	Inclusion: Terminal Lugs on all CBs, Ground											
	Wire Connector											
B.3	**Main Distribution Panelboard**	1.00	lot									
	NEMA 1 - Wall Mount/ Industrial Type Encl.											
	230V, 60Hz, 3-Wire, 3Φ											

	(Bolt-on type CBs)											
	Main:											
	1 - 400 AT / 450 AF /65 kAIC / 3P MCCB											
	Branches:											
	2 - 225 AT / 250 AF /42 kAIC / 2P MCCB											
	5 - 175 AT / 250 AF /42 kAIC / 2P MCCB											
	1 - 125 AT / 250 AF /42 kAIC / 2P MCCB											
	2 - 40 AT / 100 AF /22 kAIC / 3P MCCB											
	Inclusion: Terminal Lugs on all CBs, Ground											
	Wire Connector											
B.4	**PB-1A (Panelboard)**	1.00	lot									
	NEMA 1 - Wall Mount / Industrial Type Encl.											
	230V, 60Hz, 2-Wire, 1Φ											
	(Bolt-on type CBs)											
	Main:											
	1 - 175 AT / 200 AF /42 kAIC / 2P MCCB											
	Branches:											
	2 - 50 AT / 50 AF /22 kAIC / 2P											
	6 - 30 AT / 50 AF /22 kAIC / 2P											
	8 - 20 AT / 50 AF /22 kAIC / 2P											
	Inclusion: Terminal Lugs on all CBs											
B.5	**PB-1B (Panelboard)**	1.00	lot									
	NEMA 1 - Wall Mount / Industrial Type Encl.											
	230V, 60Hz, 2-Wire, 1Φ											
	(Bolt-on type CBs)											
	Main:											
	1 - 175 AT / 200 AF /42 kAIC / 2P MCCB											
	Branches:											
	2 - 50 AT / 50 AF /22 kAIC / 2P											
	6 - 30 AT / 50 AF /22 kAIC / 2P											
	8 - 20 AT / 50 AF /22 kAIC / 2P											
	Inclusion: Terminal Lugs on all CBs, Ground											
	Wire Connector											
B.6	**PB-2A (Panelboard)**	1.00	lot									
	NEMA 1 - Wall Mount / Industrial Type Encl.											
	230V, 60Hz, 2-Wire, 1Φ											
	(Bolt-on type CBs)											
	Main:											
	1 - 225 AT / 250 AF /42 kAIC / 2P MCCB											
	Branches:											
	5 - 50 AT / 50 AF /22 kAIC / 2P											
	4 - 30 AT / 50 AF /22 kAIC / 2P											
	7 - 20 AT / 50 AF /22 kAIC / 2P											

	Inclusion: Terminal Lugs on all CBs											
B.7	**PB-2B Extension (Panelboard)**	1.00	lot									
	NEMA 1 - Wall Mount / Industrial Type Encl.											
	230V, 60Hz, 2-Wire, 1Φ											
	(Bolt-on type CBs)											
	Main:											
	1 - 175 AT / 200 AF /42 kAIC / 2P MCCB											
	Branches:											
	4 - 30 AT / 50 AF /22 kAIC / 2P											
	12 - 20 AT / 50 AF /22 kAIC / 2P											
	Inclusion: Terminal Lugs on all CBs, Ground											
	Wire Connector											
B.8	**PB-3 (Panelboard)**	1.00	lot									
	NEMA 1 - Wall Mount / Industrial Type Encl.											
	230V, 60Hz, 2-Wire, 1Φ											
	(Bolt-on type CBs)											
	Main:											
	1 - 175 AT / 250 AF /42 kAIC / 2P MCCB											
	Branches:											
	2 - 50 AT / 50 AF /22 kAIC / 2P											
	6 - 30 AT / 50 AF /22 kAIC / 2P											
	8 - 20 AT / 50 AF /22 kAIC / 2P											
	Inclusion: Terminal Lugs on all CBs, Ground											
	Wire Connector											
B.9	**PB-4 (Panelboard)**	1.00	lot									
	NEMA 1 - Wall Mount / Industrial Type Encl.											
	230V, 60Hz, 2-Wire, 1Φ											
	(Bolt-on type CBs)											
	Main:											
	1 - 225 AT / 250 AF /42 kAIC / 2P MCCB											
	Branches:											
	5 - 50 AT / 50 AF /22 kAIC / 2P											
	10 - 30 AT / 50 AF /22 kAIC / 2P											
	5 - 20 AT / 50 AF /22 kAIC / 2P											
	Inclusion: Terminal Lugs on all CBs, Ground											
	Wire Connector											
B.10	**PB-5 (Panelboard)**	1.00	lot									
	NEMA 1 - Wall Mount / Industrial Type Encl.											
	230V, 60Hz, 2-Wire, 1Φ											
	(Bolt-on type CBs)											
	Main:											
	1 - 175 AT / 250 AF /42 kAIC / 2P MCCB											
	Branches:											

	4 - 50 AT / 50 AF /22 kAIC / 2P											
	6 - 30 AT / 50 AF /22 kAIC / 2P											
	8 - 20 AT / 50 AF /22 kAIC / 2P											
	Inclusion: Terminal Lugs on all CBs, Ground											
	Wire Connector											
B.11	**Building Cable & Conduit for**											
	Service Conductors Main Feeders											
B.11.1	250mm2 THHN/THWN-2, RED	80.00	m									
B.11.2	250mm2 THHN/THWN-2, YELLOW	80.00	m									
B.11.3	250mm2 THHN/THWN-2, BLUE	80.00	m									
B.11.4	250mm2 THHN/THWN-2, GREEN	80.00	m									
B.11.5	90mm dia RSC PIPE, Incl. Fittings,Connectors and Elbows	1.00	lot									
B.12	**Building Cable & Conduit for**											
	MDP to PB-1A											
B.12.1	60mm2 THHN/THWN-2, RED	100.00	m									
B.12.2	60mm2 THHN/THWN-2, YELLOW	100.00	m									
B.12.3	22mm2 THHN/THWN-2, GREEN	100.00	m									
B.12.4	50mm dia RSC PIPE, Incl. Fittings,Connectors and Elbows	1.00	lot									
B.13	**Building Cable & Conduit for**											
	MDP to PB-1B											
	60mm2 THHN/THWN-2, RED	50.00	m									
	60mm2 THHN/THWN-2, YELLOW	50.00	m									
	22mm2 THHN/THWN-2, GREEN	50.00	m									
	50mm dia RSC PIPE, Incl. Fittings,Connectors and Elbows	1.00	lot									
B.14	**Building Cable & Conduit for**											
	MDP to PB-2A											
	100mm2 THHN/THWN-2, YELLOW	110.00	m									
	100mm2 THHN/THWN-2, BLUE	110.00	m									
	30mm2 THHN/THWN-2, GREEN	110.00	m									
	65mm dia RSC PIPE, Incl. Fittings,Connectors and Elbows	1.00	lot									
B.15	**Building Cable & Conduit for**											
	MDP to PB-2B											
	60mm2 THHN/THWN-2, YELLOW	60.00	m									
	60mm2 THHN/THWN-2, BLUE	60.00	m									
	22mm2 THHN/THWN-2, GREEN	60.00	m									
	50mm dia RSC PIPE, Incl. Fittings,Connectors and Elbows	1.00	lot									
B.16	**Building Cable & Conduit for**											
	MDP to PB-3											

	60mm2 THHN/THWN-2, BLUE	120.00	m									
	60mm2 THHN/THWN-2, RED	120.00	m									
	22mm2 THHN/THWN-2, GREEN	120.00	m									
	50mm dia RSC PIPE, Incl. Fittings,Connectors and Elbows	1.00	lot									
B.17	**Building Cable & Conduit for**											
	MDP to PB-4											
	100mm2 THHN/THWN-2, BLUE	130.00	m									
	100mm2 THHN/THWN-2, RED	130.00	m									
	30mm2 THHN/THWN-2, GREEN	130.00	m									
	65mm dia RSC PIPE, Incl. Fittings,Connectors and Elbows	1.00	lot									
B.18	**Building Cable & Conduit for**											
	MDP to PB-5											
	60mm2 THHN/THWN-2, RED	140.00	m									
	60mm2 THHN/THWN-2, YELLOW	140.00	m									
	22mm2 THHN/THWN-2, GREEN	140.00	m									
	50mm dia RSC PIPE, Incl. Fittings,Connectors and Elbows	1.00	lot									
B.19	**Building Cable & Conduit for**											
	MDP to Elevator & 5TR ACU											
	5.5mm2 THHN/THWN-2, RED	200.00	m									
	5.5mm2 THHN/THWN-2, YELLOW	200.00	m									
	5.5mm2 THHN/THWN-2, BLUE	200.00	m									
	5.5mm2 THHN/THWN-2, GREEN	200.00	m									
	20mm dia RSC PIPE, Incl. Fittings,Connectors and Elbows	1.00	lot									
										Sub-Total		
C.1	**Pipes/Cable Tray/ False Wall**											
C.1.4	Cable tray with hanging rod and complete accessories	38.00	m									
C.1.5	1/4'' thk. Gypsum Board/Hardieflex	8.00	pcs									
C.1.6	Metal Furring	50.00	pcs									
C.1.7	Pull Box	5.00	pcs									
C.1.8	Weatherproof Sealant	3.00	pcs									
C.1.10	Miscellaneous Items	1.00	lot									
										Sub-Total		
TOTAL PROJECT COST												