



Republic of the Philippines
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BIDS AND AWARDS COMMITTEE

SUPPLEMENTAL / BID BULLETIN - 1

This Bid Bulletin is issued to modify or amend items in the Bid Documents. This shall form an integral part of the Bid Documents. Please take note of the changes/adjustments for the project, **Repair and Improvement of White House** with an **ABC of ₱ 1,788,485.74**.

1. Site inspection is a must. The project must be finished for 120 calendar days.
There are three additional pages in the plan for schedule of load.
2. Site Clearing
 - a. Removal/replacement of all existing fixtures and the whole system of electrical and plumbing works.
3. Formworks/Concrete and Masonry works:
 - a. Provide formworks and scaffolding needed to complete the project.
 - a.1. Use good lumber and 1/2" marine plywood for formworks.
 - b. Concrete Works
 - b.1. For class A concrete; use 1:2:4 concrete mixture.
 - b.2. Concrete works shall be plastered plain cement finished.
 - c. Masonry Works
 - c.1. Use CHB 4" reinforced with 10mm Ø corrugated steel bar spaced at 800 mm every three layers.
 - c.2. Provide 4-12 mm Ø bar tied with 10 mm Ø steel bar at every 0.15 m on center.
4. Plumbing Works *Remove and replace all existing plumbing lines. See plan.*
Supply and installation of the following:
 - a. For water supply line: use PPR pipes, PN 10, and fittings 32mm Ø and 20 mm Ø including gate valves from the source and for each comfort room.
 - b. For waste water pipelines: use 110 mm Ø and 52 mm Ø PVC orange S-1000 pipes and fittings. Use neltex saniguard or any approved equivalent.
 - c. For plumbing fixtures and accessories:
 - c.1. Close coupled water closet, dual flush type, push button complete with all water supply and sewer line fittings and accessories; including pedestal type lavatory with stainless heavy duty lever type lavatory faucet; including soap, paper and towel holders. (4 sets)
 - c.2. Kitchen sink, stainless and deep type complete with heavy duty fittings including stainless gooseneck type faucet (1 set).
 - c.3. Stainless heavy duty shower set (4 sets)
 - c.4. Stainless heavy duty wall type faucet (4 sets)
 - c.5. Ceramic floor drain (12 pieces)

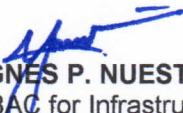
Take Note: All fixtures must be colored and complete with all heavy duty fittings and accessories.
5. Electrical Works *Remove and replace all existing electrical lines. See plan and load schedule.*
Supply and installation of the following:
 - a. Industrial type panel boards complete with all bolt-on circuit breakers for LPP1, LPP2 & MDP.
See attached schedule of loads for other components and accessories.
 - b. Electrical fixtures, switches, outlets and other electrical devices.
 - b.1. Led Bulb 7W with 4" PVC receptacle (9 sets)
 - b.2. LED Lighting fixtures 11W (9 sets)
 - b.3. LED Lighting fixtures 16W, ceiling lamp (13 sets)

- b.4. LED Downlight, daylight 7W (3 sets)
 - b.5. LED Downlight, warm 7W (24 sets)
 - b.6. ACU outlet (Panasonic/National or its approved equal) 6 sets
 - b.7. Special HD outlet for Range, Ref & WH (Panasonic/National or its approved equal) 4 sets
 - b.8. All convenience outlets and switches with LED (see plan).
(Panasonic/National or its approved equal)
 - c. Conductors and PVC conduit/ junction box/utility box from main panel to all convenience outlet and light outlets.
 - c.1. PVC conduit pipes.
 - c.2. Deep type PVC junction and utility box
 - c.3. THHN stranded wires
6. Carpentry Works
- a.1. Supply and installation of panel doors complete with all accessories, door jamb and heavy duty brass locksets (16 sets)
7. This bid bulletin does not cancel the information given in the scope of work of the Bill of Quantities but adds clarification to it. Please attach this added information/bid bulletin to the BOQ and be included in the financial envelop.
8. The Construction and Safety Health Program of the Contractor to be submitted in this bidding procedure must be certified by its President/Owner. DOLE approved CSHP may be required upon post qualification.
9. All projects to be undertaken by a contractor of the university should have its own electrical and resident site engineers.

Prepared by:


MICHELLE A. SANTOS
BAC Secretary

Approved:


MA. AGNES P. NUESTRO, PhD
Chair, BAC for Infrastructure Projects

Received by the Bidder : _____
Date : _____

REPAIR & IMPROVEMENT OF WHITE HOUSE - SCHEDULE OF LOADS

PANEL : Lighting & Power -LPP1 CABLE: 3 - 8.0 SQ. MM THHN + G 5.5 SQ MM THHN MAIN: 70 AT, 100AF, 3P, 230V, 15 kAIC,CB
Phase : Three Phase CONDUIT: RSC, 32 MM DIA. ENCLOSURE : NEMA 1
VOLTS: 230 LOCATION: GROUND FLOOR MOUNTING: SURFACE

Circuit No.	No. of Outlets	Description	Load Rating in							Size of Conductor (mm²)			Color	Ø Conduit (mm²)	Circuit Protection				
			HP	Φ	Volts	Watts	Amperes			THHN	+	THHN (G)	Code		AT	AF	kAIC	POLE	Type
							AB	BC	CA										
1	12	Lighting Outlet		1	230	1200	5.22			2 - 2.0			1R, 1B	20	15	100	10	2	B - On
2	8	Lighting Outlet		1	230	800	3.48			2 - 2.0			1R, 1B	20	15	100	10	2	B - On
3	9	Lighting Outlet		1	230	900		3.91		2 - 2.0			1B, 1Y	20	15	100	10	2	B - On
4	8	Convenience Outlet		1	230	1440		6.26		2 - 3.5	+	1 - 2.0	1B, 1Y,1G	20	20	100	10	2	B - On
5	5	Convenience Outlet		1	230	900			3.91	2 - 3.5	+	1 - 2.0	1B, 1Y, 1G	20	20	100	10	2	B - On
6	1	Refrigerator		1	230	1000			4.35	2 - 3.5	+	1 - 2.0	1B, 1Y, 1G	20	20	100	10	2	B - On
7	1	Water Heater		1	230	3800	16.52			2 - 3.5	+	1 - 2.0	1R, 1B,1G	20	20	100	10	2	B - On
8	1	ACU Outlet		1	230	1000		10.00		2 - 3.5	+	1 - 2.0	1R, 1B,1G	20	20	100	10	2	B - On
9	1	Range Outlet		1	230	3000			13.04	2 - 3.5	+	1 - 2.0	1B, 1Y, 1G	20	20	100	10	2	B - On
10		Spare																	
TOTAL				1	230	14040	25.22	20.17	21.30	3 - 8.0THHN	+	1 -5.5THHN	1R, 1B, 1Y, G	32					

FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE: USE: $IFL = \frac{[25.22 \times 1.732 + (25\% \times Im)]}{DF}$ = 46.18 Amperes

G - Means Ground Wire

1R- Color RED

1B- Color BLACK

1Y- Color YELLOW

1G- Color GREEN

FEEDER: 2 - 8.0 mm² THHN + 1 - 5.5 THHN mm² (G) in 20mm ø RSC

ICB = $\frac{[25.22 \times 1.732 + (250\% \times Im)]}{DF}$ = 68.68 Amperes

USE:

MAIN: 70AT, 100AF, 240V, 3P, 15 kAIC, CB with Solid Neutral

This Electrical Design is good only for the above connected loads.
Any additional electrical load connection in the future is prohibited,
Except redesign of electrical load system will be done.

BID BULLETIN #1

page 1 of 3 pages

REPAIR & IMPROVEMENT OF WHITE HOUSE - SCHEDULE OF LOADS

PANEL : Lighting & Power -LPP2 CABLE: 3 - 8.0 SQ. MM THHN + G 5.5 SQ MM THHN
 Phase : Three Phase CONDUIT: RSC, 32 MM DIA.
 VOLTS: 230 LOCATION: SECOND FLOOR

MAIN: 70 AT, 100AF, 3P, 230V, 15 kAIC,CB
 ENCLOSURE : NEMA 1
 MOUNTING: SURFACE

Circuit No.	No. of Outlets	Description	Load Rating in							Size of Conductor (mm²)		Color	Ø Conduit (mm²)	Circuit Protection				
			HP	Φ	Volts	Watts	Amperes			THHN	+ THHN (G)			Code	AT	AF	kAIC	POLE
							AB	BC	CA									
1	13	Lighting Outlet		1	230	1300	5.65			2 - 2.0		1R, 1B	20	15	100	10	2	B - On
2	14	Lighting Outlet		1	230	1400	6.09			2 - 2.0		1R, 1B	20	15	100	10	2	B - On
3	6	Convenience Outlet		1	230	1080		4.70		2 - 3.5	+ 1 - 2.0	1B, 1Y,1G	20	20	100	10	2	B - On
4	8	Convenience Outlet		1	230	1440		6.26		2 - 3.5	+ 1 - 2.0	1B, 1Y,1G	20	20	100	10	2	B - On
5	1	Water Heater		1	230	3800			16.52	2 - 3.5	+ 1 - 2.0	1R, 1B,1G	20	20	100	10	2	B - On
6	1	ACU Outlet		1	230	1000			10.00	2 - 3.5	+ 1 - 2.0	1R, 1B,1G	20	20	100	10	2	B - On
7	1	ACU Outlet		1	230	1000	10.00			2 - 3.5	+ 1 - 2.0	1R, 1B,1G	20	20	100	10	2	B - On
8		Spare																
9		Spare																
10		Spare																
TOTAL				1	230	11020	21.74	10.96	26.52	3 - 8.0THHN	+ 1 -5.5THHN	1R, 1B, 1Y, G	32					

FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE: G - Means Ground Wire

1R- Color RED
 1B- Color BLACK
 1Y- Color YELLOW
 1G- Color GREEN

USE: IFL = $\frac{[26.52 \times 1.732 + (25\% \times 1m)]}{DF}$ = 40.15 Amperes

FEEDER: 2 - 8.0 mm² THHN + 1 - 5.5 THHN mm² (G) in 20mm ø RSC

ICB = $\frac{[26.52 \times 1.732 + (250\% \times 1m)]}{DF}$ = 62.65 Amperes

USE: MAIN: 70AT, 100AF, 240V, 3P, 15 kAIC, CB with Solid Neutral

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BID BULLETIN #1

page 2 of 3 pages

REPAIR & IMPROVEMENT OF WHITE HOUSE - SCHEDULE OF LOADS

PANEL : Main Dist Panel- MDP

CABLE: 3 - 22.0 SQ. MM THHN + G 8.0 SQ MM THHN

MAIN: 100 AT, 100AF, 3P, 230V,15 kAIC,CB

Phase : Three Phase

CONDUIT: RSC, 40 MM DIA.

ENCLOSURE : NEMA 1

VOLTS: 230

LOCATION: SECOND FLOOR

MOUNTING: SURFACE

Circuit No.	Panel Code	Panel Description	Load Rating in							Size of Conductor (mm²)			Color	Ø Conduit (mm²)	Circuit Protection				
			HP	Φ	Volts	Watts	Amperes			THHN + THHN (G)			Code		AT	AF	kAIC	POLE	Type
							AB	BC	CA										
1	LPP1	Light & Power Panel1		1	230	14040	25	20	21	3 - 8.0THHN	+	1 -5.5THHN	1R, 1B, 1Y, G	32	70	100	15	3	B - On
2	LPP2	Light & Power Panel2		1	230	11020	22	11	27	3 - 8.0THHN	+	1 -5.5THHN	1R, 1B, 1Y, G	32	70	100	15	3	B - On
3		Spare																	
4		Spare																	
TOTAL				1	230	25060	46.96	31.13	47.83	3 - 22.0THHN	+	1 -8.0THHN	1R, 1B, 1Y, G	40					

FEEDER and CURRENT PROTECTION COMPUTATION:

NOTE:

G - Means Ground Wire

1R- Color RED

1B- Color BLACK

1Y- Color YELLOW

1G- Color GREEN

$$USE: IFL = \frac{[47.83 \times 1.732 + (25\% \times Im)]}{DF} = 81.33 \text{ Amperes}$$

FEEDER: 2 - 22.0 mm² THHN + 1 - 8.0 THHN mm² (G) in 20mm Ø RSC

$$ICB = \frac{[47.83 \times 1.732 + (250\% \times Im)]}{DF} = 81.33 \text{ Amperes}$$

USE:

MAIN: 100AT, 100AF, 240V, 3P, 15 kAIC, CB with Solid Neutral

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BID BULLETIN #1

page 3 of 3 pages