

## **BILL OF QUANTITIES**

PROJECT TITLE : PROPOSED REWIRING/UPGRADING OF CGAF ELECTRICAL SYSTEM  
 LOCATION : DOTR HANGAR, DOMESTIC AIRPORT COMPLEX, PASAY CITY  
 OWNER : PHILIPPINE COAST GUARD  
 SUBJECT : **DETAILED COST ESTIMATE SUMMARY**

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### S U M M A R Y

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		% WEIGHT	MATERIALS	LABOR
I	WIRES AND CABLES		₱	₱
II	PIPES AND FITTINGS		₱	₱
III	WIRING DEVICES		₱	₱
IV	LIGHTING FIXTURES		₱	₱
V	BOXES AND CONDULETS		₱	₱
VI	PANELBOARDS AND CIRCUIT BREAKERS		₱	₱
VII	FIRE DETECTION AND ALARM SYSTEM		₱	₱
VIII	MISCELLANEOUS AND HARDWARES		₱	₱
<b>TOTAL</b>			₱	₱

## BID FORMAT

PROJECT TITLE : PROPOSED REWIRING/UPGRADING OF CGAF ELECTRICAL SYSTEM  
 LOCATION : DOTR HANGAR, DOMESTIC AIRPORT COMPLEX, PASAY CITY  
 OWNER : PHILIPPINE COAST GUARD  
 SUBJECT : **DETAILED ESTIMATES RECAPITULATION**

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**R E C A P I T U L A T I O N**

<b>I</b>	<b>DIRECT COST</b>		
	A MATERIAL COST		₱
	B LABOR COST		₱
	C EQUIPMENT COST (Mobilization)		₱
<b>TOTAL DIRECT COST ( TDC )</b>			₱
<b>II</b>	<b>INDIRECT COST (IC)</b>		
	D OVERHEAD, CONTINGENCIES AND MISCELLANEOUS EXPENSES ( ___ % of A+B )		₱
	E CONTRACTOR'S PROFIT ( ___ % of A+B )		₱
<b>TOTAL INDIRECT COST ( TIC )</b>			₱
<b>III</b>	<b>VAT ( ___ % of TDC +TIC )</b>		₱
<b>IV</b>	<b>TOTAL PROJECT COST ( I+II+III )</b>		₱

**AMOUNT IN WORDS:** \_\_\_\_\_

## DETAILED COST ESTIMATE

**PROJECT TITLE :** PROPOSED REWIRING/UPGRADING OF CGAF ELECTRICAL SYSTEM  
**LOCATION :** DOTR HANGAR, DOMESTIC AIRPORT COMPLEX, PASAY CITY  
**OWNER :** PHILIPPINE COAST GUARD  
**SUBJECT :** DETAILED COST ESTIMATE FORMAT

NO	DESCRIPTION	QTY	UNIT	MATERIAL COST	LABOR COST	TOTAL DIRECT COST	MARK-UPS IN PERCENT			TOTAL INDIRECT COST	VAT	TOTAL COST	UNIT COST
							OCM	PROFIT	TOTAL				
<b>I WIRES AND CABLES</b>													
	<b>THHN/THWN</b>												
01	3.5mm <sup>2</sup> Cu. Cond. Strnd		roll										
02	5.5mm <sup>2</sup> Cu. Cond. Strnd		roll										
	<b>ROYAL CORD</b>												
03	2.0mm <sup>2</sup> /3C Cu. Cond. Strnd		m										
	<b>TW (Grounding)</b>												
04	3.5mm <sup>2</sup> Cu. Cond. Strnd		roll										
05	5.5mm <sup>2</sup> Cu. Cond. Strnd		roll										
	<b>THW</b>												
06	150mm <sup>2</sup> Cu. Cond. Strnd		m										
07	50mm <sup>2</sup> Cu. Cond. Strnd		m										
08	38mm <sup>2</sup> Cu. Cond. Strnd		m										
09	30mm <sup>2</sup> Cu. Cond. Strnd		m										
10	14mm <sup>2</sup> Cu. Cond. Strnd		m										
	<b>TW (Grounding)</b>												
11	150mm <sup>2</sup> Cu. Cond. Strnd		m										
12	50mm <sup>2</sup> Cu. Cond. Strnd		m										
13	38mm <sup>2</sup> Cu. Cond. Strnd		m										
14	30mm <sup>2</sup> Cu. Cond. Strnd		m										
15	14mm <sup>2</sup> Cu. Cond. Strnd		m										
	<b>Sub - Total I</b>												
<b>II PIPES AND FITTINGS</b>													
	<b>IMC Pipes &amp; Fittings</b>												
01	100mm Ø x 3m Pipe w/ Coupling		lgth										
02	100mm Ø Locknut & Bushing		pair										

	<b>PVC Pipe &amp; Fittings</b>												
03	110mm Ø x 3m Pipe		lgth										
04	50mm Ø x 3m Pipe		lgth										
05	40mm Ø x 3m Pipe		lgth										
06	32mm Ø x 3m Pipe		lgth										
07	20mm Ø x 3m Pipe		lgth										
08	110mm Ø Elbow		pc										
09	50mm Ø Elbow		pc										
10	40mm Ø Elbow		pc										
11	32mm Ø Elbow		pc										
12	110mm Ø Endbell		pc										
13	50mm Ø Endbell		pc										
14	40mm Ø Endbell		pc										
15	32mm Ø Endbell		pc										
16	<b>EMT Pipes &amp; Fittings</b>												
17	40mm Ø x 3m Pipe		lgth										
18	32mm Ø x 3m Pipe		lgth										
19	15mm Ø x 3m Pipe		lgth										
20	40mm Ø Connector, Set Screw Type		pc										
21	32mm Ø Connector, Set Screw Type		pc										
22	15mm Ø Connector, Set Screw Type		pc										
23	40mm Ø Coupling, Set Screw Type		pc										
24	32mm Ø Coupling, Set Screw Type		pc										
25	15mm Ø Coupling, Set Screw Type		pc										
	<b>Sub - Total II</b>												
<b>III WIRING DEVICES</b>													
01	One-Way, One Gang Switch		set										
02	One-Way, Two-Gang Switch		set										
03	Three-Way, One-Gang Switch		set										
04	Duplex Convenience Outlet		set										
05	ACU Outlet		set										
	<b>Sub - Total III</b>												
<b>IV LIGHTING FIXTURES</b>													
01	1 - 2 x 11W LED Pin Light w/ 6" x 6" Glass Covered Lighting Fixture		set										
02	1 - 1 x 15W Tubular LED Lamp w/ Diffuser Lighting Fixture		set										
03	1 - 2 x 15W Tubular LED Lamp w/ Diffuser Lighting Fixture		set										
04	1 - 3 x 11W LED Center Lamp Lighting Fixture		set										
05	1 - 150W LED Equivalent High Bay Lighting Fixture		set										
06	Dual LED Emergency Lamp		set										
	<b>Sub - Total IV</b>												

V BOXES AND CONDULETS												
01	4 x 4 Ga #14 Junction Box w/ Cover		pc									
02	4 x 2 Ga #14 Utility Box		pc									
03	300 x 300 x 200mm Ga #14 Pull Box		pc									
04	600 x 500 x 400mm Ga #14 Pull Box		pc									
<b>Sub - Total V</b>												
VI PANELBOARDS AND CIRCUIT BREAKERS												
01	<b>Main Disconnect Switch (MDS)</b> 500AT, 3P, 250V, 60Hz, Fusible Type		assy									
02	<b>Manual Transfer Switch (MTS)</b> 500AT, 42kAIC, 600AF, 3P, 250V, 60Hz in Surface Mounting Enclosure		assy									
3	<b>Distribution Panel (DP)</b> Main : 500AT, 42kAIC, 600AF, 3P, 250V, 60Hz Branches : 3 - 60AT, 25kAIC, 100AF, 3P, 250V, 60Hz 4 - 100AT, 25kAIC, 150AF, 3P, 250V, 60Hz 1 - 125AT, 25kAIC, 150AF, 3P, 250V, 60Hz 2 - Space		assy									
04	<b>Lighting and Power Panel (LPP1)</b> Main : 60AT, 25kAIC, 100AF, 3P, 250V,60Hz Branches : 8 - 15AT, 10kAIC, 50AF, 2P, 250V, 60Hz 6 - 20AT, 10kAIC, 50AF, 2P, 250V, 60Hz 2 - Space		assy									
05	<b>ACU Power Panel (PACU1)</b> Main : 100AT, 25kAIC, 150AF, 3P, 250V,60Hz Branches : 13 - 15AT, 10kAIC, 50AF, 2P, 250V, 60Hz 2 - Space		assy									
06	<b>Lighting and Power Panel (LPP2)</b> Main : 60AT, 25kAIC, 100AF, 3P, 250V,60Hz Branches : 6 - 15AT, 10kAIC, 50AF, 2P, 250V, 60Hz 4 - 20AT, 10kAIC, 50AF, 2P, 250V, 60Hz 2 - Space		assy									
07	<b>ACU Power Panel (PACU2)</b> Main : 125AT, 25kAIC, 150AF, 3P, 250V,60Hz Branches : 12 - 20AT, 10kAIC, 50AF, 2P, 250V, 60Hz 1 - 30AT, 10kAIC, 50AF, 2P, 250V, 60Hz 3 - Space		assy									

08	<b>Lighting and Power Panel (LPP3)</b> Main : 60AT, 25kAIC, 100AF, 3P, 250V,60Hz Branches : 6 - 15AT, 10kAIC, 50AF, 2P, 250V, 60Hz 6 - 20AT, 10kAIC, 50AF, 2P, 250V, 60Hz 2 - Space		assy											
09	<b>ACU Power Panel (PACU3)</b> Main : 100AT, 25kAIC, 150AF, 3P, 250V,60Hz Branches : 13 - 20AT, 10kAIC, 50AF, 2P, 250V, 60Hz 1 - 30AT, 10kAIC, 50AF, 2P, 250V, 60Hz 3 - Space		assy											
10	<b>Lighting and Power Panel (LPP4)</b> Main : 60AT, 25kAIC, 100AF, 3P, 250V,60Hz Branches : 4 - 15AT, 10kAIC, 50AF, 2P, 250V, 60Hz 8 - 20AT, 10kAIC, 50AF, 2P, 250V, 60Hz 2 - Space		assy											
11	<b>Lighting and Power Panel (LPP5)</b>		assy											
12	Main : 60AT, 25kAIC, 100AF, 3P, 250V,60Hz Branches : 4 - 15AT, 10kAIC, 50AF, 2P, 250V, 60Hz 2 - 20AT, 10kAIC, 50AF, 2P, 250V, 60Hz 2 - Space Motor Control Panel for Overhead Crane		assy											
<b>Sub Total VI</b>														
<b>VII FIRE DETECTION AND ALARM SYSTEM</b>														
	<b>Fire Alarm System</b>													
01	Wires and Cables		lot											
02	Pipes and Fittings		lot											
03	Wiring Devices		set											
04	Fire Alarm Control Panel		unit											
05	Boxes and Condulets		lot											
06	Miscellaneous and Hardwares		lot											
07	Fire Extinguisher with Mounting Bracket		unit											
<b>Sub - Total VII</b>														
<b>VIII MISCELLANEOUS AND HARDWARES</b>														
01	30mm <sup>2</sup> Bare Copper Wire		m											
02	5/8" Ø Copper Ground Rod		pc											
03	Exothermic Welding Process		lot											
04	Electrical Tape		bndl											
05	Rubber Tape		roll											
06	Hacksaw Blade		pc											
07	Ga #14 GI Pull Wire		kg											

08	PVC Cement, 120cc		can									
09	Assorted Cable Ties		pack									
10	Cable Markers		pack									
11	Cable Glands		pc									
12	Assorted Terminal Lugs		bx									
13	Bolts and Nuts		lot									
14	Affected Ceiling/Wall Restoration		lot									
15	Chipping and Masonry Works		lot									
16	Hangers and Supports		unit									
	<b>Sub - Total VIII</b>											
	<b>TOTAL COST</b>											
<b>GRAND TOTAL</b>												