

BILL OF QUANTITIES

Project Title: SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF POWER SUPPLY REQUIREMENTS FOR CEA LABORATORY EQUIPMENT

Location: ISAT U, NEW SITE CAMPUS, BURGOS STREET, LAPAZ, ILOILO CITY

Total Project Cost :

Electrical Supply, installation, Testing and Commissioning of the following:		Implementation Mode			Lump Sum Contract		
		Project Duration			17 Calendar Days		
		Equipment Needed				As required necessary	
		Technical Personnel			Electrical Engr., Qualified Technicians		
SN	DESCRIPTION	% WEIGHT	UNIT	QTY.	UNIT COST	AMOUNT	
Item No. 1.0: Grounding System Works							
1.1	Ground Rod, Copper Bonded (Unthreaded) 3/4" x 10ft			1.00	pc		
1.2	Inspection Pit, Concrete 320 x 320 x190 mm, compressive strength 6000kg			1.00	pc		
1.3	Wire, Copper, Bare, 100mm ² (4/0 AWG) - Made in Phils.			6.00	m		
1.4	Connector, Two Bolt, Copper, Tap 350-500, "B-B"			1.00	pc		
1.5	Grounding Busbar, Copper, 30mm(W) x 200mm(L) x 3mm(T), With 6 Holes, Brackets & Red Fiber Insulators			1.00	set		
1.6	Terminal Lug, Compression Type, Long Barrel, Single Hole, CuAL, 1/2" stud hole, For 4/0 AWG			1.00	pc		
1.7	Connector, Copper, Split Bolt, For 4/0 AWG			1.00	pc		
1.8	Consumables and Accessories			1.00	lot		
	Subtotal						

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Item No. 2.0: MDP Installation Works (Circuit Breakers, Feeder Conductors and Other Accessories)							
2.1	Transformer Breaker Panel With 3x200:5 CTs, With 1 set Digital Power Meter (Breaker, Wirings, Controls, etc.), NEMA 1 Type, All Breakers Schneider Brand, No Main Breaker; Branches: 1-EZC100F-100AT-3P, 2-EZC100F-75AT-3P, 1-EZC100F-50AT-3P, 6-MCB, Chint, 16AT-1P, With 1 set 5 Holes Neutral Busbar & also 1 set 5 Holes Ground Busbar.			1.00	assy.		
2.2	Wire, THHN, 14mm ² (6 AWG), Green Color			8.00	m		
2.3	Wire, THHN, 100mm ² (2/0 AWG), Red Color			6.00	m		
2.4	Wire, THHN, 100mm ² (2/0 AWG), Yellow Color			6.00	m		
2.5	Wire, THHN, 100mm ² (2/0 AWG), Blue Color			6.00	m		
2.6	Wire, THHN, 8.0mm ² (8 AWG), Green Color			16.00	m		
2.7	Wire, THHN, 30mm ² (2/0 AWG), Red Color			6.00	m		
2.8	Wire, THHN, 30mm ² (2/0 AWG), Yellow Color			6.00	m		
2.9	Wire, THHN, 30mm ² (2/0 AWG), Blue Color			6.00	m		
2.10	Wire, THHN, 22mm ² (2/0 AWG), Red Color			6.00	m		
2.11	Wire, THHN, 22mm ² (2/0 AWG), Yellow Color			6.00	m		
2.12	Wire, THHN, 22mm ² (2/0 AWG), Blue Color			6.00	m		
2.13	Wire, THHN, 5.5mm ² (10 AWG), Green Color			8.00	m		
2.14	Wire, THHN, 8.0mm ² (8 AWG), Red Color			6.00	m		
2.15	Wire, THHN, 8.0mm ² (8 AWG), Yellow Color			6.00	m		
2.16	Wire, THHN, 8.0mm ² (8 AWG), Blue Color			6.00	m		
2.17	Terminal Lug, Compression Type, Single Hole, CuAL, 5/16" stud hole, For 14mm ² (6 AWG)			2.00	pcs		

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2.18	Terminal Lug, Compression Type, Single Hole, CuAL, For 8mm ² (8 AWG)			4.00	pcs		
2.19	Terminal Lug, Compression Type, Single Hole, CuAL, For 5.5mm ² (10 AWG)			2.00	pcs		
2.20	Consumables and Accessories			1.00	lot		
Subtotal							
Item No. 3.0: Distribution Panelboards for 3 nos. laboratory rooms including their feeder and wiring installation							
3.1	Main Distribution Panel, NEMA 1 Type, Components maybe of the following brands: Schneider or Eaton or Moeller or Chint or Equal. Main: 1-EZC100F-75AT-3P, Branches: 8-Motor Circuit Breaker(Motor Protection Starter) , DIN Rail Type, Knob Operated, 3 Poles, Similar To Chint NS2-25X, Rated Current 9-14A, 6-MCB, Chint, 16AT-1P , With 1 set 23 Holes Neutral Busbar & With 1 set 23 Holes Ground Busbar.			1.00	set		
3.2	Main Distribution Panel, NEMA 1 Type, Components maybe of the following brands: Schneider or Eaton or Moeller or Chint or Equal. Main: 1-EZC100F-60AT-3P, Branches: 6-Motor Circuit Breaker(Motor Protection Starter) , DIN Rail Type, Knob Operated, 3 Poles, Similar To Chint NS2-25X, Rated Current 9-14A, 6-MCB, Chint, 16AT-1P , With 1 set 19 Holes Neutral Busbar & With 1 set 19 Holes Ground Busbar.			1.00	set		
3.3	Main Distribution Panel, NEMA 1 Type, Components maybe of the following brands: Schneider or Eaton or Moeller or Chint or Equal. Main: 1-EZC100F-40AT-3P, Branches: 4-Motor Circuit Breaker(Motor Protection Starter) , DIN Rail Type, Knob Operated, 3 Poles, Similar To Chint NS2-25X, Rated Current 6-10A, 6-MCB, Chint, 16AT-1P , With 1 set 11 Holes Neutral Busbar & With 1 set 11 Holes Ground Busbar.			1.00	set		
3.4	Wire, THHN, 8.0mm ² (8 AWG), Green Color			48.00	m		
3.5	Wire, THHN, 22mm ² (4 AWG), Red Color			48.00	m		
3.6	Wire, THHN, 22mm ² (4 AWG), Yellow Color			48.00	m		
3.7	Wire, THHN, 22mm ² (4 AWG), Blue Color			48.00	m		

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3.8	Wire, THHN, 22mm ² (4 AWG), White Color		48.00	m			
3.9	Wire, THHN, 5.5mm ² (10 AWG), Green Color		58.00	m			
3.10	Wire, THHN, 14mm ² (6 AWG), Red Color		34.00	m			
3.11	Wire, THHN, 14mm ² (6 AWG), Yellow Color		34.00	m			
3.12	Wire, THHN, 14mm ² (6 AWG), Blue Color		34.00	m			
3.13	Wire, THHN, 14mm ² (6 AWG), White Color		34.00	m			
3.14	Wire, THHN, 8.0mm ² (8 AWG), Red Color		24.00	m			
3.15	Wire, THHN, 8.0mm ² (8 AWG), Yellow Color		24.00	m			
3.16	Wire, THHN, 8.0mm ² (8 AWG), Blue Color		24.00	m			
3.17	Wire, THHN, 8.0mm ² (8 AWG), White Color		24.00	m			
3.18	Wire, THHN, 2.0mm ² (14 AWG), Green Color		794.00	m			
3.19	Wire, THHN, 3.5mm ² (12 AWG), Red Color		619.00	m			
3.20	Wire, THHN, 3.5mm ² (12 AWG), Yellow Color		639.00	m			
3.21	Wire, THHN, 3.5mm ² (12 AWG), Blue Color		500.00	m			
3.22	Wire, THHN, 3.5mm ² (12 AWG), White Color		794.00	m			
3.23	Terminal Lug, Compression Type, Single Hole, For 5.5mm ² (10 AWG)		4.00	pcs			
3.24	Terminal Lug, Compression Type, Single Hole, For 8.0mm ² (8 AWG)		2.00	pcs			
3.25	Consumables and Aecessories, Others		1.00	lot			
3.26	C Purlins, 6"(W) x 2"(H) x 1.2mm(T)		42.00	m			
3.27	Plain Sheet Cover, Ga#22, 4'(W) x 8'(L) x 0.8mm(T)		39.00	m			
3.28	Angle Bar, 1" x 1" x 4mm(T) x 20'(L)		5.00	Lgts			
3.29	Threaded Rod, 3/8"Ø x 3m(L)		44.00	Lgts			

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3.30	Anchor Grip, 3/8"Ø		8.00	packs			
3.31	Nut, 3/8"Ø, For 3/8" Threaded Rod		5.00	boxes			
3.32	Washer, Round, 11/16"Ø, For 3/8" Threaded Rod		5.00	boxes			
3.33	Welding Rod, Wipweld, 3/32"(2.5mm),E6011		2.00	kg.			
3.34	Pull Box, 8"(L) x 8"(H) x 4"(W)		1.00	pcs.			
3.35	LQT Connector, Straight, 1"Ø		2.00	pcs.			
3.36	Cutting Disc, Tailen		7.00	pcs.			
3.37	Grinding Disc, Premium, Tyrolit		3.00	pc			
3.38	Cutting Disc, Diamond, Ultra Thin, Lotus		2.00	pc			
3.39	Tape, Rubber, Self Fusing, No. 15, Nitto		2.00	pcs.			
3.40	Tape, Electrical, 19mm x 16m x 0.15mm, 3M, 160 Temflex, Black		11.00	pcs.			
3.41	Mica Tube, 1/2" x 1.0m		30.00	m			
3.42	Epoxy Primer Gray, Liter		4.00	li.			
3.43	Epoxy Reducer, Liter		3.00	li.			
3.44	Paint Brush, 3"		6.00	pcs.			
3.45	Baby Roller Brush, 4"		6.00	pcs.			
3.46	Paint Tray, PVC, Black		3.00	pc			
3.47	Lugs, Connectors, Ferrules, Cable Ties, Others		1.00	lot			
	Subtotal						

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Item No. 4.0: General Requirements							
4.1	Safety and Security			1.00 lot			
	Subtotal						
TOTAL WORK ITEM COST							
BREAKDOWN OF WORK ITEM COST							
DIRECT COST		Total Material Cost					
		Total Equipment Cost					
		Total Labor Cost					
		Total Direct Cost					
INDIRECT COST		O.C.M Cost					
		Profit					
		Tax					
TOTAL WORK ITEM COST							

Name of Bidder