

ITEM	ELECTRICAL SYSTEM DESCRIPTION	UNIT	QTY	MATERIALS		LABOUR	
				RATES	TOTAL	RATES	TOTAL
300.000	GENERAL						
310.000	MAIN						
310.1	Panel "MB" BUILDING ISO 300Amp T.P Main Breaker in a Cabinet	No	1				
311.000	MAIN SWITCHBOARDS						
311.101	24 Way T.P & N Panel 400Amp Bus "MDP" Complete with 1 - 300Amp T.P Main Breaker 1 - 125Amp T.P Sub Main Breaker 4 - 80Amp T.P Sub Main Breaker	No	1				
312.000	SUB-DISTRIBUTION PANELS						
312.101	60Way T.P & N Panel 125Amp Bus "SDP1" Complete with 1 - 80Amp T.P Main breaker 6 - 20Amp D.P breaker 12 - 15Amp D.P breaker 6 - 20amp S.P breaker 10 - 15Amp S.P breaker	No	1				
312.102	60Way T.P & N Panel 125Amp Bus "SDP2" Complete with 1 - 80Amp T.P Main breaker 6 - 20Amp D.P breaker 12 - 15Amp D.P breaker 6 - 20amp S.P breaker 10 - 15Amp S.P breaker	No	1				
312.103	32 Way T.P & N Panel 125Amp Bus "SDP3" Cpomplet with 1 - 80Amp T.P Main breaker 2 - 20Amp D.P breaker 4 - 15Amp D.P breaker 2 - 20Amp S.P breaker 5 - 15Amp S.P breaker	No	1				
312.104	32 Way T.P & N Panel 125Amp Bus "SDP4" Cpomplet with 1 - 80Amp T.P Main breaker 2 - 20Amp D.P breaker 4 - 15Amp D.P breaker 2 - 20Amp S.P breaker 5 - 15Amp S.P breaker	No	1				

313..000 TRUNKING AND SUPPORTS							
313..000 TRUNKINGS							
313.102	Trunking (H)100 x (W)100mm Thickness 2mm, Hot dip galvanized	M	270				
313.103	Accessories (Including Screws and Plugs Etc.. ..)	\$	1				
315.000 SUPPORTS AND/ HANGERS							
315.101	Unistrut 41x41x2.5mm, Hot dip galvanized	M	80				
315.102	Accessories						
	3/8" -16 Spring Strut Channel Nuts	No	80				
	3/8" -16 x 1Inch Grade 5 Coarse Hex Cap Screw	No	80				
316.000 BUSBAR AND LOW VOLTAGE CABLES							
317.000 POWER CABLES							
317.101	From MDPC to Panel "MB"4c x 240mm XLPE cable	M	320				
317.102	From Panel "MB" to Panel "SDP 1 4c x 25mm XLPE cable	M	63				
317.103	From Panel "MB" to Panel "SDP 2 4c x 25mm XLPE cable	M	63				
317.104	From Panel "MB" to Panel "SDP 3 4c x 25mm XLPE cable	M	130				
317.105	From Panel "MB" to Panel "SDP 4 4c x 25mm XLPE cable	M	130				
317.106	1c x 6mm P.V.C Cable	M	80				
317.108	14/3c AWG BX Cable	M	720				
317.109	14/1c AWG Copper wire	M	15000				
317.110	12/1c AWG copper cable	M	8000				
317.112	1c x 10mm Green Insulated Cable	M	400				
317.113	1c x 50mm Green Insulated Cable	M	15				
* Length/Quantities to be verified before purchase							
317.116	Accessories						
	20mm BX connector	No	500				
	15Amp Wire Connectors	No	760				
318.000 POWER SOCKETS AND LIGHT SWITCH							
POWER SOCKETS							
318.101	Duplex Receptacles Flush 20A, 125V, 2P, 3W Grounding, Nema # 5-20R	No	16				
318.102	Duplex Receptacles Flush 20A, 220V, 2P, 3W Grounding, Nema # 6-20R	No	16				
319.000 SWITCH							
319.101	Hard Use Specification Grade Switch , White 2-Pole 20A 120/277V Legend Pass and Seymour Cat# CSB20AC2W	No	32				

320.000 CONDUITS AND ACCESSORIES							
321.101	GI conduit 20.0mm (EMT, Thickness $\geq 1.45\text{mm}$)	M	1343				
321.102	GI conduit 25.0mm (EMT, Thickness $\geq 1.45\text{mm}$)	M	700				
321.103	2 X 4 Aluminum Junction Box	No	32				
321.104	4 X 4 Square Box Aluminum Junction Box	No	16				
321.105	DVXJ- Aluminum Box and cover	No	240				
321.106	Accessories						
	20mm EMT screw connectors	No	495				
	20mm EMT screw Copling	No	400				
	20mm EMT clamp	No	200				
	25mm EMT screw connectors	No	150				
	25mm EMT screw Copling	No	190				
	25mm EMT clamp	No	150				
* Length/Quantities to be verified before purchase							
322.000 LIGHTING							
323.000 WAREHOUSE + OUTDOOR LIGHTING							
323.101	Lithonia Compact Pro LED High Bay Fixture Cat # CPB30LMVOLT 50K 22Inch LED high Bay 30,398 Lumens 500k 120-277v 60hz	No	240				
323.102	Lithonia HC36 36" Chain Hangers	no	240				
323.103	Lithonia LED wall Pack Cat # TWR2 LED ALO SWW2 UVOLT PE DDBTXD 16,100 Lumens	No	32				
323.104	Lithonia LED Exit EXRG Cat # EXRG EL M6	No	18				
323.105	Lithonia Emergency Light Die Architectural Cat # AFB OEL DDBTXD UVOLT LTPN WT	No	16				
324.100 GROUNDING							
325.100 GROUNDING LAYOUT							
325.101	Grounding Details GD1						
	Grounding Rod, copper clad 3/4 x 10'-0" Long	No	40				
	Mold, Harger # GS-344/OP	No	2				
	Weld Metal Ultrashot US150	No	50				
	4/0 Bare Copper Conductor	M	440				
325.102	Grounding Details GD2						
	Test Weld Inspection Housing, Lightweight Polymer, Concrete ERICO Cata # T422A	No	2				
	Grounding Rod, copper clad 3/4 x 10'-0" Long	No	2				
	Grounding Connector, Burndy # GAR6429	No	2				
	Driving Sleeve, Cadweld # B-137-18	No	2				
	Grounding Details GD3						
	Burndy YAZ28TC12, Compression terminal 4/0 AWG CU, 1 - Hole, 1/2" Stud, Long Barrel	No	19				

**BILL OF QUANTITIES
ELECTRICAL WORKS**

325.103	1/2" x 2" Hex Head Bolt, Stainless Steel With 2 Flat Washer and 1 Lock Washer	No	19				
	1" P.V.C Schedule 40 Conduit	M	41				
	4/0 Bare Copper Conductor	M	209				
325.104	Grounding Details GD4						
	Mold, Harger # RT-4/04/01	No	2				
	Weld Metal Ultrashot US150	No	25				
325.105	Grounding Details GD5						
	Burndy YAZ28TC12, Compression terminal 4/0 AWG CU, 1 - Hole, 1/2" Stud, Long Barrel	No	32				
	1/2" x 2" Hex Head Bolt, Stainless Steel With 2 Flat Washer and 1 Lock Washer	No	16				
325.106	Ground Bar "MGBB" Harger Part No. GBI 14416C	No	1				
325.107	Costs associated with the production of As-Built drawings	\$					
326.108	Costs Associated with the Implementation And Adherence of All Safety Procedures , as explained and detailed in the specifications.	\$					
327.109	Costs Associated with the Production And Installation of Identification Tags for the Long Major Cables	\$					
328.110	Costs Associated with the Production And Installation of Laminated Sections Of The Electrical Schematic	\$					
328.120	Cost Associated with panel Labels						
329.100	SUM						
330.100	14% VAT						
331.100	PROJECT COST						