

Project : University of the Philippines Sports Complex Improvements of the Multi-Purpose Building
Reference No. :
Location : UP Mindanao Campus, Miatal Davao City
Duration: 300 C.D

BILL OF QUANTITIES

Item No.	Description	Qty	Unit	Material Cost	Equipment Cost	Labor Cost	Estimated Direct Cost	Mark-ups in Percent		Total Mark ups	VAT	Total Indirect Cost	Total Cost	Unit Cost
								OCM	Profit					
1.0	GENERAL REQUIREMENTS							-	-	-	-	-	-	-
A1	Offices, Shops, Storage and Workmens Accomodation for Contractor	10.00	Mo					-	-	-	-	-	-	-
	Field Office	10.00	Mo					-	-	-	-	-	-	-
	Temp. Bodega	10.00	Mo					-	-	-	-	-	-	-
B1	Medical and First aid Kit	10.00	Mo					-	-	-	-	-	-	-
C1	Permits and Clearances	1.00	lot					-	-	-	-	-	-	-
D1	Project Billboard/ Sign Board	10.00	Mo					-	-	-	-	-	-	-
	Project Billboard/ Sign Board (2 unit)	10.00	Mo					-	-	-	-	-	-	-
E1	Occupational Safety, Health Program & Activity	10.00	Mo					-	-	-	-	-	-	-
F1	Mobilization/Demobilization	1.00	lot					-	-	-	-	-	-	-
3.0	ELECTRICAL WORKS FOR THE IMPROVEMENT OF UP SPORTS MULTI-PURPOSE BUILDING 1 & 2							-	-	-	-	-	-	-
EE1	INSTALLATION OF NEW PANELBOARDS	16.00	Assembly					-	-	-	-	-	-	-
	ECB300-Enclosed Circuit Breaker @ 300A,3P-MCCB	1.00	assembly					-	-	-	-	-	-	-
	LPB1A-Lighting Panelboard 1A, 18Branches (see details SLG)	1.00	assembly					-	-	-	-	-	-	-
	PPB1A- Power Panelboard 1A 16Branches (see details SLG)	1.00	assembly					-	-	-	-	-	-	-
	LPB1B-Lighting Panelboard 1B, 18Branches (see details SLG)	1.00	assembly					-	-	-	-	-	-	-
	PPB1B- Power Panelboard 1B 16Branches (see details SLG)	1.00	assembly					-	-	-	-	-	-	-
	MPB1A Panel (Main: 400A, 3P, 8Branches)	1.00	assembly					-	-	-	-	-	-	-
	DP01A-Distribution Panel-01A (Main: 1-630A,3P & 3Branches)	1.00	assembly					-	-	-	-	-	-	-
	ECB32-Enclosed Circuit Breaker@32A w/ Nema 3R Enclosure	4.00	assembly					-	-	-	-	-	-	-
	ECB50-Enclosed Circuit Breaker@50A w/ Nema 3R Enclosure	4.00	assembly					-	-	-	-	-	-	-
	MDP01-Main Distribution Panel No.1 (Main: 1600A, 3P, 460V, 35KAIC-ACB , Branches: 8-250A, & 1-400A MCCB) Pre-Standing Panel	1.00	assembly					-	-	-	-	-	-	-
EE2	Intentionally Leave it Blank							-	-	-	-	-	-	-
	MISCELLANEOUS: INSTALLATION OF NEW PANELBOARDS AND DRY TYPE TRANSFORMER	1.00	lot					-	-	-	-	-	-	-
EE3	Fabricated Wire Duet w/ cover, 16in x 4in	12.00	LM					-	-	-	-	-	-	-
	Consumables	1.00	lot					-	-	-	-	-	-	-
EE4	TESTING AND COMMISSIONING OF EQUIPMENT (Dry Transformer)	1.00	Unit					-	-	-	-	-	-	-
EE5	SECONDARY POWER SUPPLY FROM MDPIA (@SUBSTATION BLDG.) TO DP1A (APPROX. 130m) TO MPB1A	130.00	Lin.m					-	-	-	-	-	-	-
	RSC Pipe (105mmØ)	24.00	lengths					-	-	-	-	-	-	-
	RSC Straight Connector (105mmØ)	36.00	pcs					-	-	-	-	-	-	-
	RSC Locknut & Bushing (105mmØ)	36.00	pcs					-	-	-	-	-	-	-
	HDPE Spiral Conduit (110mmØ)	1,296.00	LM					-	-	-	-	-	-	-
	HDPE Spiral Conduit Connector (110mmØ)	58.00	pcs					-	-	-	-	-	-	-
	HDPE Spacer (110mmØ)	1,080.00	pcs					-	-	-	-	-	-	-
	Concrete Encasement w/ Deformed Bars	156.00	LM					-	-	-	-	-	-	-
	Concrete Electrical Manhole- 1.20m(L)x 1.20m(W)x 1.20m(D)	5.00	pcs					-	-	-	-	-	-	-
	250mm ² THW Copper wire	720.00	m					-	-	-	-	-	-	-
	100mm ² TW Copper wire, Color-Green (for grounding wire)	240.00	m					-	-	-	-	-	-	-
	150mm ² THW Copper wire	72.00	m					-	-	-	-	-	-	-
	60mm ² TW Copper wire, Color-Green (for grounding wire)	24.00	m					-	-	-	-	-	-	-
	Dry Type Transformer, 3phase, 60hz (460V/230V) 225kVA-Step Down Transformer	1.00	unit					-	-	-	-	-	-	-
	Consumables	1.00	Lot					-	-	-	-	-	-	-
EE6	SECONDARY POWER SUPPLY FROM MPB1A TO LPB1A, PPB1A, LPB1B & PPB1B	90.00	Lin.m					-	-	-	-	-	-	-
	RSC Pipe (65mmØ)	19.20	lengths					-	-	-	-	-	-	-
	RSC Straight Connector (65mmØ)	14.40	pcs					-	-	-	-	-	-	-
	RSC Locknut & Bushing (65mmØ)	14.40	pcs					-	-	-	-	-	-	-
	HDPE Spiral Conduit (75mmØ)	432.00	LM					-	-	-	-	-	-	-
	HDPE Spiral Conduit Connector (75mmØ)	28.80	pcs					-	-	-	-	-	-	-
	HDPE Spacer (75mmØ)	288.00	pcs					-	-	-	-	-	-	-
	HDPE Spiral Conduit (110mmØ)	144.00	LM					-	-	-	-	-	-	-
	HDPE Spiral Conduit Connector (110mmØ)	14.40	pcs					-	-	-	-	-	-	-
	HDPE Spacer (110mmØ)	96.00	pcs					-	-	-	-	-	-	-
	Concrete Encasement w/ Deformed Bars	108.00	LM					-	-	-	-	-	-	-
	Concrete Electrical Manhole- 1.20m(L)x 1.20m(W)x 1.20m(D)	1.20	pcs					-	-	-	-	-	-	-
	60mm ² THW Copper wire	360.00	m					-	-	-	-	-	-	-
	30mm ² THW Copper wire	360.00	m					-	-	-	-	-	-	-
	14mm ² TW Copper wire, Color-Green (for grounding wire)	120.00	m					-	-	-	-	-	-	-
	8.0mm ² TW Copper wire, Color-Green (for grounding wire)	120.00	m					-	-	-	-	-	-	-
	Consumables	1.00	Lot					-	-	-	-	-	-	-
EE7	REWIRING WORKS FOR THE LIGHTING FIXTURES, CIRCUIT HOME-RUN AND POWER SUPPLY LINES FOR THE NEW AIR-CONDITIONING UNITS	1.00	lot					-	-	-	-	-	-	-
	3.5mm ² THHN Copper wire	72.00	roll					-	-	-	-	-	-	-
	5.5mm ² THHN Copper wire	24.00	roll					-	-	-	-	-	-	-
	15mm dia EMT Pipes w/ EMT Connector	1,440.00	length					-	-	-	-	-	-	-
	20mm dia EMT Pipes w/ EMT Connector	144.00	length					-	-	-	-	-	-	-
	15mm dia Flexible Metal Conduit (30m/roll)	12.00	roll					-	-	-	-	-	-	-
	15mm dia Metal Straight Connector	360.00	pcs					-	-	-	-	-	-	-
	15mm dia Fittings	1.00	lot					-	-	-	-	-	-	-
	20mm dia Fittings	1.00	lot					-	-	-	-	-	-	-
	Piping Hangers, Clamps and Supports	1.00	lot					-	-	-	-	-	-	-
	Boxes and Splicing Box	1.00	lot					-	-	-	-	-	-	-
	Check Up and Replace Damage Lighting Fixtures, Switches	1.00	lot					-	-	-	-	-	-	-
	Consumables	1.00	lot					-	-	-	-	-	-	-
EE8	CHECK UP AND REPLACE DAMAGE LIGHTING FIXTURES, SWITCHES	1.00	lot					-	-	-	-	-	-	-
	Check Up and Replace Damage Lighting Fixtures, Switches	1.00	lot					-	-	-	-	-	-	-

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								OCM	Profit					
EE9	RELOCATION OF POWER SUPPLY FOR THE STADIUM POLE LIGHTINGS TO MPB1A	200.00	Lin.M					-	-	-	-	-	-	-
	30mm2 THW Copper wire	720.00	m											
	8.0mm2 TW Copper wire	240.00	lm											
	HDPE Spiral Conduit (40mmØ)	240.00	LM											
	EMT Pipe (40mmØ)	48.00	length											
	EMT Straight Connector (40mmØ)	38.40	pcs											
	EMT Coupling (40mmØ)	38.40	pcs											
	Locknut & Bushing (40mmØ)	14.40	pcs											
	Concrete Encasement for the 40mm dia HDPE (Underground pipings)	240.00	LM											
	Pullbox (Nema 3R), 10inx 10inx 4in	4.80	pcs											
	ECB125-Enclosed Circuit Breaker w/ 125A,3P-MCCB	2.40	set											
	Piping Hanger & Supports	1.00	lot											
	Consumables	1.00	Lot											
	PERMANENT POWER SUPPLY LINES FROM DP01A FOR THE FIRE PUMP													
EE10	PROTECTION FACILITY	300.00	Lin.M					-	-	-	-	-	-	-
	60mm2 THHN Copper wire	360.00	m											
	14mm2 TW Copper wire	120.00	m											
	EMT Pipe (50mmdia)	36.00	length											
	EMT Coupling (50mmdia)	36.00	pcs											
	EMT LB Fitting (50mmdia)	4.80	pcs											
	EMT Elbow (50mmdia)	4.80	pcs											
	Locknut & Bushing (50mmdia)	14.40	pcs											
	Flexible Metal Conduit (50mmdia)	24.00	m											
	RSC Straight Connector (50mmdia)	7.20	pcs											
	Pullbox (12x12x4)	4.80	pcs											
	Fittings and Hangers	1.00	lot											
	Consumables	1.00	lot											
	SUPPLY AND INSTALLATION OF SOLAR FLOODLIGHTS FOR ADDITIONAL PERIMETER LIGHTINGS OF MULTI-PURPOSE 1 & 2	15.00	Sets					-	-	-	-	-	-	-
EE11	Solar Floodlight (500W Led) w/ PV Panels	15.00	sets											
	Solar Bracket & Support	1.00	lot											
	Consumables	1.00	lot											
EE12	REWIRING OF PAGING SYSTEM PUPPLY LINES & AUXILLIARY WIRINGS	1.00	Lot					-	-	-	-	-	-	-
	2x 2.0mm2 Duplex Shelded Wire	1,800.00	m											
	PVC Pipe (25mmdia)	720.00	length											
	PVC Pipe (50mmdia)	36.00	length											
	PVC Elbow (25mmdia)	72.00	pcs											
	PVC Elbow (50mmdia)	19.20	pcs											
	Locknut & Bushing (25mmdia)	360.00	pcs											
	Locknut & Bushing (50mmdia)	72.00	pcs											
	PVC Adopter (25mmdia)	360.00	m											
	PVC Adopter (50mmdia)	72.00	pcs											
	Pullbox (18x18x4)	28.80	pcs											
	Fittings and Hangers	1.00	lot											
	Consumables	1.00	lot											
EE13	134.40kWp GRID CONNECTED PV(SOLAR) POWERED SYSTEM, ROOFTOP MOUNTED	1.00	Lot					-	-	-	-	-	-	-
	Solar Mounting Support and Steel Railings	1	lot											
	Solar PV Modules (400Wp), Monocrystalline type	336	pc(s)											
	60kWp-Ongrid w/ Built In MPPT Controller 200Vdc to 1000Vdc	2	Unit											
	AC Cable Pipes and Wire Duct	1	lot											
	ACDP- AC Distribution Panel w/ power meter and Monitoring devices (Main: 400A,3P MCCB)	1	set											
	4mm2 DC (Solar) Cables, 1500Vdc capacity w/ DC Cable pipes/duct	4000	LM											
	DC Breakers with Surge Protection Devices @ Combiner Box (applicable if the Solar Inverters has no built-In Combiner Box w/ breakers & SPD)	2	sets											
	Grounding System, Including the Lightning Protection Device with Early Streaming Emission, 200kA max. current withstand and 110m radius protection	1	lot											
	Consumable Materials	1	lot											
PL1	UPGRADE OF ACCESS FOR PWD FROM RAMP TO INSTALLATION OF LIFT	2.00	Units					-	-	-	-	-	-	-
	Passenger Lift, 250kg Capacity (Hydraulic WheelChair Lift), Dimension (1420mm x 1350mm)	2.00	Units											
PL2	REMOVAL OF EXISTING CEILING AND REPAINTING OF EXPOSED STEEL TRUSSES AND SUPPORT @ STADIUM 1&2 SECOND FLOOR AREA EXCLUDING OFFICE, VIP AND MEDIA ROOM	1.00	LOT											
PL3	TESTING AND COMMISSIONING (OVERALL)	1.00	LOT											
	Grand Total Cost							-						