



Republic of the Philippines
DEPARTMENT OF SCIENCE AND TECHNOLOGY
Philippine Science High School – MIMAROPA Region Campus
 Barangay Rizal, Odiongan, Romblon 5505

DETAILED ENGINEERING ESTIMATES

COMPLETION OF DORMITORY BUILDING II
 BARANGAY RIZAL, ODIONGAN, ROMBLON

ITEM NO.	DESCRIPTION	Unit	QTY	UNIT COST	AMOUNT	TOTAL
(1)	(2)	(4)				
C.0	GENERAL REQUIREMENTS					
	1.0 Mobilization/ Demobilization	lot				
	2.0 Bonds and Insurances	lot				
	3.0 Temporary facilities for Contractor	lot				
	4.0 Health Safety Requirements	lot				
	5.0 As-Built Plan	lot				
	Sub Total: General Requirements					
C.1	ARCHITECTURAL WORKS					
	GROUND FLOOR					
	1.0 WALL PARTITION					
	a. Wall preparation for repainting works including patching works (Exterior wall)	sq.m				
	b. Skimcoating (Fire exit stair, electrical & mechanical room)	sq.m				
	2.0 FINISHES					
	2.1 Floor Finishes					
	a. Epoxy paint (hallway, lobby, main stairs and exit stairs)	sq.m				
	3.0 PAINTING WORKS					
	a. Elastomeric paint finish on plastered wall (exterior wall)	sq.m				
	b. Latex semi-gloss paint finish on plastered wall (Fire exit stair, electrical & mechanical room)	sq.m				
	c. Latex semi-gloss paint finish on plastered wall (VIP, reflection, pantry, isolation, and PWD rooms)	sq.m				
	d. Latex paint finish on slab soffit and ceiling (PWD, Isolation, VIP, Reflection, pantry, Mech&Elec. Rooms)	sq.m				
	4.0 OPENINGS					
	4.1 Doors					
	D-01 Double swing door in aluminum powder coated	set				
	D-02 Sliding door in aluminum powder coated paint	set				
	4.2 Windows					
	W-01 Window - in aluminum powder coated paint	set				
	W-02 Window - in aluminum powder coated paint	set				
	5.0 MISCELLANEOUS WORKS					
	a. Trench drain with aluminum trench cover (0.3m Width x 0.15m Depth)	lot				
	MEZZANINE FLOOR					
	1.0 WALL PARTITION					
	a. Wall preparation for repainting works including patching works (Exterior wall)	sq.m				
	b. Skimcoating (storage room)	sq.m				
	2.0 FINISHES					
	2.1 Floor Finishes					
	a. FF-1; 300x300mm Vitrified ceramic unglazed tiles, non-slip w/ tile grout & sealer on joints (common toilet)	sq.m				
	b. Epoxy paint (hallway and stairs)	sq.m				
	2.2 Wall Finishes					
	a. 300x300mm Homogenous tile, non-skid (common toilet)	sq.m				
	3.0 PAINTING WORKS					
	a. Elastomeric paint finish on plastered wall (exterior wall)	sq.m				
	b. Latex semi-gloss paint finish on plastered wall (rooms, toilet, and storage)	sq.m				

ITEM NO.	DESCRIPTION	Unit	QTY	UNIT COST	AMOUNT	TOTAL
(1)	(2)	(4)				
	c. Latex paint finish on slab soffit and ceiling (rooms, toilet, and storage)	sq.m				
	4.0 OPENINGS					
	4.1 Doors					
	D-03 800mm W x 2100mm H Solid panel door in varnish finish (kiln dry)	set				
	5.0 MISCELLANEOUS WORKS					
	a. Toilet Partitions with Door panel & accessories	m				
	b. Movable Partition with rails and roller	sq.m				
	c. New CHB Wall-100mm (4") CHB Walls Including plastering (storage room)	sq.m				
	SECOND FLOOR					
	1.0 WALL PARTITION					
	a. Wall preparation for repainting works including patching works (Exterior wall)	sq.m				
	b. Skimcoating (fire exit wall & stairs)	sq.m				
	2.0 FINISHES					
	2.1 Floor Finishes					
	a. FF-1; 600x600mm Vitrified ceramic unglazed tiles, non-slip w/ tile grout & sealer on joints - including removal of existing tiles	sq.m				
	b. Epoxy paint (hallway, main stair and exit stairs)	sq.m				
	3.0 PAINTING WORKS					
	a. Elastomeric paint finish on plastered wall (exterior wall)	sq.m				
	b. Latex semi-gloss paint finish on plastered wall (fire exit wall & stairs)	sq.m				
	4.0 MISCELLANEOUS WORKS					
	a. Concrete zocalo for existing toilet cubicle (including waterproofing)	lot				
	b. Clothesline at Balcony (1/2 in. dia.G.I. Pipe)	lot				
	THIRD FLOOR AND ROOF DECK					
	1.0 WALL PARTITION					
	a. Wall preparation for repainting works including patching works (Exterior wall)	sq.m				
	b. Skimcoating (fire exit wall & stairs)	sq.m				
	2.0 FINISHES					
	2.1 Floor Finishes					
	a. FF-1; 600x600mm Vitrified ceramic unglazed tiles, non-slip w/ tile grout & sealer on joints - including removal of existing tiles	sq.m				
	b. Epoxy paint (hallway, main stair and exit stairs)	sq.m				
	3.0 PAINTING WORKS					
	a. Elastomeric paint finish on plastered wall (exterior wall)	sq.m				
	b. Latex semi-gloss paint finish on plastered wall (fire exit wall & stairs)	sq.m				
	4.0 MISCELLANEOUS WORKS					
	a. Concrete zocalo for existing toilet cubicle (including waterproofing)	lot				
	b. Aluminum composite panel on steel framing (wall cladding)	sq.m				
	c. Grills at fire exit (including demolition of existing exterior wall)	sq.m				
	d. Aluminum Stair Nosing for all Steps (Main & Exit Stairs)	lot				
	e. Stainless Letters 0.5m Ht. - Building Name (Guiting-Guiting Residence Hall)	lot				
	f. Clothesline at Balcony (1/2 in. dia.G.I. Pipe)	lot				
	TOTAL AMOUNT ARCHITECTURE WORKS					
C.2	ELECTRICAL WORKS					
	All Floor Levels					
	A Lighting					
	1 Lighting Fixtures					
	Emergency Light	pcs				
	Exit Signs	pcs				
	Roof Deck					
	1 Lighting Fixtures					
	Floodlight (100 watts)	pcs				
	EXTERIOR					
	A Lighting and Power System					
	1 Conduit Pipes for roughing installation					
	1.1 Roughing-ins					

ITEM NO.	DESCRIPTION	Unit	QTY	UNIT COST	AMOUNT	TOTAL
(1)	(2)	(4)				
	1.1 PVC Pipe					
	20mm Ø	L				
	U Clamp 3/4"	pcs				
	2 Boxes					
	junction box w/ cover #16	pcs				
	utility box	pcs				
	3 Wires & Cables THHN stranded					
	3.5mm ²	m				
	4 Wiring Device					
	Two gang Switch	set				
	5 Lighting Fixtures					
	Recessed LED Down Light (11 watts)	set				
	Spotlight (30 watts)	set				
	5 Consumables	lot				
	Mezzanine Level (Storage Area)					
A	Lighting and Power System					
	1 Conduit Pipes for roughing installation					
	1.1 Roughing-ins					
	1.1 PVC Pipe					
	20mm Ø PVC moulding	pcs				
	pvc moulding adhesive	pcs				
	2 Boxes and Flexible Conduit					
	4x4 junction box w/ cover #16	pcs				
	utility box	pcs				
	3 Wires & Cables THHN stranded					
	3.5mm ²	m				
	4 Wiring Device					
	One gang Switch	set				
	5 Lighting Fixtures					
	Ceiling Receptacle	pcs				
	LED Bulb (10 watts)	pcs				
	6 Consumables	lot				
	Submete					
	1 Submeter	pc				
	TOTAL AMOUNT ELECTRICAL WORKS					
C.3	AUXILIARY WORKS					
	PA-BGM and CCTV					
	GROUND FLOOR LEVEL					
	1 ROUGHING INSTALTION					
	1.1 PVC Pipe					
	1.1a 15mm Ø	L				
	1.1b U clamp 1/2"	pcs				
	2 Boxes , Pull Box					
	2.2 4x4 junction box w/ cover #16	pcs				
	3 PA-BGM DEVICE AND EQUIPMENT, CCTV Device					
	3.1 PABGM System Management Amplifier w/ fabricated door & rac	unit				
	3.2 Remote Microphone	unit				
	3.3 Voice Announcement	unit				
	3.4 Digital Announcer Pre- Recorded Voice	unit				
	3.5 Volume Controller	unit				
	3.6 Audio Controller	unit				
	3.7 CCTV POE camera	unit				
	3.1.1 CCTV POE 16-port switch	unit				
	3.8 CAT6 UTP Cable for CCTV Camera	box				
	3.9 Testing and Commissioning	M-Hr				

ITEM NO.	DESCRIPTION	Unit	QTY	UNIT COST	AMOUNT	TOTAL
(1)	(2)	(4)				
	4 Consumables (Solvent , Gas , GI Wire, Tapes)	lot				
	SUB TOTAL AMOUNT OF GROUND FLOOR PA WORKS					
	Second Floor Level					
	1 ROUGHING INSTALTION					
	1.1 PVC Pipe					
	1.1a 15mm Ø	L				
	1.1b 40mm Ø	L				
	2 Boxes , Pull Box and Clamps					
	4x4 junction box w/ cover #16	pcs				
	4x4 square box with cover #16	pcs				
	U clamp 1/2"	pcs				
	U clamp 1 1/2"	pcs				
	3 PA-BGM Wire					
	#16 AWG	m				
	4 PA-BGM DEVICE AND EQUIPMENT					
	Installation of Speakers, Testing and Commissioning	M-Hr				
	5 Consumables (Solvent , Gas , GI Wire, Tapes)	lot				
	SUB TOTAL AMOUNT OF SECOND FLOOR PA WORKS					
	Third Floor Level					
	1 ROUGHING INSTALTION					
	1.1 PVC Pipe					
	1.1a 15mm Ø	L				
	1.1b 40mm Ø	L				
	2 Boxes , Pull Box and Flexible Conduit and Connectors					
	4x4 junction box w/ cover #16	pcs				
	4x4 square box with cover #16	pcs				
	U clamp 1/2"	pcs				
	U clamp 1 1/2"	pcs				
	3 PA-BGM Wire					
	#16 AWG	m				
	4 PA-BGM DEVICE AND EQUIPMENT					
	Installation of Speakers, Testing and Commissioning	M-Hr				
	5 Consumables (Solvent , Gas , GI Wire, Tapes)	lot				
	SUB TOTAL AMOUNT OF THIRD FLOOR LEVEL PA WORKS					
	TOTAL AMOUNT AUXILIARY WORKS					

C.4	PLUMBING AND SANITARY WORKS					
	GROUND FLOOR					
	1.0 Main Pipe Connection for water supply					
	1.1 GI Pipes Sch 40					
	40 mmØ x 6mtrs	pc/s				
	25 mmØ x 6mtrs	pc/s				
	1.2 Coupling					
	40 mmØ	pc/s				
	1.3 Tee Connector					
	40 mm x 40 mm Ø	pc/s				
	25 mmØ x 25 mmØ	pc/s				
	1.4 Elbow					
	40 mmØ	pc/s				
	1.5 Reducer					
	40mmØ x 32 mmØ	pc/s				
	32mmØ x 25 mmØ	pc/s				
	1.6 Nipple					
	32mmØ x 50mm	pc/s				
	1.7 Union					
	40mmØ	pc/s				
	25mmØ	pc/s				

ITEM NO.	DESCRIPTION	Unit	QTY	UNIT COST	AMOUNT	TOTAL
(1)	(2)	(4)				
	1.8 Gate Valve (Brass)					
	40mmØ	pc/s				
	25mmØ	pc/s				
	MEZZANINE FLOOR					
	1.0 Potable Lateral Water Lines & Roughing-in of Toilets					
	Appurtenances					
	Shower Head	set				
	Shower Valve(15mmØ)	set				
	Faucet(15mmØ)	set				
	Lavatory Wall Hung	set				
	Water Closet Tank Type	set				
	Urinal with Flush valve	set				
	Bidet	set				
	Water Line System					
	PPR Pipes PN 16					
	20 mmØ x 4mtrs	pc/s				
	Coupling					
	20 mmØ	pc/s				
	Equal Tee					
	20 mmØ x 20 mmØ	pc/s				
	Female Thread 90 Elbow					
	20 mmØ x 1/2	pc/s				
	Gate Valve					
	20 mmØ	pc/s				
	2.0 SANITARY AND WASTE SYSTEM					
	Pipes and Fittings					
	Pipes and Fittings					
	Pipes (PVC Series 1000)					
	100 mmø x 3 m	pc/s				
	50 mmø x 3 m	pc/s				
	Fittings					
	Elbow (45°)					
	100 mmø	pc/s				
	50 mmø	pc/s				
	Elbow (90°)					
	100 mmø	pc/s				
	50 mmø	pc/s				
	Wye					
	100 x 100 mmø	pc/s				
	100 x 50 mmø	pc/s				
	Clean Out					
	100 mmø	pc/s				
	P-Trap					
	50 mmø	pc/s				
	Floor Drain					
	50 mmø	pc/s				
	Hangers/Support	Lot				
	Consumables	Lot				
	Testing and Commissioning	Lot				
	Pumps					
	Water Pump (Shallow)2.0 Hp	set				
	Consumable Materials	Lot				
	Testing and Commissioning	Lot				
	TOTAL AMOUNT PLUMBING AND SANITARY WORKS					

ITEM NO.	DESCRIPTION	Unit	QTY	UNIT COST	AMOUNT	TOTAL
(1)	(2)	(4)				
C.5	FIRE PROTECTION SYSTEM					
	GROUND FLOOR					
	Tapping of Fire Water Line					
	Piping, valve and flange connection	Lot				
	TOTAL AMOUNT FIRE PROTECTION SYSTEM					
	TOTAL PROJECT AMOUNT					