

CAMPUS IMPROVEMENT FOR STUDENT SERVICES (REHABILITATION OF COMFORT ROOMS AND LAVATORY FACILITIES)

Angono Campus

DETAILED ESTIMATE

ITEM	WORK DESCRIPTION	QTY	UNIT	UNIT COST (P)		COST		TOTAL (P)
				MATERIAL	LABOR	MATERIAL	LABOR	
A.	REPAIR OF COMFORT ROOMS							
I.	MOBILIZATION/DEMOLITION							
II.	CLEANING							
1.00	Foreman	1.00	Lot					
5.00	Laborer	2.00	day					
		2.00	day					
III.	TILEWORKS							
a.	Chipping Works							
1.00	Foreman	1.00	Lot					
1.00	Skilled	3.00	days					
4.00	Laborer	3.00	days					
		3.00	days					
b.	Floor Tiles							
	0.30 x 0.30 m Unglazed Tiles	Area	=	35.21	m2			
	Tile Adhesive	411.00	pcs.					
	Tile Grout	6.00	bags					
	Cement	17.61	kgs					
	Sand	18.00	bags					
		1.32	m3					
	Removal/Installation							
1.00	Foreman	3.00	days					
2.00	Skilled	3.00	days					
4.00	Laborer	3.00	days					
c.	Wall Tiles/Counter							
	0.30 x 0.30 m Glazed Tiles	Area	=	189.77	m2			
	Tile Adhesive	2,214.00	pcs.					
	Tile Grout	32.00	bags					
	Cement	94.89	kgs					
	Sand	85.00	bags					
		7.12	m3					
	Removal/Installation							
1.00	Foreman	10.00	days					
3.00	Skilled	10.00	days					
7.00	Laborer	10.00	days					
IV.	CARPENTRY							
a.	Ceiling							
	12mm x 2' x 4' Acoustic FICEM Board Ceiling with Framing	Area	=	35.21	m2			
		62.00	pcs.					
	Removal/Installation							
1.00	Foreman	3.00	day					
1.00	Skilled	3.00	day					
4.00	Laborer	3.00	day					
	Scaffolding (36 sets)	5.00	days					
V.	DOORS							
a.	Panel Door (0.90x 2.10)	Unit	=	3.00				
	Panel Door (0.90x 2.10)	3.00	sets					
	L.P. Hinges (3 1/2 x 3 1/2)	9.00	pcs.					
	Door Lock Set	3.00	sets					
	CW Nails	2.00	kgs					
	Removal/Installation							
1.00	Foreman	1.00	day					
1.00	Skilled	1.00	day					
2.00	Laborer	1.00	day					
b.	Male & Female (Ground Floor)							
	Flush Door (0.60 x 1.80)	Unit	=	4.00				
	Flush Door (0.60 x 1.80)	4.00	sets					
	L.P. Hinges (3 1/2 x 3 1/2)	12.00	pcs.					
	Door Lock Set	4.00	sets					
	CW Nails	2.00	kgs					
	Removal/Installation							
1.00	Foreman	1.00	day					
2.00	Skilled	1.00	day					
3.00	Laborer	1.00	day					

VI.	JAMB								
	Jamb	# of BF	=	50.18	BF				
	CW Nails	50.18	BF						
		1.00	kgs.						
	Removal/Installation								
1.00	Foreman	1.00	day						
1.00	Skilled	1.00	day						
2.00	Laborer	1.00	day						
VII.	PAINTING								
a.	Ceiling/ Doors	Area	=	57.19	m2				
	Flat Wall Enamel	0.00	gals						
	Putty	3.00	gals						
	Quick Dry Enamel	9.00	gals						
	Paint Thinner	1.00	gals						
	Tinting Color (1/4 Lit)	3.00	cans						
	Scaffolding (36 sets)	3.00	days						
VIII.	PLUMBING WORKS								
a.	Water Closet w/ Fittings	1.00	Lot						
	Water Closet w/ Fittings	4.00	sets						
	Removal/Installation								
1.00	Foreman	2.00	days						
1.00	Skilled	2.00	days						
3.00	Laborer	2.00	days						
b.	Urinal	1.00	Lot						
	Urinal	3.00	pcs						
	Removal/Installation								
1.00	Foreman	1.00	day						
1.00	Skilled	1.00	day						
3.00	Laborer	1.00	day						
c.	Stainless Rail	1.00	Lot						
	Stainless Rail	2.00	units						
	Removal/Installation								
1.00	Foreman	1.00	day						
1.00	Skilled	1.00	day						
d.	Water Line	1.00	Lot						
	PVC Pipe 1/2" Ø	4.00	pcs						
	PVC Pipe 1/2" Ø	10.00	pcs						
	PVC Coupling 1/2" Ø	3.00	pcs						
	PVC Coupling 1/2" Ø	6.00	pcs						
	Coupling Red 1/2" x 1/2"	1.00	pcs						
	Tee Reducer 1/2" x 3/8"	8.00	pcs						
	PVC Tee 1/2" Ø	10.00	pcs						
	PVC Tee 1/2" Ø	2.00	pcs						
	PVC Elbow 1/2" Ø	13.00	pcs						
	PVC Elbow 1/2" Ø	1.00	pcs						
	Teflon Tape	3.00	rolls						
	PVC Cement	1.00	qrt.						
	Misc. Items	1.00	lot						
e.	Sewer Line	1.00	Lot						
	PVC Pipe 4" Ø	6.00	pcs						
	PVC Pipe 2" Ø	8.00	pcs						
	PVC Wye 4 x 4	3.00	pcs						
	PVC Wye 4 x 2	6.00	pcs						
	PVC Tee 4 x 4	4.00	pcs						
	PVC Tee 4 x 2	2.00	pcs						
	PVC P. Trap 2" Ø	4.00	pcs						
	PVC Elbow 4" Ø	8.00	pcs						
	PVC Elbow 2" Ø	7.00	pcs						
	PVC Coupling 4" Ø	4.00	pcs						
	PVC Coupling 2" Ø	7.00	pcs						
	PVC Clean Out 4" Ø	3.00	pcs						
	PVC Solvent Cement	1.00	qrt.						
	Misc. Items	1.00	lot						
f.	Septic Vault	1	Lot						
	6" CHB	440	pcs.						
	Cement	26	bags						

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Republic of the Philippines
UNIVERSITY OF RIZAL SYSTEM
Province of Rizal

University of Physical Facilities Development Office

CAMPUS IMPROVEMENT FOR STUDENT SERVICES (REHABILITATION OF COMFORT ROOMS AND LAVATORY FACILITIES)

Antipolo Campus
DETAILED ESTIMATE

ITEM	WORK DESCRIPTION	QTY	UNIT	UNIT COST (P)		COST		TOTAL (P)
				MATERIAL	LABOR	MATERIAL	LABOR	
A.	CONSTRUCTION OF 2x2m COMFORT ROOM							
I.	MOBILIZATION/DEMObILIZATION	1	Lot					
II.	SITE WORKS	1	Lot					
III.	SITE CLEARING	1	Lot					
1.00	Foreman	1	day					
5.00	Labor	1	day					
IV.	SOIL POISONING							
	Soil Poisoning Chemical	Area	m ²	2.96				
		1	liter					
V.	TERMITE TREATMENT							
	Anti-Termite Chemical	Area	=	1.77				
		1	gal.					
VI.	EXCAVATION							
	Excavation	Volume	m ³	0.89				
		0.89	m ³					
VII.	BACKFILL							
	Backfill	Volume	=	0.22				
		0.22	m ³					
VIII.	CONCRETE WORKS							
a.	Wall Footing (WF-1)	Volume	=	0.44				
	Cement	5	bags					
	Sand	0.22	m ³					
	Gravel (¾")	0.44	m ³					
	12mm Ø x 6.0m RSB Gr. 40	5	pcs.					
	10mm Ø x 6.0m RSB Gr. 40	4	pcs.					
	#16 G.I. Tie Wires	1	kgs.					
	Gravel Fill (G-1)	0.74	m ³					
b.	Slab on Fill	Volume	=	0.40				
	Cement	5	bags					
	Sand	0.2	m ³					
	Gravel (¾")	0.4	m ³					
	10mm Ø x 6.0m RSB Gr. 40	10	pcs.					
	#16 G.I. Tie Wires	1	kgs.					
	Gravel Fill (G-1)	0.2	m ³					
	Topping Works	Area	=	4.00				
	Cement	2	bags					
	Sand	0.15	m ³					
c.	Lintel Beam	Volume	=	0.24				
	Cement	3	bags					
	Sand	0.12	m ³					
	Gravel (¾")	0.24	m ³					
	12mm Ø x 6.0m RSB Gr. 40	3	pcs.					
	10mm Ø x 8.0m RSB Gr. 40	7	pcs.					
	#16 G.I. Tie Wires	1	kgs.					
	Form Plywood 1/4" Thk.	2	pcs.					
	Form Lumber / Scaffolding	126	BF					
	CW Nail	4	kgs.					
IX.	MASONRY WORKS							
a.	6" CHB	Area	m ²	19.82				
	6" CHB	271	pcs.					
	Cement	16	bags					
	Sand	1.67	m ³					
	10mm Ø x 6.0m RSB Gr. 40	17	pcs.					
	#16 G.I. Tie Wires	1	kgs.					
X.	PLASTERING	Area	m ²	39.64				

	Cement	15	bags						
	Sand	0.63	m ³						
	cornering	37.8	lm						
XI.	TILEWORKS								
a.	Floor Tiles	Area	=	4.00	m²				
	0.30 x 0.30 m Unglazed Tiles	50	pcs						
	Tile Adhesive	1	bags						
	Tile Grout	2	kgs						
b.	Wall Tiles	Area	=	12.00	m²				
	0.30 x 0.30 m Glazed Tiles	140	pcs						
	Tile Adhesive	3	bags						
	Tile Grout	6	kgs						
XII.	ROOF FRAMING	Area	=	10.24	m²				
	1.5mm x 2" x 6" x 6.0m C-purlins	2	pcs						
	2mm x 2" x 4" x 6.0m C-purlins	2	pcs						
	1.5mm x 2" x 3" x 6.0m C-purlins	2	pcs						
	3/16" x 1" x 6.0m Flat Bar	1	pcs						
	12mm Ø x 6.0m Plain Round Bar	1	pcs						
	2" x 2" x 3/16" x 6.0m angle bar								
	(purlin connector)	2	pcs						
	Welding Rod	3	pcs						
	Red Oxide Primer	6	gals.						
XIII.	LOUVER	1	Lot						
	2" x 4" x 6mm Tubular	2	pcs						
	2" x 4" x 1.5mm Tubular	2	pcs						
	Welding Rod	1	kgs						
XIV.	TINSMITHRY								
a.	Roofing	Length	=	10.27	Lm				
	#26 Pre-painted Roofing Sheet (Rib Type)	10.27	Lm						
	Texscrew	75	pcs						
	Vulcaseal	1	gal						
b.	Flashing	Length	=	13.36	Lm				
	#26 Pre-painted Flashing	13.36	Lm						
	Rivets	90	pcs						
	Vulcaseal	1	qnt						
XV.	CARPENTRY								
a.	Ceiling	Area	=	10.24	m²				
	Plywood 1/2" x 4' x 8'	4	pcs						
	CW Nail	2	kgs						
	Nailers/Hangers 2" x 2"	126	BF						
	Conc Nail 3"	1	kgs						
	Finishing Nail	2	kgs						
	Scaffolding (36 sets)	3	days						
XVI.	DOORS								
a.	Flush Door (0.60x 2.10)	Unit	=	1.00					
	Flush Door (0.60x 2.10)	1	sets						
	L.P. Hinges (3 1/2 x 3 1/2)	3	pcs						
	Door Lock Set	1	sets						
	CW Nails	1	kgs						
XVII.	JAMB	#of BF	=	15.74	BF				
	Jamb	15.74	BF						
	CW Nails	1.5	kgs						
XVIII.	WINDOW								
a.	Steel Casement Window	Area	=	7.75	ft²				
	1.20 x 0.60m Steel Casement Window	7.75	ft ²						
XIX.	PAINTING								
a.	CHB Wall	Area	=	39.64	m²				
	Latex Paint (Flat)	2	gals						
	Masonry Putty	1	gals						
	Latex Paint (gloss)	3	gals						

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CAMPUS IMPROVEMENT FOR STUDENT SERVICES (REHABILITATION OF COMFORT ROOMS AND LAVATORY FACILITIES)

Benangonan Campus

DETAILED ESTIMATE

ITEM	WORK DESCRIPTION	QTY	UNIT	UNIT COST (P)		COST		TOTAL (P)
				MATERIAL	LABOR	MATERIAL	LABOR	
A.	CONSTRUCTION OF 2x2m COMFORT ROOM							
I.	MOBILIZATION/DEMObILIZATION	1	Lot					
II.	SITE WORKS	1	Lot					
III.	SITE CLEARING	1	Lot					
1.00	Foreman	1	day					
5.00	Labor	1	day					
IV.	SOIL POISONING							
	Soil Poisoning Chemical	Area	=	2.96	m ²			
		1	liter					
V.	TERMITE TREATMENT							
	Anti-Termite Chemical	Area	=	1.77	m ²			
		1	gal.					
VI.	EXCAVATION							
	Excavation	Volume	=	0.89	m ³			
		0.89	m ³					
VII.	BACKFILL							
	Backfill	Volume	=	0.22	m ³			
		0.22	m ³					
VIII.	CONCRETE WORKS							
a.	Wall Footing (WF-1)							
	Cement	Volume	=	0.44	m ³			
	Sand	5	bags					
	Gravel (¾")	0.22	m ³					
	12mm Ø x 6.0m RSB Gr. 40	0.44	m ³					
	10mm Ø x 6.0m RSB Gr. 40	5	pcs.					
	#16 G.I. Tie Wires	4	pcs.					
		1	kgs.					
	Gravel Fill (G-1)	0.74	m ³					
b.	Slab on Fill							
	Cement	Volume	=	0.40	m ³			
	Sand	5	bags					
	Gravel (¾")	0.2	m ³					
	10mm Ø x 6.0m RSB Gr. 40	0.4	m ³					
	#16 G.I. Tie Wires	10	pcs.					
		1	kgs.					
	Gravel Fill (G-1)	0.2	m ³					
	Topping Works	Area	=	4.00	m ²			
	Cement	2	bags					
	Sand	0.16	m ³					
c.	Lintel Beam							
	Cement	Volume	=	0.24	m ³			
	Sand	3	bags					
	Gravel (¾")	0.12	m ³					
	12mm Ø x 6.0m RSB Gr. 40	0.24	m ³					
	10mm Ø x 6.0m RSB Gr. 40	3	pcs.					
	#16 G.I. Tie Wires	7	pcs.					
		1	kgs.					
	Form Plywood 1/4" Thk.	2	pcs.					
	Form Lumber / Scaffolding	126	BF					
	CW Nail	4	kgs.					
IX.	MASONRY WORKS							
a.	6" CHB							
	6" CHB	Area	=	19.82	m ²			
	Cement	271	pcs.					
	Sand	16	bags					
	10mm Ø x 6.0m RSB Gr. 40	1.07	m ³					
	#16 G.I. Tie Wires	17	pcs.					
		1	kgs.					
X.	PLASTERING							
	Cement	Area	=	39.64	m ²			
	Sand	15	bags					
		0.63	m ³					

	cornering	37.8	lm						
XII.	TILEWORKS								
a.	Floor Tiles	Area	=	4.00	m²				
	0.30 x 0.30 m Unglazed Tiles	50	pcs						
	Tile Adhesive	1	bags						
	Tile Grout	2	kgs						
b.	Wall Tiles	Area	=	12.00	m²				
	0.30 x 0.30 m Glazed Tiles	140	pcs						
	Tile Adhesive	3	bags						
	Tile Grout	6	kgs						
XII.	ROOF FRAMING	Area	=	10.24	m²				
	1.5mm x 2" x 6" x 6.0m C-purlins	2	pcs						
	2mm x 2" x 4" x 6.0m C-purlins	2	pcs						
	1.5mm x 2" x 3" x 6.0m C-purlins	2	pcs						
	3/16" x 1" x 6.0m Flat Bar	1	pcs						
	12mm Ø x 6.0m Plain Round Bar	1	pcs						
	2" x 2" x 3/16" x 6.0m angle bar	2	pcs						
	(purlin connector)	3	pcs						
	Welding Rod	3	pcs						
	Red Oxide Primer	6	gals						
XIII.	LOUVER	1	Lot						
	2" x 4" x 6mm Tubular	2	pcs						
	2" x 4" x 1.5mm Tubular	2	pcs						
	Welding Rod	1	kgs						
XIV.	TINSMITHRY								
a.	Roofing	Lm	=	10.27	Lm				
	#26 Pre-painted Roofing Sheet (Rib Type)	10.27	Lm						
	Texscrew	75	pcs						
	Vulcaseal	1	gal						
b.	Flashing	Length	=	13.36	Lm				
	#26 Pre-painted Flashing	13.36	Lm						
	Rivets	90	pcs						
	Vulcaseal	1	gal						
XV.	CARPENTRY								
a.	Ceiling	Area	=	10.24	m²				
	Plywood 1/2" x 4' x 8'	4	pcs						
	CW Nail	2	kgs						
	Nailers/Hangers 2" x 2"	126	BF						
	Conc. Nail 3"	1	kgs						
	Finishing Nail	2	kgs						
	Scaffolding (36 sets)	3	days						
XVI.	DOORS								
a.	Flush Door (0.60x 2.10)	Unit	=	1.00					
	Flush Door (0.60x 2.10)	1	sets						
	L.P. Hinges (3 1/4 x 3 1/4)	3	pcs						
	Door Lock Set	1	sets						
	CW Nails	1	kgs						
XVII.	JAMB	#of BF	=	15.74	BF				
	Jamb	15.74	BF						
	CW Nails	1.5	kgs						
XVIII.	WINDOW								
a.	Steel Casement Window	Area	=	7.75	ft²				
	1.20 x 0.60m Steel Casement Window	7.75	ft ²						
XIX.	PAINTING								
a.	CHB Wall	Area	=	39.64	m²				
	Latex Paint (Flat)	2	gals						
	Masonry Putty	1	gals						
	Latex Paint (gloss)	3	gals						
	Acce Color (1/2 Lit.)	1	cans						
	Concrete Neutralizer	1	gals						
	Scaffolding (36 sets)	5	days						

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Province of Rizal

University of Physical Facilities Development Office

CAMPUS IMPROVEMENT FOR STUDENT SERVICES (REHABILITATION OF COMFORT ROOMS AND LAVATORY FACILITIES)

Cavite Campus
DETAILED ESTIMATE

ITEM	WORK DESCRIPTION	QTY	UNIT	UNIT COST (P)		COST		TOTAL (P)
				MATERIAL	LABOR	MATERIAL	LABOR	
A.	REHABILITATION OF COMFORT ROOMS (1st to 4th Floor)							
I.	MOBILIZATION/DEMOBILIZATION	1	Lot					
II.	TILEWORKS							
a.	Chipping Works	1	Lot					
1.00	Foreman	5	days					
5.00	Laborer	5	days					
2.00	Chipping Gun	5	days					
b.	Floor Tiles	Area	=	86.46	m2			
	0.30 x 0.30 m Unglazed Tiles	1000	pcs					
	Tile Adhesive	15	bags					
	Tile Grout	43.23	kgs.					
	Cement	43	bags					
	Sand	3.55	m ³					
	Removal/Installation							
1.00	Foreman	8	days					
2.00	Skilled	8	days					
5.00	Laborer	8	days					
c.	Wall Tiles/Counter	Area	=	279.84	m2			
	0.30 x 0.30 m Glazed Tiles	3286	pcs.					
	Tile Adhesive	48	bags					
	Tile Grout	130.92	kgs.					
	Cement	122	bags					
	Sand	10.19	m ³					
	Removal/Installation							
1.00	Foreman	15	days					
4.00	Skilled	15	days					
5.00	Laborer	15	days					
III.	DOORS							
a.	Panel Door (0.90x 2.10)	Unit	=	5.00				
	Panel Door (0.90x 2.10)	8	sets					
	L.P. Hinges (3 1/2 x 3 1/2)	24	pcs					
	Door Lock Set	8	sets					
	CVW Nails	4	kgs.					
	Removal/Installation							
1.00	Foreman	5	day					
2.00	Skilled	5	day					
4.00	Laborer	5	day					
b.	Flush Door	Unit	=	16.00				
	Flush Door (0.90x 1.45)	16	sets					
	L.P. Hinges (3 1/2 x 3 1/2)	48	pcs.					
	Door Lock Set	16	sets					
	CVW Nails	4	kgs.					
	Removal/Installation							
1.00	Foreman	3	day					
2.00	Skilled	3	day					
4.00	Laborer	3	day					
IV.	JAMB	# of BF	=	168.26	BF			
	Jamb	168.26	BF					
	CVW Nails	4	kgs.					
	Removal/Installation							
1.00	Foreman	3	day					
1.00	Skilled	3	day					
2.00	Laborer	3	day					
V.	Ceiling	Area	=	82.09	m2			
	12mm x 2' x 4' Acoustic FICEM Board Ceiling with Framing	120	pcs					
	Removal/Installation							
1.00	Foreman	8	day					
2.00	Skilled	8	day					
5.00	Laborer	8	day					

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VIII	ELECTRICAL		
	3.5mm ² THWN	1	Lot
	2.0mm ² THWN	35	m
	20mm Ø PVC	20	m
	80mm Ø Porcelain Socket	6	pcs
	40w Inc. Bulb	2	pcs
	One gang switch w/ plate	2	pcs
	Utility Box deep type	2	pcs
	Junction Box w/ Cover (I.T.)	2	pcs
	20mm Ø Entrance Cap	1	pcs
	Screw Insulator	4	pcs
	Electrical Tape (Hig)	1	roll
	1 - Foreman	2	day
	4 - Laborers	2	day
IX	CONSTRUCTION SAFETY & HEALTH PROGRAM		
a.	Personal Protective Equipment		
1	Safety Officer	1	Lot
1	Health Personnel (Full Time)	58	hrs.
	Safety Helmet	100	days
	Safety Shoes	534	m.d.
	Safety Vest	534	m.d.
	Working Gloves	534	m.d.
	Raincoats	167	m.d.
	Dust Mask	508	m.d.
	Body Harness	117	m.d.
	Rubber Boots	9	m.d.
	Goggles	50	m.d.
b.	Temporary Facility		
	Ordinary Plywood 1/2" x 4' x 8'	1.00	Lot
	Coco Lumber	11	pcs
	Ord. Cor. Cl Sheets 0.40 x 10'	180	bdf.
	CWN	6	pcs
	Umbrella Nail	2	kgs.
		2	kgs.
c.	Safety Signages		
	Safety First (F-1) (4'x4')	2.00	pcs
	Tarpaulin	1.00	pc
	2"x2" Coco lumber	16	sq.ft.
		8	bdf.
	Safety First (F-1) (3'x2')	1.00	pc
	Tarpaulin	6	sq.ft.
	2"x2" Coco lumber	4	bdf.
X	BILLBOARD	1.00	pc
TOTAL DIRECT COST			

CAMPUS IMPROVEMENT FOR STUDENT SERVICES (REHABILITATION OF COMFORT ROOMS AND LAVATORY FACILITIES)

Cardona Campus

ITEM	WORK DESCRIPTION	QTY	UNIT	UNIT COST (P)		COST		TOTAL (P)
				MATERIAL	LABOR	MATERIAL	LABOR	
A.	CONSTRUCTION OF 5x9m COMFORT ROOM							
I.	MOBILIZATION/DEMObILIZATION	1	Lot					
II.	SITE WORKS	1	Lot					
III.	SITE CLEARING	1	Lot					
1.00	Foreman	2	day					
4.00	Labor	2	day					
IV.	SOIL POISONING	Area	=	63.37	m ²			
	Soil Poisoning Chemical	1	liters					
V.	TERMITE TREATMENT	Area	=	14.86	m ²			
	Anti-Termite Chemical	1	gal.					
VI.	EXCAVATION	Volume	=	20.41	m ³			
	Excavation	20.41	m ³					
VII.	BACKFILL	Volume	=	9.95	m ³			
	Backfill	9.95	m ³					
VIII.	CONCRETE WORKS							
a.	Footing (F-1)	Volume	=	3.20	m ³			
	Cement	31	bags					
	Sand	1.60	m ³					
	Gravel (¾")	3.20	m ³					
	12mm Ø x 6.0m RSB Gr. 40	24	pcs					
	#10 G.I. Tie Wires	2	kgs					
	Form Plywood 1/4" Thk	5	pcs					
	Form Lumber / Scaffolding	158	BF					
	CW Nail	6	kgs					
	Gravel Fill (G-1)	1.20	m ³					
b.	Column (C-1)	Volume	=	2.59	m ³			
	Cement	25	bags					
	Sand	1.30	m ³					
	Gravel (¾")	2.59	m ³					
	12mm Ø x 6.0m RSB Gr. 40	23	pcs					
	10mm Ø x 6.0m RSB Gr. 40	59	pcs					
	#16 G.I. Tie Wires	8	kgs					
	Form Plywood 1/4" Thk	15	pcs					
	Form Lumber / Scaffolding	819	BF					
	CW Nail	15	kgs					
c.	Wall Footing (WF-1)	Volume	=	4.29	m ³			
	Cement	41	bags					
	Sand	2.15	m ³					
	Gravel (¾")	4.29	m ³					
	10mm Ø x 6.0m RSB Gr. 40	45	pcs					
	#16 G.I. Tie Wires	2.5	kgs					
	Gravel Fill (G-1)	1.72	m ³					
d.	Wall Footing (WF-2)	Volume	=	0.26	m ³			
	Cement	3	bags					
	Sand	0.13	m ³					
	Gravel (¾")	0.26	m ³					
	10mm Ø x 6.0m RSB Gr. 40	6	pcs					
	#16 G.I. Tie Wires	1	kgs					
	Gravel Fill (G-1)	0.10	m ³					
e.	Slab on Fill	Volume	=	4.16	m ³			
	Cement	40	bags					
	Sand	2.08	m ³					
	Gravel (¾")	4.16	m ³					
	10mm Ø x 6.0m RSB Gr. 40	80	pcs					
	#16 G.I. Tie Wires	7	kgs					
	Gravel Fill (G-1)	4.16	m ³					

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	#26 Pre-painted Roofing Sheet (R)	75.19	Lm		
	Toxscrew	880	pcs		
	Vulcaseal	1	gal		
b.	Flashing	Length =	19.67 Lm		
	#26 Pre-painted Flashing	19.57	Lm		
	Rivets	236	pcs		
	Vulcaseal	1	gal		
XIV.	CARPENTRY				
a.	Ceiling	Area =	84.38 m2		
	Hardiflex ½" x 4' x 8'	30	pcs		
	Metal Furring	26	pcs		
	C-Furring (+ hanger)	19	pcs		
	Edger	16	pcs		
	C-Clip	189	pcs		
	Black Screw	2331	pcs		
	Rivets	756	pcs		
	Scaffolding (36 sets)	5	days		
b.	Airvent	1	Lot		
	12"x8' Straight PVC Airvent	3	pcs		
	12"x2' x2' Corner PVC Airvenl	6	pcs		
	Rivets	300	pcs		
	Mesh Wire	8	m		
XV.	CUBICLE PARTITION	Area =	19.15 m2		
	5' x 6' Phenolic Board (Laminated)	5	pcs		
	6' x 6' Phenolic Board (Laminated)	6	pcs		
	Top Bar	7	pcs		
	U-Bracket	6	pcs		
	Corner Frame	11	pcs		
	Support Leg	15	pcs		
	Door Lock	6	pcs		
	Partition Hinge	12	sets		
	Screw	62	pcs		
	CW Nails	2	kgs		
	Conc Nail	2	kgs		
XVI.	DOORS				
	Panel Door (0.90x2.10)	Unit =	3.00		
	Panel Door (0.90x2.10)	3	sets		
	L.P. Hinges (3½ x 3½)	12	pcs		
	Door Lock Set	3	sets		
	CW Nails	2	kgs		
XVII.	JAMB	#of BF =	50.18 BF		
	Jamb	50.18	BF		
	CW Nails	3	kgs		
XVIII.	WINDOW				
a.	Steel Casement Window	Area =	61.97 ft2		
	4 units of 2.40 x 0.60m Steel Case	61.97	ft²		
b.	Steel Casement Window	Area =	30.98 ft2		
	4 units of 1.20x0.60m Steel Cason	30.98	ft²		
XIX.	PAINING				
a.	CHB Wall	Area =	231.04 m2		
	Latex Paint (Flat)	17	gals		
	Masonry Putty	6	gals		
	Latex Paint (gloss)	29	gals		
	Acce Color (¼ Lit.)	6	cans		
	Concrete Neutralizer	3	gals		
	Scaffolding (36 sets)	5	days		
b.	Ceiling/ Doors	Area =	92.95 m2		
	Flat Wall Enamel	6	gals		
	Putty	3	gals		
	Quick Dry Enamel	9	gals		
	Paint Thinner	3	gals		
	Tinting Color (¼ Lit.)	3	cans		
	Scaffolding (36 sets)	3	days		

c.	Steel	Area	=	9.36	sqm
	Epoxy Primer	2	gal		
	Quick Dry Enamel	2	gal		
	Paint Thinner	1	bls		
XX.	PLUMBING WORKS				
a.	Water Closet w/ Fittings	7	sets		
b.	Urinal	3	sets		
c.	Lavatory w/ Fittings	6	sets		
d.	Paper Holder	1	pcs		
e.	Accessories	1	Lot		
	F.D. Strainer	2	pcs		
d.	Gate Valve	1	units		
	Check Valve	1	unit		
	Water Meter	1	unit		
	Stainless Rail	1	pc		
f.	Water Line	1	Lot		
	Esilon Blue 1/4" Ø	4	pcs		
	Esilon Blue 1/2" Ø	10	pcs.		
	PVC Coupling 1/4" Ø	3	pcs.		
	PVC Coupling 1/2" Ø	6	pcs.		
	Coupling Red 1/4" x 1/4"	1	pcs		
	Tee Reducer 1/4" x 3/8"	8	pcs.		
	PVC Tee 1/4" Ø	10	pcs.		
	PVC Tee 1/2" Ø	2	pcs.		
	PVC Elbow 1/4" Ø	13	pcs.		
	PVC Elbow 1/2" Ø	1	pcs.		
	Teflon Tape	3	rolls		
	PVC Cement	1	qrt		
	Misc. Items	1	lot		
g.	Sewer Line	1	Lot		
	PVC Pipe (Nellex) 4" Ø	6	pcs.		
	PVC Pipe 2" Ø	8	pcs.		
	PVC Wye 4 x 4	3	pcs		
	PVC Wye 4 x 2	6	pcs.		
	PVC Tee 4 x 4	4	pcs.		
	PVC Tee 4 x 2	2	pcs		

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CAMPUS IMPROVEMENT FOR STUDENT SERVICES (REHABILITATION OF COMFORT ROOMS AND LAVATORY FACILITIES)

Marang Campus

DETAILED ESTIMATE

DETAILED ESTIMATE								
ITEM	WORK DESCRIPTION	QTY	UNIT	UNIT COST (P)		COST		TOTAL (P)
				MATERIAL	LABOR	MATERIAL	LABOR	
A.	REHABILITATION OF 1ST FLOOR COMFORT ROOMS AT RIGHT WING, LEFT WING AND MAIN BUILDING							
I.	MOBILIZATION/DEMObILIZATION	1.00	Lot					
II.	DECLOGGING	1.00	Lot					
III.	CLEANING	1.00	Lot					
1.00	Foreman	3.00	days					
4.00	Laborer	3.00	days					
IV.	REPLACEMENT OF FIXTURES							
a.	Water Closet w/ Fittings	1.00	Lot					
	Water Closet w/ Fittings	8.00	sets					
	Removal/Installation							
1.00	Foreman	4.00	day					
2.00	Skilled	4.00	day					
4.00	Laborer	4.00	day					
b.	Urinal	1.00	Lot					
	Urinal	4.00	sets					
	Removal/Installation							
1.00	Foreman	2.00	day					
1.00	Skilled	2.00	day					
2.00	Laborer	2.00	day					
c.	Lavatory w/ Fittings	1.00	Lot					
	Lavatory w/ Fittings	5.00	sets					
	Removal/Installation							
1.00	Foreman	3.00	day					
1.00	Skilled	3.00	day					
2.00	Laborer	3.00	day					
d.	Paper Holder	1.00	Lot					
	Paper Holder	2.00	pcs.					
	Removal/Installation							
1.00	Skilled	1.00	day					
V.	TILEWORKS							
a.	Chipping Works	1.00	Lot					
1.00	Foreman	5.00	days					
4.00	Laborer	5.00	days					
2.00	Chipping Gun	5.00	days					
b.	Floor Tiles	Area	=	43.77	m2			
	0.30 x 0.30 m Unglazed Tiles	514.00	pcs.					
	Tile Adhesive	8.00	bags					
	Tile Grout	21.89	kgs					
	Cement	20.00	bags					
	Sand	1.64	m3					
	Removal/Installation							
1.00	Foreman	5.00	days					
2.00	Skilled	5.00	days					
2.00	Laborer	5.00	days					
c.	Wall Tiles	Area	=	125.74	m2			
	0.30 x 0.30 m Glazed Tiles	1,469.00	pcs.					
	Tile Adhesive	22.00	bags					
	Tile Grout	62.87	kgs					
	Cement	57.00	bags					
	Sand	4.72	m3					
	Removal/Installation							

	1.00	Foreman	8.00	day						
	3.00	Skilled	6.00	day						
	5.00	Laborer	8.00	day						
VI.	CARPENTRY									
a.	Ceiling		Area =	43.23 m²						
		12mm x 2' x 4' Acoustic FICEM Board Ceiling with Framing	64.00 pcs							
	Removal/Installation									
	1.00	Foreman	5.00	day						
	2.00	Skilled	5.00	day						
	3.00	Laborer	5.00	day						
		Scaffolding (36 sets)	5.00 days							
VII.	CUBICLE PARTITION									
		5' x 8' Phenolic Board (Laminated)	6.00 pcs		49.44 m²					
		6' x 8' Phenolic Board (Laminated)	10.00 pcs							
		Top Bar	4.00 pcs							
		U-Bracket	4.00 pcs							
		Corner Frame	16.00 pcs							
		Support Leg	19.00 pcs							
		Door Lock	10.00 pcs							
		Partition Hinge	19.00 sets							
		Screw	100.00 pcs							
		CW Nails	2.00 kgs							
		Finishing Nail	2.00 kgs							
		Conc. Nail	2.00 kgs							
VIII.	DOORS									
		Panel Door (0.90x 2.10)	Unit =	2.00						
		Panel Door (0.90x 2.10)	2.00 sets							
		L.P. Hinges (3½ x ¾)	6.00 pcs							
		Door Lock Set	2.00 sets							
		CW Nails	1.00 kgs							
	Removal/Installation									
	1.00	Foreman	1.00 day							
	1.00	Skilled	1.00 day							
	2.00	Laborer	1.00 day							
IX.	JAMB									
		Jamb	#of BF =	11.63 BF						
		CW Nails	1.00 kgs							
	Removal/Installation									
	1.00	Foreman	1.00 day							
	1.00	Skilled	1.00 day							
	2.00	Laborer	1.00 day							
X.	PAINING WORKS									
a.	Ceiling/ Doors		Area =	47.02 m²						
		Fiat Wall Enamel	2.00 gals							
		Putty	1.00 gals							
		Quick Dry Enamel	4.00 gals							
		Paint Thinner	1.00 gals							
		Tinting Color (¼ Lit.)	2.00 cans							
		Scaffolding (8-sets)	4.00 days							
b.	Steel		Area =	4.40 m²						
		Epoxy Primer	1.00 gal.							
		Quick Dry Enamel	1.00 gal							
		Paint Thinner	1.00 blts							
XI.	PLUMBING WORKS									
a.	Accessories		Lot							
		F.D. Strainer	2.00 pcs.							
		Hose Bibb	2.00 pc.							
		Gate Valve	1.00 units							
		Check Valve	1.00 unit							
		Water Meter	1.00 unit							
		Stainless Rail	4.00 units							

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C.	REHABILITATION OF 3RD FLOOR COMFORT ROOMS AT RIGHT WING, LEFT WING AND MAIN BUILDING				
I.	DEMOLITION WORKS				
1.00	Foreman	1.00	Lot		
1.00	Skilled	5.00	day		
3.00	Laborer	5.00	day		
1.00	Jackhammer	5.00	day		
II.	CLEANING				
1.00	Foreman	1.00	Lot		
4.00	Laborer	3.00	days		
III.	REPLACEMENT OF FIXTURES				
a.	Water Closet w/ Fittings				
	Water Closet w/ Fittings	1.00	Lot		
	Removal/Installation	8.00	sets		
1.00	Foreman	4.00	day		
2.00	Skilled	4.00	day		
3.00	Laborer	4.00	day		
b.	Urinal				
	Urinal	1.00	Lot		
	Removal/Installation	4.00	sets		
1.00	Foreman	2.00	day		
1.00	Skilled	2.00	day		
2.00	Laborer	2.00	day		
c.	Lavatory w/ Fittings				
	Lavatory w/ Fittings	1.00	Lot		
	Removal/Installation	5.00	sets		
1.00	Foreman	3.00	day		
1.00	Skilled	3.00	day		
2.00	Laborer	3.00	day		
d.	Paper Holder				
	Paper Holder	1.00	Lot		
	Removal/Installation	2.00	pcs.		
1.00	Skilled	1.00	day		
III.	TILEWORKS				
a.	Chipping Works				
1.00	Foreman	1.00	Lot		
4.00	Laborer	5.00	days		
2.00	Chipping Gun	5.00	days		
b.	Floor Tiles				
	0.30 x 0.30 m Unglazed Tiles	Area	#	43.77	m2
	Tile Adhesive	514.00	pcs.		
	Tile Grout	8.00	bags		
	Cement	21.89	kgs.		
	Sand	20.00	bags		
		1.64	m3		
	Removal/Installation				
1.00	Foreman	5.00	days		
2.00	Skilled	5.00	days		
2.00	Laborer	5.00	days		
c.	Wall Tiles				
	0.30 x 0.30 m Glazed Tiles	Area	#	125.74	m2
	Tile Adhesive	1,489.00	pcs.		
	Tile Grout	22.00	bags		
	Cement	62.87	kgs.		
	Sand	57.00	bags		
		4.72	m3		
	Removal/Installation				
1.00	Foreman	8.00	days		
3.00	Skilled	8.00	days		
5.00	Laborer	8.00	days		

IV. CARPENTRY							
a.	Ceiling	Area	=	43.23	m2		
	12mm x 2' x 4' Acoustic FICEM Board Ceiling with Framing	64.00	pcs.				
	Removal/Installation						
1.00	Foreman	5.00	day				
2.00	Skilled	5.00	day				
3.00	Laborer	5.00	day				
	Scaffolding (36 sets)	5.00	days				
V. DOORS							
	Panel Door (0.90x 2.10)	Unit	=	2.00			
	Panel Door (0.90x 2.10)	2.00	sets				
	L.P. Hinges (3½ x 3½)	6.00	pcs				
	Door Lock Set	2.00	sets				
	CW Nails	1.00	kgs.				
	Removal/Installation						
1.00	Foreman	1.00	day				
1.00	Skilled	1.00	day				
3.00	Laborer	1.00	day				
VI. JAMB		#of BF	=	11.63	BF		
	Jamb	11.63	BF				
	CW Nails	1.00	kgs				
	Removal/Installation						
1.00	Foreman	1.00	day				
1.00	Skilled	1.00	day				
2.00	Laborer	1.00	day				
VII. PAINTING WORKS							
a.	Ceiling/ Doors	Area	=	47.02	m2		
	Flat Wall Enamel	2.00	gals.				
	Putty	1.00	gals.				
	Quick Dry Enamel	4.00	gals.				
	Paint Thinner	1.00	gals.				
	Tinting Color (¼ Lit.)	2.00	cans				
	Scaffolding (8-sets)	4.00	days				
b.	Steel	Area	=	4.40	m2		
	Epoxy Primer	1.00	gal.				
	Quick Dry Enamel	1.00	gal.				
	Paint Thinner	1.00	bls				
VIII. CUBICLE PARTITION		Area	=	49.44	m2		
	5" x 6" Phenolic Board (Laminated)	8.00	pcs				
	6" x 6" Phenolic Board (Laminated)	10.00	pcs				
	Top Bar	4.00	pcs				
	U-Bracket	4.00	pcs				
	Corner Frame	16.00	pcs				
	Support Leg	19.00	pcs				
	Door Lock	10.00	pcs				
	Partition Hinge	19.00	sets				
	Screw	100.00	pcs				
	CW Nails	2.00	kgs.				
	Finishing Nail	2.00	kgs.				
	Conc. Nail	2.00	kgs.				
IX. PLUMBING WORKS							
a.	Accessories	1.00	Lot				
	F.D. Strainer	2.00	pcs				
	Hose Bibb	2.00	pc				
	Gate Valve	1.00	units				
	Check Valve	1.00	unit				
	Water Meter	1.00	unit				
	Stainless Rail	4.00	units				
	Mirror (0.45 x 0.60 m)	5.00	units				
b.	Water Line/Sewer Line	1.00	Lot				
	Eston Blue ½" Ø PVC Pipe	6.00	pcs.				

CAMPUS IMPROVEMENT FOR STUDENT SERVICES

(REHABILITATION OF

COMFORT ROOMS AND LAVATORY FACILITIES)

Pinto Campus

DETAILED ESTIMATE

ITEM	WORK DESCRIPTION	QTY	UNIT	UNIT COST (P)		COST		TOTAL (P)
				MATERIAL	LABOR	MATERIAL	LABOR	
A.	REPAIR OF COMFORT ROOMS							
I.	MOBILIZATION/DEMOBILIZATION							
II.	CLEANING							
1.00	Foreman	1.00	Lot					
5.00	Laborer	2.00	day					
		2.00	day					
III.	TILEWORKS							
a.	Floor Tiles	Area	=	38.39	m2			
	0.30 x 0.30 m Unglazed Tiles	450.00	pcs					
	Tile Adhesive	7.00	bags					
	Tile Grout	19.20	kgs					
	Cement	18.00	bags					
	Sand	1.44	m3					
	Removal/Installation							
1.00	Foreman	4.00	days					
2.00	Skilled	4.00	days					
4.00	Laborer	4.00	days					
b.	Wall Tiles/Counter	Area	=	133.69	m2			
	0.30 x 0.30 m Glazed Tiles	1,560.00	pcs					
	Tile Adhesive	23.00	bags					
	Tile Grout	66.05	kgs					
	Cement	60.00	bags					
	Sand	5.01	m3					
	Removal/Installation							
1.00	Foreman	8.00	days					
2.00	Skilled	8.00	days					
4.00	Laborer	8.00	days					
IV.	CARPENTRY							
a.	Ceiling	Area	=	38.39	m2			
	Hardiflex 1/2" x 4' x 8'	14.00	pcs					
	Metal Furring	15.00	pcs					
	C-Furring (+ hanger)	16.00	pcs					
	Edger	10.00	pcs					
	C-Clip	101.00	pcs					
	Black Screw	1,105.00	pcs					
	Rivets	1,050.00	pcs					
	Scaffolding (36 sets)	3.00	days					
	Removal/Installation							
1.00	Foreman	3.00	days					
1.00	Skilled	3.00	days					
3.00	Laborer	3.00	days					
XII.	CUBICLE PARTITION	Area	=	10.12	m2			
	5' x 6' Phenolic Board (Laminated)	4.00	pcs					
	6' x 6' Phenolic Board (Laminated)	3.00	pcs					
	Top Bar	2.00	pcs					
	U-Bracket	2.00	pcs					
	Corner Frame	10.00	pcs					
	Support Leg	11.00	pcs					
	Door Lock	5.00	pcs					
	Partition Hinge	10.00	sets					
	Screw	60.00	pcs					
	CW Nails	2.00	kgs					
	Conc. Nail	2.00	kgs					
V.	DOORS							
a.	Panel Door (0.90x 2.10)	Unit	=	4.00				
	Panel Door (0.90x 2.10)	4.00	sets					
	L.P. Hinges (3 1/2 x 3 1/2)	12.00	pcs					
	Door Lock Set	4.00	sets					
	CW Nails	2.00	kgs					
	Removal/Installation							
1.00	Foreman	1.00	day					
1.00	Skilled	1.00	day					
3.00	Laborer	1.00	day					

b.	Flush Door (0.70 x 1.80)	Unit	=	4.00	
	Flush Door (0.70 x 1.80)	4.00	sets		
	L.P. Hinges (3½ x 3½)	12.00	pcs		
	Door Lock Set	4.00	sets		
	CW Nails	2.00	kgs		
	Removal/Installation				
1.00	Foreman	1.00	day		
1.00	Skilled	1.00	day		
2.00	Laborer	1.00	day		
c.	Flush Door (0.60 x 1.80)	Unit	=	6.00	
	Flush Door (0.60 x 1.80)	6.00	sets		
	L.P. Hinges (3½ x 3½)	18.00	pcs		
	Door Lock Set	6.00	sets		
	CW Nails	2.00	kgs		
	Removal/Installation				
1.00	Foreman	1.00	day		
2.00	Skilled	1.00	day		
3.00	Laborer	1.00	day		
VI.	JAMB	#of BF		66.91	BF
	Jamb	66.91	BF		
	CW Nails	1.00	kgs		
	Removal/Installation				
	Foreman	1.00	day		
1.00	Skilled	1.00	day		
2.00	Laborer	1.00	day		
VII.	PAINTING				
	a. Ceiling/ Doors	Area	=	57.79	m2
	Flat Wall Enamel	3.00	gals		
	Putty	1.00	gals		
	Quick Dry Enamel	5.00	gals		
	Paint Thinner	1.00	gals		
	Tinting Color (¼ Lit.)	2.00	cans		
	Scaffolding (36 sets)	4.00	days		
b.	Steel	Area	=	43.20	m2
	Epoxy Primer	2.00	gal		
	Quick Dry Enamel	4.00	gal		
	Paint Thinner	1.00	blts		
VIII.	PLUMBING WORKS				
	a. Water Closet w/ Fittings	10.00	sets		
	Removal/Installation				
	Foreman	4.00	days		
	Skilled	4.00	days		
3.00	Laborer	4.00	days		
b.	Water Line	1.00	Lot		
	PVC Pipe ¼" Ø	4.00	pcs		
	PVC Pipe ½" Ø	10.00	pcs		
	PVC Coupling ¾" Ø	3.00	pcs		
	PVC Coupling ½" Ø	6.00	pcs		
	Coupling Red ¼" x ¼"	1.00	pcs		
	Tee Reducer ½" x 3/8"	8.00	pcs		
	PVC Tee ½" Ø	10.00	pcs		
	PVC Tee ¾" Ø	2.00	pcs		
	PVC Elbow ½" Ø	13.00	pcs		
	PVC Elbow ¾" Ø	1.00	pcs		
	Teflon Tape	3.00	rolls		
	PVC Cement	1.00	gal		
	Misc. Items	1.00	lot		
c.	Sewer Line	1.00	Lot		
	PVC Pipe 4" Ø	6.00	pcs		
	PVC Pipe 2" Ø	8.00	pcs		
	PVC Wye 4 x 4	3.00	pcs		
	PVC Wye 4 x 2	6.00	pcs		
	PVC Tee 4 x 4	4.00	pcs		
	PVC Tee 4 x 2	2.00	pcs		

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	Cement	5.00	bags						
	Sand	0.22	m ³						
	Gravel (¾")	0.44	m ³						
	12mm Ø x 6.0m RSB Gr. 40	5.00	pcs.						
	10mm Ø x 6.0m RSB Gr. 40	4.00	pcs.						
	#16 G.I. Tie Wires	1.00	kgs.						
	Gravel Fill (G-1)	0.74	m ³						
b.	Slab on Fill	Volume =	0.40	m3					
	Cement	4.00	bags						
	Sand	0.20	m ³						
	Gravel (¾")	0.40	m ³						
	10mm Ø x 6.0m RSB Gr. 40	10.00	pcs.						
	#16 G.I. Tie Wires	1.00	kgs.						
	Gravel Fill (G-1)	0.20	m ³						
	Topping Works	Area =	4.00	m2					
	Cement	2.00	bags						
	Sand	0.15	m ³						
c.	Lintel Beam	Volume =	0.24	m3					
	Cement	3.00	bags						
	Sand	0.12	m ³						
	Gravel (¾")	0.24	m ³						
	12mm Ø x 6.0m RSB Gr. 40	3.00	pcs.						
	10mm Ø x 6.0m RSB Gr. 40	7.00	pcs.						
	#16 G.I. Tie Wires	1.00	kgs.						
	Form Plywood 1/4" Thk.	2.00	pcs.						
	Form Lumber / Scaffolding	120.00	BF						
	CW Nail	4.00	kgs.						
VII.	MASONRY WORKS								
a.	6" CHB	Area =	19.82	m2					
	6" CHB	271.00	pcs.						
	Cement	16.00	bags						
	Sand	1.67	m ³						
	10mm Ø x 6.0m RSB Gr. 40	17.00	pcs.						
	#16 G.I. Tie Wires	1.00	kgs.						
VIII.	PLASTERING	Area =	39.64	m2					
	Cement	19.00	bags						
	Sand	0.63	m ³						
	cornering	37.80	lm						
IX.	TILEWORKS								
a.	Floor Tiles	Area =	4.00	m2					
	0.30 x 0.30 m Unglazed Tiles	47.00	pcs.						
	Tile Adhesive	1.00	bags						
	Tile Grout	2.00	kgs.						
b.	Wall Tiles	Area =	12.00	m2					
	0.30 x 0.30 m Glazed Tiles	140.00	pcs.						
	Tile Adhesive	3.00	bags						
	Tile Grout	6.00	kgs.						
X.	ROOF FRAMING	Area =	10.24	m2					
	1.5mm x 2" x 6' x 6.0m C-purlins	2.00	pcs.						
	2mm x 2" x 4" x 6.0m C-purlins	2.00	pcs.						
	1.5mm x 2" x 3' x 6.0m C-purlins	2.00	pcs.						
	3/16" x 1" x 6.0m Flat Bar	1.00	pcs.						
	12mm Ø x 6.0m Plain Round Bar	1.00	pcs.						
	2" x 2" x 3/16" x 6.0m angle bar (purlin connector)	2.00	pcs.						
	Welding Rod	3.00	pcs.						
	Red Oxide Primer	6.00	gals.						
XI.	LOUVER	1.00	Lot						
	2" x 4" x 6mm Tubular	1.00	pcs.						
	2" x 4" x 1.5mm Tubular	1.00	pcs.						
	Welding Rod	1.00	kgs.						
XII.	TINSMITHRY								
a.	Roofing	Lm =	10.27	Lm					
	#26 Pre-painted Roofing Sheet (Rib Type)	10.27	Lm						
	Texscrew	75.00	pcs.						

	Vulcaseal	1.00	gal				
b.	Flashing	Length	=	13.36	Lm		
	#26 Pre-painted Flashing	13.36	Lm				
	Rivets	82.00	pcs.				
	Vulcaseal	1.00	qrl				
XIII.	CARPENTRY						
a.	Ceiling	Area	=	10.24	m2		
	Plywood 1/2" x 4' x 8'	4.00	pcs.				
	CW Nail	25.00	kgs				
	Nailers/Hangers 2" x 2"	126.00	BF				
	Conc. Nail 3"	1.00	kgs.				
	Finishing Nail	2.00	kgs.				
	Scaffolding (36 sets)	3.00	days				
XIV.	DOORS						
a.	Flush Door (0.80x 2.10)	Unit	=	1.00			
	Flush Door (0.80x 2.10)	1.00	sets				
	L.P. Hinges (3 1/4 x 3 1/4)	5.00	pcs.				
	Door Lock Set	1.00	sets				
	CW Nails	1.00	kgs.				
XV.	JAMB	#of BF	=	15.74	BF		
	Jamb	15.74	BF				
	CW Nails	1.00	kgs.				
XVI.	WINDOW						
a.	Steel Casement Window	Area	=	7.75	ft2		
	1.20 x 0.60m Steel Casement Window	7.75	ft2				
XVII.	PAINTING						
a.	CHB Wall	Area	=	39.64	m2		
	Latex Paint (Flat)	2.00	gals				
	Masonry Putty	1.00	gals				
	Latex Paint (gloss)	3.00	gals.				
	Acce Color (1/4 Lit.)	1.00	cans				
	Concrete Neutralizer	1.00	gals				
	Scaffolding (36 sets)	3.00	days				
	Ceiling/ Doors	Area	=	11.50	m2		
	Flat Wall Enamel	1.00	gals				
	Putty	1.00	gals				
	Quick Dry Enamel	1.00	gals				
	Paint Thinner	2.00	gals				
	Tinting Color (1/4 Lit.)	2.00	cans				
	Scaffolding (36 sets)	3.00	days				
c.	Steel	Area	=	0.72	m2		
	Epoxy Primer	1.00	gal				
	Quick Dry Enamel	1.00	gal				
	Paint Thinner	1.00	bils				
XVIII.	PLUMBING WORKS						
a.	Water Closet w/ Fittings	1.00	sets				
b.	Lavatory w/ Fittings	1.00	sets				
c.	Paper Holder	1.00	pcs				
d.	Accessories	1.00	Lot				
	F.D. Strainer	1.00	pcs				
	Hose Bibb	1.00	pc.				
	Gate Valve	1.00	units				
	Check Valve	1.00	unit				
	Water Meter	1.00	unit				
	Stainless Rail	1.00	unit				
	Mirror (0.45 x 0.60m)	1.00	unit				
e.	Water Line/Sewer Line	1.00	Lot				
	PVC Pipe 1/2" Ø	5.00	pcs				
	PVC Tee 1/2" Ø	3.00	pcs.				
	PVC Elbow 1/2" Ø (Ealon Blue)	8.00	pcs				
	PVC Coupling 1/2" Ø	4.00	pcs.				
	PVC Coupling 1/2" Ø (treaded)	4.00	pcs				
	Teflon Tape	3.00	rolls				
	PVC Pipe 4" Ø	5.00	pcs				
	PVC Pipe 2" Ø	3.00	pcs				
	PVC Tee 4 x 4	3.00	pcs				
	PVC Wye 4 x 4	2.00	pcs				

	PVC Tee Reducer 4x2	1.00	pcs				
	PVC Wye Reducer 4x2	3.00	pcs				
	PVC Tee 3x2	1.00	pcs				
	PVC Wye 2x2	2.00	pcs				
	PVC Elbow 4" Ø	4.00	pcs				
	PVC Elbow 2" Ø	3.00	pcs				
	PVC Clean Out 4" Ø	2.00	pcs				
	PVC P-Trap 2" Ø	2.00	pcs				
	PVC Coupling 4" Ø	2.00	pcs				
	PVC Coupling 2" Ø	2.00	pcs				
	PVC Solvent Cement	1.00	can				
	Misc. Items	1.00	lot				
g.	Septic Vault (1.9 x 2.2 x 2.11)	1.00	Lot				
	6" CHB	245.00	pcs				
	Cement	22.00	bags				
	Sand	3.00	m³				
	Gravel	1.00	m²				
	12mm Ø x 6.0m RSB	17.00	pcs				
	10mm Ø x 6.0m RSB	17.00	pcs				
	G.I. Tie Wire	2.00	kgs				
	Plywood 1/4" Thk.	2.00	pcs				
	Form Lumber	74.00	BF				
	CW Nails	4.00	kgs				
	Excavation	8.82	m²				
XIX.	ELECTRICAL	1.00	Lot				
	3.5mm2 THWN	35.00	m				
	2.0mm2 THWN	20.00	m				
	20mm Ø PVC	6.00	pcs				
	90mm Ø Porcelain Socket	2.00	pcs				
	40w inc. bulb	2.00	pcs				
	One gang switch w/ plate	2.00	pcs				
	Utility Box deep type	2.00	pcs				
	Junction Box w/ Cover (D.T.)	2.00	pcs				
	20mm Ø Entrance Cap	1.00	pcs				
	Screw Insulator	4.00	pcs				
	Electrical Tape (Big)	1.00	roll				
	Misc. Items	1.00	lot				
	1 - Foreman	2.00	day				
	4 - Laborers	2.00	day				
XXX.	CONSTRUCTION SAFETY & HEALTH PROGRAM						
a.	Personal Protective Equipment	1.00	lot				
1.00	Safety Officer	20	hrs.				
1.00	Health Personnel (Full Time)	35	days				
	Safety Helmet	169	m.d.				
	Safety Shoes	169	m.d.				
	Safety Vest	170	m.d.				
	Working Gloves	169	m.d.				
	Raincoats	52	m.d.				
	Dust Mask	24	m.d.				
	Body Harness	19	m.d.				
	Rubber Boots	108	m.d.				
	Goggles	7	m.d.				
	TOTAL	-	-				
	TOTAL DIRECT COST	-	-				

Republic of the Philippines
UNIVERSITY OF RIZAL SYSTEM
Province of Rizal

University of Physical Facilities Development Office

CAMPUS IMPROVEMENT FOR STUDENT SERVICES (REHABILITATION OF COMFORT ROOMS AND LAVATORY FACILITIES)

Rodriguez Campus

ITEM	WORK DESCRIPTION	QTY	UNIT	DETAILED ESTIMATE		COST		TOTAL (P)
				UNIT COST (P)		MATERIAL	LABOR	
A.	CONSTRUCTION OF 5.00 x 9.00 COMFORT ROOM							
I.	MOBILIZATION/DEMOLITION	1	Lot					
II.	SITE WORKS	1	Lot					
III.	SITE CLEARING	1	Lot					
1.00	Foreman	2	day					
4.00	Labor	2	day					
IV.	SOIL POISONING	Area	=	63.37	m²			
	Soil Poisoning Chemical	1	liters					
V.	TERMITE TREATMENT	Area	=	14.86	m²			
	Anti-Termite Chemical	1	gal					
VI.	EXCAVATION	Volume	=	20.41	m³			
	Excavation	20.41	m ³					
VII.	BACKFILL	Volume	=	9.95	m³			
	Backfill	9.95	m ³					
VIII.	CONCRETE WORKS							
a.	Footing (F-1)	Volume	=	3.20	m³			
	Cement	31	bags					
	Sand	1.60	m ³					
	Gravel (¾")	3.20	m ³					
	12mm Ø x 6.0m RSB Gr. 40	24	pcs.					
	#16 G.I. Tie Wires	2	kgs.					
	Form Plywood 1/4" Thk.	5	pcs.					
	Form Lumber / Scaffolding	158	BF					
	CW Nail	6	kgs.					
	Gravel Fill (G-1)	1.20	m ³					
b.	Column (C-1)	Volume	=	2.59	m³			
	Cement	25	bags					
	Sand	1.30	m ³					
	Gravel (¾")	2.59	m ³					
	12mm Ø x 6.0m RSB Gr. 40	23	pcs.					
	10mm Ø x 6.0m RSB Gr. 40	59	pcs.					
	#16 G.I. Tie Wires	8	kgs.					
	Form Plywood 1/4" Thk.	13	pcs.					
	Form Lumber / Scaffolding	819	BF					
	CW Nail	15	kgs.					
c.	Wall Footing (WF-1)	Volume	=	4.29	m³			
	Cement	41	bags					
	Sand	2.15	m ³					
	Gravel (¾")	4.29	m ³					
	10mm Ø x 6.0m RSB Gr. 40	45	pcs.					
	#16 G.I. Tie Wires	2.5	kgs.					
	Gravel Fill (G-1)	1.72	m ³					
d.	Wall Footing (WF-2)	Volume	=	0.25	m³			
	Cement	3	bags					
	Sand	0.13	m ³					
	Gravel (¾")	0.25	m ³					
	10mm Ø x 6.0m RSB Gr. 40	6	pcs.					
	#16 G.I. Tie Wires	1	kgs.					

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b.	Wall Tiles/Counter	Area	=	57.36	m²				
	0.30 x 0.30 m Glazed Tiles	670	pcs.						
	Tile Adhesive	10	bags						
	Tile Grout	28.68	kgs.						
XII.	ROOF FRAMING	Area	=	87.17	m²				
	1½" x 1½" x ¼" x 6.0m angle bar	18	pcs.						
	1" x 1" x 3/16" x 6.0m angle bar	23	pcs.						
	2" x 2" x ¼" x 6.0m angular seat	21	pcs.						
	1.5mm x 2" x 6" x 6.0m C-purlins w	26	pcs.						
	4" x 8" x ¼" M.S. Plate	2	pcs.						
	4" x 8" x ½" M.S. Plate	1	pcs.						
	5/8" Ø x 12" Anchor Bolt	51	pcs.						
	12mm Ø x 6.0m Plain Round Bar	14	pcs.						
	3/16" x 1" x 6.0m Flat Bar	3	pcs.						
	Epoxy Primer	4	gals.						
	Lacquer Thinner	3	gals.						
XIII.	TINSMITHRY								
a.	Roofing	Length	=	75.19	Lm				
	#26 Pre-painted Roofing Sheet (Rib	75.19	Lm						
	Texscrew	680	pcs.						
	Vulcaseal	1	gal						
b.	Flashing	Length	=	19.57	Lm				
	#26 Pre-painted Flashing	19.57	Lm						
	Rivets	236	pcs.						
	Vulcaseal	1	gal						
XIV.	CARPENTRY								
a.	Ceiling	Area	=	84.36	m²				
	Hardiflex ½" x 4' x 8'	30	pcs.						
	Metal Furring	26	pcs.						
	C-Furring (+ hanger)	19	pcs.						
	Edger	16	pcs.						
	C-Clip	189	pcs.						
	Black Screw	2331	pcs.						
	Rivets	756	pcs.						
	Scaffolding (36 sets)	5	days						
b.	Airvent	1	Lot						
	12"x8' Straight PVC Airvent	3	pcs.						
	12"x2' x2' Cornert PVC Airvent	6	pcs.						
	Rivets	300	pcs.						
	Mesh Wire	8	m						
XV.	CUBICLE PARTITION	Area	=	19.15	m²				
	5' x 6' Phenolic Board (Laminated)	5	pcs.						
	6' x 6' Phenolic Board (Laminated)	6	pcs.						
	Top Bar	7	pcs.						
	U-Bracket	6	pcs.						
	Cornet Frame	11	pcs.						
	Support Leg	15	pcs.						
	Door Lock	6	pcs.						
	Partition Hinge	12	sets						
	Screw	62	pcs.						
	CW Nails	2	kgs.						
	Conc. Nail	2	kgs.						
XVI.	DOORS								
	Panel Door (0.90x2.10)	Unit	=	3.00					
	Panel Door (0.90x2.10)	3	sets						
	L.P. Hinges (3½ x 3½)	12	pcs.						
	Door Lock Set	3	sets						
	CW Nails	2	kgs.						

XVII.	JAMB	#of BF	=	50.18 BF				
	Jamb	50.18	BF					
	CW Nails	3	kgs.					
XVIII.	WINDOW							
a.	Steel Casement Window	Area	=	61.97 ft²				
	4 units of 2.40 x 0.60m Steel Caser	61.97	ft²					
b.	Steel Casement Window	Area	=	30.98 ft²				
	4 units of 1.20x0.60m Steel Casem	30.98	ft²					
XIX.	PAINTING							
a.	CHB Wall	Area	=	231.04 m²				
	Latex Paint (Flat)	17	gals.					
	Masonry Putty	6	gals.					
	Latex Paint (gloss)	29	gals.					
	Acre Color (¼ Lit.)	6	cans					
	Concrete Neutralizer	3	gals.					
	Scaffolding (36 sets)	5	days					
b.	Ceiling/ Doors	Area	=	92.95 m²				
	Flat Wall Enamel	6	gals.					
	Putty	3	gals.					
	Quick Dry Enamel	9	gals.					
	Paint Thinner	3	gals.					
	Tinting Color (½ Lit.)	3	cans					
	Scaffolding (36 sets)	3	days					
c.	Steel	Area	=	9.36 m²				
	Epoxy Primer	2	gal.					
	Quick Dry Enamel	2	gal					
	Paint Thinner	1	btls					
XX.	PLUMBING WORKS							
a.	Water Closet w/ Fittings	7	sets					
b.	Urinal	3	sets					
c.	Lavatory w/ Fittings	6	sets					
d.	Paper Holder	1	pcs.					
e.	Accessories	1	Lot					
	F.D. Strainer	2	pcs.					
d.	Gate Valve	1	units					
	Check Valve	1	unit					
	Water Meter	1	unit					
	Stainless Rail	1	pc					
f.	Water Line	1	Lot					
	Eston Blue ¾" Ø	4	pcs.					
	Eston Blue ½" Ø	10	pcs.					
	PVC Coupling ¾" Ø	3	pcs.					
	PVC Coupling ½" Ø	6	pcs.					
	Coupling Red ¾" x ¾"	1	pcs.					
	Tee Reducer ½" x 3/8"	8	pcs.					
	PVC Tee ½" Ø	10	pcs.					
	PVC Tee ¾" Ø	2	pcs.					
	PVC Elbow ½" Ø	13	pcs.					
	PVC Elbow ¾" Ø	1	pcs.					
	Teflon Tape	3	rolls					
	PVC Cement	1	qrt.					
	Misc. Items	1	lot					
g.	Sewer Line	1	Lot					
	PVC Pipe (Neltex) 4" Ø	6	pcs.					
	PVC Pipe (Neltex) 2" Ø	8	pcs.					
	PVC Wye (Neltex) 4 x 4	3	pcs.					
	PVC Wye (Neltex) 4 x 2	6	pcs.					
	PVC Tee (Neltex) 4 x 4	4	pcs.					
	PVC Tee (Neltex) 4 x 2	2	pcs.					

	PVC P-Trap (Neltex) 2" Ø	4	pcs.						
	PVC Elbow (Neltex) 4" Ø	8	pcs.						
	PVC Elbow (Neltex) 2" Ø	7	pcs.						
	PVC Coupling (Neltex) 4" Ø	4	pcs.						
	PVC Coupling (Neltex) 2" Ø	7	pcs.						
	PVC Clean Out 4" Ø	3	pcs.						
	PVC Solvent Cement	1	qrt.						
	Misc. Items	1	Lot						
h.	Septic Vault (WxLxH) (1.5 x 4.6 x 6" CHB)	1	Lot						
	Cement	449	bags						
	Sand	26	m³						
	Gravel	2.77	m³						
	12mm Ø x 6.0m RSB	1.04	pcs.						
	10mm Ø x 6.0m RSB	30	pcs.						
	G.I. Tie Wire	31	kgs.						
	Plywood 1/4" Thk.	2	pcs.						
	Form Lumber	3	BF						
	CW Nails	111	kgs.						
		5							
	Excavation	14.90	m³						
i.	Declogging	1	Lot						
XXI.	ELECTRICAL	1	Lot						
	Lighting & Power Outlets								
	3.5 mm² THWN	100	m.						
	20mmØ PVC	20	pcs.						
	15watts Led Lighting Fixture	9	pcs.						
	30A Main Circuit Breaker	1	unit						
	Two-Gang Switch (National)	1	pcs.						
	One-Gang Switch (National)	4	pc.						
	Junction Box (Deep Type) w/ Cover	11	pcs.						
	Utility Box (Deep Type)	7	pcs.						
	Electrical Tape (Big)	4	rolls						
	CWN	0.50	kgs.						
	#16 GI Wire	0.50	kgs.						
	5.5 mm² THWN	150	m.						
	25 mmØ RSC	1	pcs.						
	25 mmØ Entrance Cap	1	pc.						
	Misc. Items	1	lot						
XXII.	CONSTRUCTION SAFETY & HEALTH PROGRAM								
a.	Personal Protective Equipment		1.00	lot					
1	Safety Officer	58	hrs.						
1	Health Personnel (Full Time)	100	days						
	Safety Helmet	432	m.d.						
	Safety Shoes	393	m.d.						
	Safety Vest	456	m.d.						
	Working Gloves	458	m.d.						
	Raincoats	137	m.d.						
	Dust Mask	201	m.d.						
	Body Harness	131	m.d.						
	Rubber Boots	67	m.d.						
	Goggles	56	m.d.						
b.	Temp. Facilities		1.00	Lot					
	Temporary Facilities		1.00	Lot					
	Ordinary Plywood ½" x 4' x 8'	11	pcs.						
	Coco Lumber	180	bdf.						
	Ord. Corr. GI Sheets 0.40 x 10'	6	pcs.						
	CWN	2	kgs.						
	Umbrella Nail	2	kgs.						
c.	Safety Signages		5.00	pcs					
	Safety First (F-1) (4'x4')		1.00	pc					
	Tarpaulin	16	sq.ft.						
	2"x2" Coco lumber	8	bdf.						

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CAMPUS IMPROVEMENT FOR STUDENT SERVICES

(REHABILITATION OF

COMFORT ROOMS AND LAVATORY FACILITIES)

Tanay Campus

DETAILED ESTIMATE

ITEM	WORK DESCRIPTION	QTY	UNIT	UNIT COST (P)		COST		TOTAL (P)
				MATERIAL	LABOR	MATERIAL	LABOR	
A.	CONSTRUCTION OF 4x7m COMFORT ROOM							
I.	MOBILIZATION/DEMOLITION	1	Lot					
II.	SITE WORKS	1	Lot					
III.	SITE CLEARING	1	Lot					
1.00	Foreman	2	day					
5.00	Labor	2	day					
IV.	SOIL POISONING	Area	=	48.92	m ²			
	Soil Poisoning Chemical	1	liter					
V.	TERMITE TREATMENT	Area	=	13.60	m ²			
	Anti-Termite Chemical	1	gal.					
VI.	EXCAVATION	Volume	=	14.37	m ³			
	Excavation	14.37	m ³					
VII.	BACKFILL	Volume	=	7.16	m ³			
	Backfill	7.16	m ³					
VIII.	CONCRETE WORKS							
a.	Footing (F-1)	Volume	=	2.40	m ³			
	Cement	25	bags					
	Sand	1.2	m ³					
	Gravel (¾")	2.4	m ³					
	12mm Ø x 6.0m RSB Gr. 40	18	pcs.					
	#16 G.I. Tie Wires	2	kgs.					
	Form Plywood 1/4" Thk.	4	pcs.					
	Form Lumber / Scaffolding	130	BF					
	CW Nail	5	kgs.					
	Gravel Fill (G-1)	0.6	m ³					
b.	Column (C-1)	Volume	=	1.94	m ³			
	Cement	20	bags					
	Sand	1.00	m ³					
	Gravel (¾")	1.94	m ³					
	12mm Ø x 6.0m RSB Gr. 40	17	pcs.					
	10mm Ø x 6.0m RSB Gr. 40	45	pcs.					
	#16 G.I. Tie Wires	5	kgs.					
	Form Plywood 1/4" Thk.	10	pcs.					
	Form Lumber / Scaffolding	630	BF					
	CW Nail	12	kgs.					
c.	Wall Footing (WF-1)	Volume	=	2.99	m ³			
	Cement	30	bags					
	Sand	1.5	m ³					
	Gravel (¾")	2.99	m ³					
	12mm Ø x 6.0m RSB Gr. 40	18	pcs.					
	10mm Ø x 6.0m RSB Gr. 40	18	pcs.					
	#16 G.I. Tie Wires	3	kgs.					
	Gravel Fill (G-1)	1.2	m ³					
d.	Slab on Fill	Volume	=	2.64	m ³			
	Cement	25	bags					
	Sand	1.32	m ³					
	Gravel (¾")	2.64	m ³					
	10mm Ø x 6.0m RSB Gr. 40	52	pcs.					
	#16 G.I. Tie Wires	5	kgs.					
	Gravel Fill (G-1)	2.64	m ³					
	Topping Works	Area	=	26.37	m ²			
	Cement	12	bags					
	Sand	0.99	m ³					
e.	Roof Beam	Volume	=	0.72	m ³			

	Cement	10	bags						
	Sand	0.36	m ³						
	Gravel (1/4")	0.72	m ³						
	12mm Ø x 6.0m RSB Gr. 40	22	pcs.						
	10mm Ø x 6.0m RSB Gr. 40	49	pcs.						
	#16 G.I. Tie Wires	2	kgs						
	Form Plywood 1/4" Thk.	5	pcs.						
	Form Lumber / Scaffolding	315	BF						
	CW Nail	7	kgs						
IX.	MASONRY WORKS								
a.	6" CHB	Area	=	66.45	m²				
	6" CHB	900	pcs.						
	Cement	52	bags						
	Sand	5.52	m ³						
	10mm Ø x 6.0m RSB Gr. 40	47	pcs.						
	#16 G.I. Tie Wires	1	kgs						
b.	4" CHB	Area	=	31.96	m²				
	4" CHB	440	pcs.						
	Cement	26	bags						
	Sand	2.7	m ³						
	10mm Ø x 6.0m RSB Gr. 40	40	pcs.						
	#16 G.I. Tie Wires	1	kgs						
X.	PLASTERING	Area	=	130.90	m²				
	Cement	50	bags						
	Sand	2.09	m ³						
	cornering	254	lm						
XI.	TILEWORKS								
a.	Floor Tiles	Area	=	15.01	m²				
	0.30 x 0.30 m Glazed Tiles	176	pcs.						
	Tile Adhesive	3	bags						
	Tile Grout	7.51	kgs						
b.	Wall Tiles	Area	=	49.64	m²				
	0.30 x 0.30 m Unglazed Tiles	580	pcs.						
	Tile Adhesive	9	bags						
	Tile Grout	24.82	kgs						
XII.	ROOF FRAMING	Area	=	80.16	m²				
	1 1/2" x 1 1/2" x 1/4" x 6.0m angle bar	15	pcs.						
	1" x 1" x 3/16" x 6.0m angle bar	11	pcs.						
	2" x 2" x 1/4" x 6.0m angle bar	13	pcs.						
	1.5mm x 2" x 6" x 6.0m C-purlins w/ connectors	20	pcs.						
	4" x 8" x 1/2" M.S. Plate	2	pcs.						
	4" x 8" x 1/4" M.S. Plate	1	pcs.						
	5/8" Ø x 12" Anchor Bolt	26	pcs.						
	12mm Ø x 6.0m Plain Round Bar	9	pcs.						
	3/16" x 1" x 6.0m Flat Bar	3	pcs.						
	Epoxy Primer	3	gals.						
	Lacquer Thinner	2	gals.						
XIII.	TINSMITHRY								
a.	Roofing	Lm	=	62.04	Lm				
	#26 Pre-painted Roofing Sheet (Rib Type)	62.04	Lm						
	Texscrew	397	pcs.						
	Vulkaseal	1	gal						
b.	Flashing	Length	=	19.83	Lm				
	#26 Pre-painted Flashing	19.83	Lm						
	Rivets	222	pcs.						
	Vulkaseal	1	glt.						
XIV.	CARPENTRY								
a.	Ceiling	Area	=	60.16	m²				
	Hardiflex 1/2" x 4" x 8'	22	pcs.						
	Metal Furring	18	pcs.						
	C-Furring (+ hanger)	9	pcs.						
	Edger	14	pcs.						
	C-Clip	108	pcs.						
	Black Screw	1710	pcs.						
	Rivets	572	pcs.						
	Scaffolding (36 sets)	5	days						

b.	Airvent	Length	=	15.00	Lm
	12"x8" Straight PVC Airvent	3	pcs		
	12"x2" x2' Corner PVC Airvent	6	pcs		
	Rivets	300	pcs		
	Mesh Wire	8	m		
XV.	CUBICLE PARTITION	Area	=	10.12	m2
	5" x 6" Phenolic Board (Laminated)	4	pcs		
	6" x 6" Phenolic Board (Laminated)	1	pcs		
	Top Bar	2	pcs		
	U-Bracket	2	pcs		
	Corner Frame	10	pcs		
	Support Leg	11	pcs		
	Door Lock	5	pcs		
	Partition Hinge	10	sets		
	Screw	60	pcs		
	CW Nails	2	kgs.		
	Conc. Nail	2	kgs.		
XVI.	DOORS	Unit	=	3.00	
	Panel Door (0.90x2.10)	3	sets		
	L.P. Hinges (3 1/2 x 3 1/2)	9	pcs		
	Door Lock Set	3	sets		
	CW Nails	1	kgs.		
XVII.	JAMB	#of BF	=	63.96	BF
	Jamb	63.96	BF		
	CW Nails	1	kgs.		
XVIII.	WINDOW				
	a. Steel Casement Window	Area	=	15.49	ft2
	1 unit 2.40 x 0.60m Steel Casement Window	15.49	ft2		
b.	Steel Casement Window	Area	=	46.48	ft2
	6 units 1.20 x 0.60m Steel Casement Window	46.48	ft2		
XIX.	PAINTING				
	a. CHB Wall	Area	=	130.90	m2
	Latex Paint (Flat)	8	gals		
	Masonry Putty	2	gals		
	Latex Paint (gloss)	10	gals		
	Acce Color (1/4 Lit.)	2	cans		
	Concrete Neutralizer	1	gals		
b.	Ceiling/ Doors	Area	=	69.01	m2
	Flat Wall Enamel	3	gals.		
	Putty	1	gals		
	Quick Dry Enamel	5	gals.		
	Paint Thinner	1	gals.		
	Tinting Color (1/4 Lit.)	2	cans		
	Scaffolding (36 sets)	3	days		
c.	Steel	Area	=	5.76	m2
	Epoxy Primer	1	gal		
	Quick Dry Enamel	1	gal		
	Paint Thinner	1	bus		
XX.	PLUMBING WORKS				
	a. Water Closet w/ Fittings	0	sets		
	b. Urinal	2	sets		
	c. Lavatory w/ Fittings	5	sets		
	d. Paper Holder	1	pcs		
	e. Accessories	1	Lot		
	F.D. Strainer	3	pcs		
	Gate Valve	1	unit		
	Check Valve	1	unit		
	Water Meter	1	unit		
	Stainless Rail	1	unit		
f.	Water Line	1	Lot		
	PVC Pipe 1/2" Ø	4	pcs		
	PVC Pipe 1/2" Ø	10	pcs		
	PVC Coupling 1/2" Ø	3	pcs		

	PVC Coupling ½" Ø	6	pcs						
	Coupling Red ¾" x ½"	1	pcs						
	Tee Reducer ¼" x ¾"	8	pcs						
	PVC Tee ½" Ø	10	pcs						
	PVC Tee ¾" Ø	2	pcs						
	PVC Elbow ¼" Ø	13	pcs						
	PVC Elbow ¾" Ø	1	pcs						
	Teflon Tape	3	rolls						
	PVC Cement	1	qtl.						
	Misc. Items	1	lot						
g.	Sewer Line	1	Lot						
	PVC Pipe 4" Ø	6	pcs						
	PVC Pipe 2" Ø	8	pcs						
	PVC Wye 4 x 4	3	pcs						
	PVC Wye 4 x 2	6	pcs						
	PVC Tee 4 x 4	4	pcs						
	PVC Tee 4 x 2	2	pcs						
	PVC P-Trap 2" Ø	4	pcs						
	PVC Elbow 4" Ø	8	pcs						
	PVC Elbow 2" Ø	7	pcs						
	PVC Coupling 4" Ø	4	pcs						
	PVC Coupling 2" Ø	7	pcs						
	PVC Clean Out 4" Ø	3	pcs						
	PVC Solvent Cement	1	qtl.						
	Misc. Items	1	Lot						
h.	Septic Vault (WxLxH) (1.5 x 4.6 x 2.11)	1	Lot						
	6" CMB	449	pcs						
	Cement	26	bags						
	Sand	2.77	m³						
	Gravel	1.04	m³						
	12mm Ø x 6.0m RSB	30	pcs						
	10mm Ø x 6.0m RSB	31	pcs						
	G.I. Tie Wire	2	kgs.						
	Plywood ¼" Thk	3	pcs						
	Form Lumber	111	m²						
	CW Nails	5	kgs						
	Excavation	14.9	m³						
i.	Declogging	1	Lot						
XXI	ELECTRICAL	1	Lot						
	Lighting & Power Outlets								
	3.5 mm² THWN	100	m						
	20mmØ PVC	20	pcs						
	15watts Led Lighting Fixture	9	pcs						
	30A Main Circuit Breaker	1	unit						
	Two-Gang Switch (National)	1	pcs						
	One-Gang Switch (National)	4	pc.						
	Junction Box (Deep Type) w/ Cover	11	pcs						
	Utility Box (Deep Type)	7	pcs						
	Electrical Tape (Blg)	4	rolls						
	CWN	1	kgs						
	#16 GI Wire	1	kgs						
	5.5 mm² THWN	150	m.						
	25 mmØ RSC	1	pcs						
	25 mmØ Entrance Cap	1	pc.						
	Misc. Items	1	lot						
B.	CONSTRUCTION SAFETY & HEALTH PROGRAM								
a.	Personal Protective Equipment		1.00	lot					
1	Safety Officer	86	hrs						
1	Health Personnel (Full Time)	150	days						
	Safety Helmet	723	m.d.						
	Safety Shoes	877	m.d.						
	Safety Vest	733	m.d.						
	Working Gloves	733	m.d.						
	Raincoats	222	m.d.						
	Dust Mask	237	m.d.						
	Body Harness	182	m.d.						
	Rubber Boots	314	m.d.						
	Goggles	60	m.d.						
b.	Temporary Facility		1.00	lot					
	Ordinary Plywood ¼" x 4' x 8'	11	pcs.						
	Coco Lumber	180	bdf.						
	Ord. Corr. GI Sheets 0.40 x 10'	6	pcs.						
	CWN	2	kgs.						

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CAMPUS IMPROVEMENT FOR STUDENT SERVICES (REHABILITATION OF COMFORT ROOMS AND LAVATORY FACILITIES)

TOTAL ESTIMATE								
ITEM	WORK DESCRIPTION	QTY	UNIT	UNIT COST (P)		COST		TOTAL (P)
				MATERIAL	LABOR	MATERIAL	LABOR	
A.	REHABILITATION OF MALE COMFORT ROOM (1st Floor)							
I.	MOBILIZATION/DEMOLITION							
II.	DEMOLITION WORKS							
1.00	Foreman	1.00	Lot					
1.00	Skilled	2.00	day					
4.00	Laborer	5.00	day					
1.00	Jackhammer	5.00	day					
III.	TILEWORKS							
a.	Chipping Works							
1.00	Foreman	1.00	Lot					
1.00	Laborer	4.00	days					
2.00	Chipping Gun	4.00	days					
b.	Floor Tiles							
	0.30 x 0.30 m Glazed Tiles	Area	=	20.00	m2			
	Tile Adhesive	327.00	pcs					
	Tile Grout	5.00	bags					
	Cement	14.00	kg					
	Sand	12.00	bags					
		1.12	m3					
c.	Removal/Installation							
1.00	Foreman	3.00	days					
1.00	Skilled	3.00	days					
2.00	Laborer	3.00	days					
d.	Wall Tiles							
	0.30 x 0.30 m Unglazed Tiles	Area	=	37.80	m2			
	Tile Adhesive	441.00	pcs					
	Tile Grout	7.00	bags					
	Cement	18.90	kg					
	Sand	20.00	bags					
		2.00	m3					
e.	Removal/Installation							
1.00	Foreman	5.00	days					
1.00	Skilled	5.00	days					
4.00	Laborer	5.00	days					
IV.	CUBICLE PARTITION							
	Phenolic Board 5 x 6	Area	=	10.12	m2			
	Phenolic Board 6 x 6	4.00	pcs					
	Top Bar	3.00	pcs					
	U-Bracket	2.00	pcs					
	Corner Framer	2.00	pcs					
	Support Leg	10.00	pcs					
	Door Lock	11.00	pcs					
	Hinge	5.00	pcs					
	Nail	10.00	pcs					
	Gate Nail	2.00	kg					
	Screw	2.00	kg					
V.	DOORS							
a.	Panel Door (0.90x 2.10)	Unit	=	1.00				
	Panel Door (0.90x 2.10)	1.00	sets					
	L.P. Hinges (3/4 x 3 1/2)	1.00	pcs					
	Door Lock Set	1.00	sets					
	CW Nails	1.00	kg					
b.	Removal/Installation							
1.00	Foreman	1.00	day					
1.00	Skilled	1.00	day					
2.00	Laborer	1.00	day					
c.	Flush Door (0.60x 1.80)	Unit	=	3.00				
	Flush Door (0.60x 1.80)	3.00	sets					
	L.P. Hinges (3/4 x 3 1/2)	5.00	pcs					
	Door Lock Set	1.00	sets					
	CW Nails	2.00	kg					
d.	Removal/Installation							
1.00	Foreman	1.00	day					
1.00	Skilled	1.00	day					
3.00	Laborer	1.00	day					
VI.	JAMB							
	Jamb	50.39	BF			58.39	BF	
	CW Nails	1.00	kg					
e.	Removal/Installation							
1.00	Foreman	1.00	day					
1.00	Skilled	1.00	day					
3.00	Laborer	1.00	day					
VII.	PAINTING							
a.	CHB Wall							
	Masonry Putty	Area	=	31.95	m2			
	Latex Paint (60/50)	1.00	gals					
	Acem Color (1/2-1A)	3.00	gals					
	Acem Color (1/2-1A)	1.00	gals					
36.00	Brush/rolling	4.00	days					
b.	Ceiling/ Doors							
	Plat Wall Frame	Area	=	38.34	m2			
	Putty	2.00	gals					
	Putty	1.00	gals					

	Outlet Dry Enamel	3.00	day
	Paint Thinner	1.00	gals
	Tuffing Center (25 Lb.)	2.00	can
	Sealant (30 sets)	3.00	days
VIII	PLUMBING WORKS		
A	Water Closet w/ Fittings	1.00	Lol
	Water Closet w/ Fittings	3.00	sets
	Removal/Installation		
1.00	Foreman	3.00	day
1.00	Skilled	3.00	day
2.00	Laborer	3.00	day
B	Urinal	1.00	Lnl
	Urinal	3.00	sets
	Removal/Installation		
1.00	Foreman	1.00	day
1.00	Skilled	1.00	day
2.00	Laborer	1.00	day
C	Lavatory w/ Fittings	1.00	Lol
	Lavatory w/ Fittings	2.00	sets
	Removal/Installation		
1.00	Foreman	2.00	day
1.00	Skilled	2.00	day
2.00	Laborer	2.00	day
D	Stainless Rail	1.00	Lnl
	Stainless Rail	1.00	pcs
	Removal/Installation		
1.00	Skilled	1.00	day
E	Accessories	1.00	Lol
	F.D. Strainer	3.00	pcs
	Flare Bibb	1.00	pc
	Gate Valve	1.00	units
	Check Valve	1.00	unit
	Water Meter	1.00	unit
	Meter (0.45 x 0.60 in)	2.00	units
F	Water Line/Sewer Line	1.00	Lol
	Eaton Blue 1/2" Ø PVC Pipe	6.00	pcs
	PVC Tee 1/2" Ø (Eaton Blue)	3.00	pcs
	PVC Elbow 1/2" Ø (Eaton Blue)	8.00	pcs
	PVC Coupling 1/2" Ø (Eaton Blue)	4.00	pcs
	PVC Coupling 1/2" Ø (threaded)	4.00	pcs
	Teflon Tape	3.00	rolls
	PVC Pipe (Nottex) 4" Ø	5.00	pcs
	PVC Pipe (Nottex) 2" Ø	3.00	pcs
	PVC Tee (Nottex) 4 x 4	3.00	pcs
	PVC Wye (Nottex) 4 x 4	2.00	pcs
	PVC Tee Reducer (Nottex) 4x2	1.00	pcs
	PVC Wye Reducer (Nottex) 4x2	3.00	pcs
	PVC Tee (Nottex) 2x2	1.00	pcs
	PVC Wye (Nottex) 2x2	2.00	pcs
	PVC Elbow (Nottex) 4" Ø	4.00	pcs
	PVC Elbow (Nottex) 2" Ø	3.00	pcs
	PVC Clean Out 4" Ø	2.00	pcs
	PVC P-Trap (Nottex) 2" Ø	2.00	pcs
	PVC Coupling (Nottex) 4" Ø	2.00	pcs
	PVC Coupling (Nottex) 2" Ø	2.00	pcs
	PVC Solvent Cement	1.00	can
	Misc. Items	1.00	tot
IX	DECLOGGING	1.00	Lol
X	ELECTRICAL	1.00	Lol
	3.5mm2 THWLN	15.00	m
	2.0mm2 THWLN	20.00	m
	20mm Ø PVC	0.60	m
	50mm Ø Porcelain Socket	2.00	pcs
	40x Ins. bulb	2.00	pcs
	Ona gang switch w/ plate	2.00	pcs
	Utility Box drop type	2.00	pcs
	Junction Box w/ Cover (Ø 1")	2.00	pcs
	20mm Ø Entrance Cable	1.00	pcs
	Screw Insulator	4.00	pcs
	Electrical Tape (1kg)	1.00	roll
	1. Foreman	2.00	day
	3. Laborer	2.00	day
XI	CONSTRUCTION SAFETY & HEALTH PROGRAM		
A	Personal Protective Equipment	1.00	Lol
1.00	Safety Officer	14	hrs
	Health Personnel (Full Time)	24.00	days
	Safety Helmet	120.00	m.d.
	Safety Shoes	120.00	m.d.
	Safety Vest	120.00	m.d.
	Working Gloves	120.00	m.d.
	Raincoats	40.00	m.d.
	Dust Mask	122.00	m.d.
	Body Harness	20.00	m.d.
	Rubber Boots	2.00	m.d.
	Snagging	12.00	m.d.
B	Temporary Facility	1.00	Lol
	Ordinary Plywood 12' x 4' x 8'	11.00	pcs
	Coro Lumber	180.00	buft
	Out. Cor. GI Sheets 0-10 x 10'	0.00	pcs
	CWH	2.00	hrs
	Umbrella Nail	2.00	kms
C	Safety Signages	2.00	pcs

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	Description	Quantity	Unit	Total
VII.	PLUMBING WORKS			
a.	Water Closet w/ Fittings Water Closet w/ Fittings	1.00 3.00	Lot sets	
b.	Removal/Installation Foreman Skilled Laborer	3.00 1.00 2.00	day day day	
c.	Lavatory w/ Fittings Lavatory w/ Fittings	1.00 4.00	Lot sets	
d.	Removal/Installation Foreman Skilled Laborer	2.00 2.00 2.00	day day day	
e.	Stainless Rail Stainless Rail	1.00 1.00	Lot unit	
f.	Removal/Installation Skilled	1.00	day	
g.	Paper Holder Paper Holder	1.00 3.00	Lot pcs	
h.	Removal/Installation Skilled	1.00	day	
i.	Accessories F.D. Strainer Hose Bibb Gate Valve Check Valve Water Meter Nipple (Ø .45 x Ø .60 m)	1.00 3.00 1.00 1.00 1.00 8.00 5.00	Lot pcz pcz units unit unit units	
j.	Water Line/Sewer Line Eaton Blue ½" Ø PVC Pipe PVC Tee ½" Ø (Eaton Blue) PVC Elbow ¼" Ø (Eaton Blue) PVC Coupling ½" Ø (Eaton Blue) PVC Compung ¾" Ø Threaded Teflon Tape PVC Pipn (Nellex) 4" Ø PVC Pipe (Nellex) 2" Ø PVC Two (Nellex) 4 x 3 PVC Wye (Nellex) 4 x 4 PVC Tee Reducer (Nellex) 4x2 PVC Wye Reducer (Nellex) 4x2 PVC Tee (Nellex) 2x2 PVC Wye (Nellex) 2x2 PVC Elbow (Nellex) 4" Ø PVC Elbow (Nellex) 2" Ø PVC Clean Out 4" Ø PVC P-Trap (Nellex) 4" Ø PVC Chumling (Nellex) 2" Ø PVC Coupling (Nellex) 2" Ø PVC Solvent Cement Misc. Items	1.00 8.00 3.00 0.00 4.00 4.00 3.00 5.00 3.00 3.00 2.00 1.00 3.00 4.00 3.00 2.00 2.00 2.00 2.00 2.00 1.00 1.00	Lot pcz pcz pcz pcz pcz rolls pcz pcz pcz pcz pcz pcz pcz pcz pcz pcz pcz pcz can lot	
VIII.	ELECTRICAL	1.00	Lot	
a.	3.5mm² THWN 2.0mm² THWN 20mm Ø PVC 60mm Ø Porcelain Sucker 40w Inc bulb One gang switch w/ plate Utility Box drop box Junction Box w/ Cover (Ø 1") 20mm Ø Entrance Cap Screw Insulator Electrical Tape (Big)	35.00 20.00 6.00 2.00 2.00 2.50 2.00 2.00 1.50 4.00 1.00	m m pcz pcz pcz pcz pcz pcz pcz pcz roll	
b.	1 Foreman 3 Laborers	2.00 2.00	day day	
VIII.a.	CONSTRUCTION SAFETY & HEALTH PROGRAM Personal Protective Equipment	1.00	for	
a.	Safety Officer Health Personnel (Full Time) Safety Helmet Safety Shoes Safety Vest Working Gloves Raincoat Dust Mask Body Harness Rubber Boots Goggles	7.00 24.00 128.00 129.00 128.00 128.00 40.00 122.00 28.00 2.00 12.00	hrs. days in.d in.d in.d in.d in.d in.d in.d in.d in.d	
	TOTAL			
C.	REHABILITATION OF FEMALE COMFORT ROOM (2nd to 4th Floor)			
I.	TILEWORKS			
a.	Chipping Works Foreman Laborer Chipping Gun	1.00 4.00 4.00 4.00	Lot days days days	
b.	Floor Tiles 0.30 x 0.30 m Unglazed Tiles Tile Adhesive Grout Cement Sand	Area 327.00 2.00 14.00 12.00 1.12	sq ft kg kg bags m³	28.00

Remove/Installation																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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ITEM NO.		DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
		Gate Valve	1.00	unit		
		Cluck Valve	1.00	unit		
		Water Meter	1.00	unit		
		Minor (0.45 x 0.60 m)	5.00	units		
C.		Water Line/Sewer Line	1.00	lot		
		Elson Blue 1/2" Ø PVC Pipe	0.00	PCS		
		PVC Tee 1/2" Ø (Elson Blue)	3.00	PCS		
		PVC Elbow 1/2" Ø (Elson Blue)	0.00	PCS		
		PVC Coupling 1/2" Ø (Elson Blue)	4.00	PCS		
		PVC Coupling 1/2" Ø (threaded)	4.00	PCS		
		Teflon Tape	3.00	rolls		
		PVC Pipe (Nellix) 4" Ø	0.00	PCS		
		PVC Pipe (Nellix) 2" Ø	3.00	PCS		
		PVC Tee (Nellix) 4" x 4	4.00	PCS		
		PVC Wye (Nellix) 4" x 4	2.00	PCS		
		PVC Tee Reducer (Nellix) 4x2	1.00	PCS		
		PVC Wye Reducer (Nellix) 4x2	3.00	PCS		
		PVC Tee (Nellix) 2x2	1.00	PCS		
		PVC Wye (Nellix) 2x2	2.00	PCS		
		PVC Flange (Nellix) 4" Ø	4.00	PCS		
		PVC Elbow (Nellix) 2" Ø	3.00	PCS		
		PVC Clean Out 4" Ø	2.00	PCS		
		PVC P-Trap (Nellix) 2" Ø	2.00	PCS		
		PVC Coupling (Nellix) 4" Ø	2.00	PCS		
		PVC Coupling (Nellix) 2" Ø	2.00	PCS		
		PVC Solvent Cement	1.00	can		
		Minor Items	1.00	lot		
VII.		ELECTRICAL	1.00	lot		
		3.5mm2 THWLN	35.00	m		
		2.0mm2 THWLN	20.00	m		
		30mm Ø PVC	0.00	PCS		
		30mm Ø Porcelain Socket	2.00	PCS		
		40w Ins. bulb	2.00	PCS		
		One gang switch w/ plate	2.00	PCS		
		Utility Box dwp type	2.00	PCS		
		Junction Box w/ Cover (Ø T)	2.00	PCS		
		70mm Ø Entrance Cap	1.00	PCS		
		Screw Insulator	4.00	PCS		
		Emulsion Tape (Bq)	1.00	roll		
		1 Foreman	2.00	day		
		3 Laborers	2.00	day		
VIII.		CONSTRUCTION SAFETY & HEALTH PROGRAM				
A.		Personal Protective Equipment	1.00	lot		
1.00		Safety Officer	14	hrs		
1.00		Health Personnel (Full Time)	24.00	days		
		Safety Helmet	120.00	m.d		
		Safety Shoes	120.00	m.d		
		Safety Vest	120.00	m.d		
		Working Gloves	120.00	m.d		
		Raincoats	40.00	m.d		
		Dust Mask	120.00	m.d		
		Body Harness	20.00	m.d		
		Knicker Boots	5.00	m.d		
		Goggles	12.00	m.d		
		TOTAL				
		ADDITIONAL LEVEL				
		TOTAL DIRECT COST				