

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

**Rodriguez Campus**

ITEM	WORK DESCRIPTION	QTY	UNIT	UNIT COST (P)		COST		TOTAL (P)
				MATERIAL	LABOR	MATERIAL	LABOR	
				DETAILED ESTIMATE				
<b>A.</b>	<b>CONSTRUCTION OF 5.00 x 9.00 COMFORT ROOM</b>							
<b>I.</b>	<b>MOBILIZATION/DEMOLITION</b>	1	Lot					
<b>II.</b>	<b>SITE WORKS</b>	1	Lot					
<b>III.</b>	<b>SITE CLEARING</b>	1	Lot					
1.00	Foreman	2	day					
4.00	Labor	2	day					
<b>IV.</b>	<b>SOIL POISONING</b>	<b>Area</b>	<b>=</b>	<b>63.37</b>	<b>m<sup>2</sup></b>			
	Soil Poisoning Chemical	1	liters					
<b>V.</b>	<b>TERMITE TREATMENT</b>	<b>Area</b>	<b>=</b>	<b>14.86</b>	<b>m<sup>2</sup></b>			
	Anti-Termite Chemical	1	gal.					
<b>VI.</b>	<b>EXCAVATION</b>	<b>Volume</b>	<b>=</b>	<b>20.41</b>	<b>m<sup>3</sup></b>			
	Excavation	20.41	m <sup>3</sup>					
<b>VII.</b>	<b>BACKFILL</b>	<b>Volume</b>	<b>=</b>	<b>9.95</b>	<b>m<sup>3</sup></b>			
	Backfill	9.95	m <sup>3</sup>					
<b>VIII.</b>	<b>CONCRETE WORKS</b>							
<b>a.</b>	<b>Footing (F-1)</b>	<b>Volume</b>	<b>=</b>	<b>3.20</b>	<b>m<sup>3</sup></b>			
	Cement	31	bags					
	Sand	1.60	m <sup>3</sup>					
	Gravel (¾")	3.20	m <sup>3</sup>					
	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 <sup>3</sup>					
<b>b.</b>	<b>Column (C-1)</b>	<b>Volume</b>	<b>=</b>	<b>2.59</b>	<b>m<sup>3</sup></b>			
	Cement	25	bags					
	Sand	1.30	m <sup>3</sup>					
	Gravel (¾")	2.59	m <sup>3</sup>					
	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.					
<b>c.</b>	<b>Wall Footing (WF-1)</b>	<b>Volume</b>	<b>=</b>	<b>4.29</b>	<b>m<sup>3</sup></b>			
	Cement	41	bags					
	Sand	2.15	m <sup>3</sup>					
	Gravel (¾")	4.29	m <sup>3</sup>					
	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 <sup>3</sup>					
<b>d.</b>	<b>Wall Footing (WF-2)</b>	<b>Volume</b>	<b>=</b>	<b>0.25</b>	<b>m<sup>3</sup></b>			
	Cement	3	bags					
	Sand	0.13	m <sup>3</sup>					
	Gravel (¾")	0.25	m <sup>3</sup>					
	10mm Ø x 6.0m RSB Gr. 40	6	pcs.					
	#16 G.I. Tie Wires	1	kgs.					
	Gravel Fill (G-1)	0.10	m <sup>3</sup>					
<b>e.</b>	<b>Slab on Fill</b>	<b>Volume</b>	<b>=</b>	<b>4.16</b>	<b>m<sup>3</sup></b>			

	Cement	40	bags				
	Sand	2.08	m <sup>3</sup>				
	Gravel (¾")	4.16	m <sup>3</sup>				
	10mm Ø x 6.0m RSB Gr. 40	80	pcs.				
	#16 G.I. Tie Wires	7	kgs.				
	Gravel Fill (G-1)	4.16	m <sup>3</sup>				
	Topping Works	<b>Area</b>	<b>=</b>	<b>41.56</b>	<b>m<sup>2</sup></b>		
	Cement	19	bags				
	Sand	1.56	m <sup>3</sup>				
<b>f.</b>	<b>Beams (RB-1)</b>	<b>Volume</b>	<b>=</b>	<b>0.95</b>	<b>m<sup>3</sup></b>		
	Cement	10	bags				
	Sand	0.48	m <sup>3</sup>				
	Gravel (¾")	0.95	m <sup>3</sup>				
	12mm Ø x 6.0m RSB Gr. 40	28	pcs.				
	10mm Ø x 6.0m RSB Gr. 40	43	pcs.				
	#16 G.I. Tie Wires	4	kgs.				
	Form Plywood 1/4" Thk.	7	pcs.				
	Form Lumber / Scaffolding	441	BF				
	CW Nail	9	kgs.				
<b>g.</b>	<b>Concrete Counter</b>	<b>Volume</b>	<b>=</b>	<b>0.63</b>	<b>m<sup>3</sup></b>		
	Cement	6	bags				
	Sand	0.32	m <sup>3</sup>				
	Gravel	0.63	m <sup>3</sup>				
	12mm Ø x 6.0m RSB	3	pcs.				
	10mm Ø x 6.0m RSB	5	pcs.				
	#16 G.I. Tie Wires	1	kgs.				
	Form Plywood 1/4" Thk.	2	pcs.				
	Form Lumber / Scaffolding	63	BF				
	CW Nail	4	kgs.				
<b>IX.</b>	<b>MASONRY WORKS</b>						
<b>a.</b>	<b>6" CHB</b>	<b>Area</b>	<b>=</b>	<b>115.50</b>	<b>m<sup>2</sup></b>		
	6" CHB	1577	pcs.				
	Cement	92	bags				
	Sand	9.75	m <sup>3</sup>				
	10mm Ø x 6.0m RSB Gr. 40	95	pcs.				
	#16 G.I. Tie Wires	2	kgs.				
<b>b.</b>	<b>4" CHB</b>	<b>Area</b>	<b>=</b>	<b>3.34</b>	<b>m<sup>2</sup></b>		
	4" CHB	46	pcs.				
	Cement	3	bags				
	Sand	0.28	m <sup>3</sup>				
	10mm Ø x 6.0m RSB Gr. 40	10	pcs.				
	#16 G.I. Tie Wires	1	kgs.				
<b>X.</b>	<b>PLASTERING</b>	<b>Area</b>	<b>=</b>	<b>226.30</b>	<b>m<sup>2</sup></b>		
	Cement	82	bags				
	Sand	3.7	m <sup>3</sup>				
	cornering	232.48	lm				
<b>XI.</b>	<b>TILEWORKS</b>						
<b>a.</b>	<b>Floor Tiles/Slop Sink</b>	<b>Area</b>	<b>=</b>	<b>44.98</b>	<b>m<sup>2</sup></b>		
	0.30 x 0.30 m Unglazed Tiles	468	pcs.				
	Tile Adhesive	8	bags				
	Tile Grout	22.49	kgs.				
<b>b.</b>	<b>Wall Tiles/Counter</b>	<b>Area</b>	<b>=</b>	<b>57.36</b>	<b>m<sup>2</sup></b>		
	0.30 x 0.30 m Glazed Tiles	670	pcs.				
	Tile Adhesive	10	bags				
	Tile Grout	28.68	kgs.				



<b>XVIII.</b>	<b>WINDOW</b>							
<b>a.</b>	<b>Steel Casement Window</b>	<b>Area</b>	<b>=</b>	<b>61.97</b>	<b>ft2</b>			
	4 units of 2.40 x 0.60m Steel Caser	61.97	ft <sup>2</sup>					
<b>b.</b>	<b>Steel Casement Window</b>	<b>Area</b>	<b>=</b>	<b>30.98</b>	<b>ft2</b>			
	4 units of 1.20x0.60m Steel Casem	30.98	ft <sup>2</sup>					
<b>XIX.</b>	<b>PAINTING</b>							
<b>a.</b>	<b>CHB Wall</b>	<b>Area</b>	<b>=</b>	<b>231.04</b>	<b>m2</b>			
	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>b.</b>	<b>Ceiling/ Doors</b>	<b>Area</b>	<b>=</b>	<b>92.95</b>	<b>m2</b>			
	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					
<b>c.</b>	<b>Steel</b>	<b>Area</b>	<b>=</b>	<b>9.36</b>	<b>m2</b>			
	Epoxy Primer	2	gal.					
	Quick Dry Enamel	2	gal					
	Paint Thinner	1	btls					
<b>XX.</b>	<b>PLUMBING WORKS</b>							
<b>a.</b>	<b>Water Closet w/ Fittings</b>	7	sets					
<b>b.</b>	<b>Urinal</b>	3	sets					
<b>c.</b>	<b>Lavatory w/ Fittings</b>	6	sets					
<b>d.</b>	<b>Paper Holder</b>	1	pcs.					
<b>e.</b>	<b>Accessories</b>	1	<b>Lot</b>					
	F.D. Strainer	2	pcs.					
<b>d.</b>	<b>Gate Valve</b>	1	units					
	Check Valve	1	unit					
	Water Meter	1	unit					
	Stainless Rail	1	pc					
<b>f.</b>	<b>Water Line</b>	1	<b>Lot</b>					
	Eslon Blue ¾" Ø	4	pcs.					
	Eslon Blue ½" Ø	10	pcs.					
	PVC Coupling ¾" Ø	3	pcs.					
	PVC Coupling ½" Ø	6	pcs.					
	Coupling Red ¾" x ½"	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					
<b>g.</b>	<b>Sewer Line</b>	1	<b>Lot</b>					
	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				
<b>h.</b>	<b>Septic Vault (WxLxH) (1.5 x 4.6 x</b>	<b>1</b>	<b>Lot</b>				
	6" CHB	449	pcs.				
	Cement	26	bags				
	Sand	2.77	m <sup>3</sup>				
	Gravel	1.04	m <sup>3</sup>				
	12mm Ø x 6.0m RSB	30	pcs.				
	10mm Ø x 6.0m RSB	31	pcs.				
	G.I. Tie Wire	2	kgs.				
	Plywood 1/4" Thk.	3	pcs.				
	Form Lumber	111	BF				
	CW Nails	5	kgs.				
	Excavation	14.90	m <sup>3</sup>				
<b>i.</b>	<b>Declogging</b>	<b>1</b>	<b>Lot</b>				
<b>XXI.</b>	<b>ELECTRICAL</b>	<b>1</b>	<b>Lot</b>				
	Lighting & Power Outlets						
	3.5 mm <sup>2</sup> 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 mm <sup>2</sup> THWN	150	m.				
	25 mmØ RSC	1	pcs.				
	25 mmØ Entrance Cap	1	pc.				
	Misc. Items	1	lot				
<b>XXII.</b>	<b>CONSTRUCTION SAFETY &amp; HEALTH PROGRAM</b>						
<b>a.</b>	<b>Personal Protective Equipment</b>		<b>1.00</b>	<b>lot</b>			
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	87	m.d.				
	Goggles	56	m.d.				
<b>b.</b>	<b>Temp. Facilities</b>		<b>1.00</b>	<b>Lot</b>			
	<b>Temporary Facilities</b>		<b>1.00</b>	<b>Lot</b>			
	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.				
	Umbrella Nail	2	kgs.				
<b>c.</b>	<b>Safety Signages</b>		<b>5.00</b>	<b>pcs</b>			
	<b>Safety First (F-1) (4'x4')</b>		<b>1.00</b>	<b>pc</b>			
	Tarpaulin	16	sq.ft.				
	2"x2" Coco lumber	8	bdf.				
	<b>Safety First (F-1) (3'x2')</b>		<b>4.00</b>	<b>pcs</b>			
	Tarpaulin	24	sq.ft.				
	2"x2" Coco lumber	16	bdf.				
<b>XXIII.</b>	<b>BILLBOARD</b>		<b>1.00</b>	<b>pc</b>			

<b>B.</b>	<b>CONSTRUCTION OF SEPTIC VAULT</b>						
	<b>Septic Vault (1.9 x 2.2 x 2.11)</b>	<b>1</b>	<b>Lot</b>				
	6" CHB	245	pcs.				
	Cement	22	bags				
	Sand	3	m <sup>3</sup>				
	Gravel	1	m <sup>3</sup>				
	12mm Ø x 6.0m RSB	17	pcs.				
	10mm Ø x 6.0m RSB	17	pcs.				
	G.I. Tie Wire	2	kgs.				
	Plywood 1/4" Thk.	2	pcs.				
	Form Lumber	74	BF				
	CW Nails	4	kgs.				
	Excavation	8.82	m <sup>3</sup>				