

[Bidder's Letterhead]

[Date]

To: Tarlac State University
 Re: Invitation to Bid No.

BILL OF QUANTITIES

Item No.	Work Description	Materials		Work Item		Direct Cost	Indirect Cost	Total Direct & Indirect Cost	Value Added Tax	Total Cost	Cost per Unit of Work Item								
		Quantity	Unit	Quantity	Unit	Materials, Labor, and Equipment	Overhead, Contingencies, Miscellaneous, & Profit												
(1)	(2)			(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)								
1. General Requirements																			
1.1.	Mobilization & Demobilization			1	lot														
1.2.	Construction Occupational Safety & Health			1	lot														
1.3.	Temporary Facilities, Billboard and Barricade			1	lot														
1.4.	Permits and Clearances			1	lot														
1.5.	Removal of Existing Basketball Hoop System and Bracing			1	lot														
									Sub-Total										
2. Earthworks																			
2.1.	Site Clearing , Grubbing and Hauling of Debris			1	lot														
2.2.	Soil Embankment with Compaction			1,232.88	m ³														
									Sub-Total										
3. Structural Works																			
3.1.	Column Footings & Strap Beams (3000 psi)			1	lot														
3.1.1	Excavation	35.78	m ³																
3.1.2	Concrete 3000 psi	15.72	m ³																
3.1.3	Reinforcement	-	-																
3.1.3.1	10mm Ø x 6m DSB Grade 40	36.17	kg																
3.1.3.2	12mm Ø x 6m DSB Grade 40	560.96	kg																
3.1.3.3	16mm Ø x 6m DSB Grade 60	87.12	kg																
3.1.3.4	#16 GI Tie Wire	12.96	kg																
3.1.4	Gravel Bedding	5.60	m ³																
3.1.5	Soil Backfilling with Compaction	20.06	m ³																
3.2.	Grade Beams (3000 psi)											1	lot						
3.2.1	Excavation	25.78	m ³																
3.2.2	Concrete 3000 psi	22.61	m ³																
3.2.3	Reinforcement	-	-																
3.2.3.1	12mm Ø x 6m DSB Grade 40	1,720.37	kg																
3.2.3.2	10mm Ø x 6m DSB Grade 40	1,200.40	kg																
3.2.3.3	#16 GI Tie Wire	58.42	kg																
3.2.4	Gravel Bedding	5.87	m ³																
3.3.	Tie Beams (3000 psi)			1	lot														
3.3.1	Concrete 3000 psi	8.28	m ³																
3.3.2	Reinforcement	-	-																
3.3.2.1	12mm Ø x 6m DSB Grade 40	629.91	kg																
3.3.2.2	10mm Ø x 6m DSB Grade 40	443.13	kg																
3.3.2.3	#16 GI Tie Wire	21.46	kg																
3.3.3	Gravel Bedding	2.15	m ³																

5.2.14	1 1/4" ϕ PVC Pipe	124	pc						
5.2.15	1 1/4" ϕ IMC Pipe	4	pc						
5.2.16	2" x 4" PVC Utility box	30	pc						
5.2.17	4" x 4" PVC Square Pullbox with cover	2	pc						
5.2.18	4" x 4" Metal Square Pullbox with cover	2	pc						
5.2.19	12" x 12" x 5" Metal Pullbox	1	pc						
5.3. Panelboards and Feeder Lines				1	lot				
5.3.1	SERVICE EQUIPMENT 300AT,3 Pole, 230V MCCB with mechanical lugs, dead front, and accessories in NEMA 4X Enclosure	1	set						
5.3.2	MDP Main: 300AT MCCB, 3Pole, 230V Branches: 1 - 50AT MCCB, 2 Pole, 230 V 1 - 250AT MCCB, 2 Pole, 230 V Space: 2 with busbar, grounding busbar, mechanical lugs, dead front, and accessories in NEMA-1 Enclosure	1	set						
5.3.3	PB-A Main: 70AT MCCB, 3 Pole, 230V Branches: 5 - 15AT MCCB, 2 Pole, 230 V 6 - 20AT MCCB, 2 Pole, 230 V 1 - 60AT MCCB, 2 Pole, 230 V with busbar, grounding busbar, mechanical lugs, dead front, and accessories in NEMA-1 Enclosure	1	set						
5.3.4	PB-B Main: 250AT MCCB, 3 Pole, 230V Branches: 10 - 60AT MCCB, 3 Pole, 230 V 2 - 20AT MCCB, 3 Pole, 230 V 2 - 50AT MCCB, 2 Pole, 230 V with busbar, grounding busbar, mechanical lugs, dead front, and accessories in NEMA-1 Enclosure	1	set						
5.3.5	Excavation and Compacted Backfill	0.84	cu.m.						
5.3.6	200mm x 200mm Concrete Encasement	0.52	cu.m.						
5.3.7	600mm x 600mm Concrete Pullbox w/ Manhole	0.20	cu.m.						
5.3.8	Service Entrance Concrete Pedestal including, reinforcement, gravel bedding, formworks, etc.	1	lot						
5.3.9	200 mm ² Cu. THHN/THWN (STR)	99.00	m						
5.3.10	150 mm ² Cu. THHN/THWN (STR)	18.00	m						
5.3.11	50 mm ² Cu. THHN/THWN (STR)	6.00	m						
5.3.12	30 mm ² Cu. THHN/THWN (STR)	3.00	m						
5.3.13	22 mm ² Cu. THHN/THWN (STR)	21.00	m						
5.3.14	8.0 mm ² Cu. THHN/THWN (STR)	5.00	m						
5.3.15	4" ϕ PVC Conduit	13	pc						
5.3.16	2 1/2" ϕ PVC Conduit	2	pc						
5.3.17	1 1/2" ϕ PVC Conduit	2	pc						

5.3.18	1" Ø PVC Conduit	10	pc						
5.3.19	4" Ø Service Entrance Cap	1	set						
5.3.20	1" Ø Service Entrance Cap	1	set						
5.3.21	Three - Spool Secondary Rack	1	set						
5.3.22	10' x 5/8" Ø Copper Ground Rod with grounding clamp	1	set						
5.4. Fire Detection and Alarm System				1	lot				
5.4.1	Addressable Fire Alarm Control Panel	1	set						
5.4.2	Addressable Heat Detector	10	set						
5.4.3	Addressable Smoke Detector	6	set						
5.4.4	Addressable Resettable Manual Pull Station	4	set						
5.4.5	Addressable Strobe Horn	4	set						
5.4.6	1.25 mm ² TF Wire	896.00	m						
5.4.7	1/2" Ø PVC	32	pc						
5.4.8	1/2" Ø IMC	27	pc						
5.4.9	2"x 4" PVC Utility Box	5	set						
5.4.10	4" x 4" PVC Junction Box with Cover	30	set						
5.5. Structured Cabling Layout				1	lot				
5.5.1	3" X 5" X 24" Electrical Metal Pullbox with cover	1	set						
5.5.2	Blank plate cover	2	set						
5.5.3	1/2" Ø PVC	20	pc						
5.5.4	3/4" Ø PVC	16	pc						
5.5.5	1" Ø PVC	12	pc						
5.5.6	2"x 4" PVC Utility Box	2	set						
5.5.7	4" x 4" PVC Square Pullbox with Cover	4	set						
5.6. Closed-Circuit Television Layout				1	lot				
5.6.1	Blank plate cover	7	set						
5.6.2	1/2" Ø PVC	16	pc						
5.6.3	3/4" Ø PVC	18	pc						
5.6.4	1" Ø PVC	36	pc						
5.6.5	2"x 4" PVC Utility Box	7	set						
5.6.6	5" x 5" PVC Square Box with Cover	8	set						
6 Plumbing Works									
6.1 Waste Pipes and Fittings				1	lot				
6.1.1	100 mm Ø S1000 PVC Pipe	36.00	m						
6.1.2	75 mm Ø S1000 PVC Pipe	40.00	m						
6.1.3	50 mm Ø S1000 PVC Pipe	15.00	m						
6.1.4	100 mm Ø Cleanout with Brass Cover	5	pc						
6.1.5	75 mm Ø Cleanout with Brass Cover	7	pc						
6.1.6	75 mm Floor Drain P-trap	18	set						
6.1.7	Hardware and Assorted Fittings (elbow, tee, coupling, etc.)	1	lot						
6.2 Stormdrain, Downspout, Catch Basin and Fittings				1	lot				
6.2.	Stormdrain, Downspout, Catch Basin and Fittings	-	-						
6.2.1	150 mm Ø S1000 PVC Pipe	78.00	m						
6.2.2	100 mm Ø S1000 PVC Pipe	180.00	m						
6.2.3	75 mm Ø S1000 PVC Pipe	51.00	m						
6.2.4	60cm x 60cm Catch Basin including excavation, 4" CHB Wall System, concrete base, manhole and 10 mm Ø reinforcement	23	set						
6.2.5	0.50mm thk. x 48" Pre-painted G.I Sheet Gutter with Aluminum Expanded Wire Mesh and Strap Hanger spaced at 1.0m	104.91	m						
6.2.6	Hardware and Assorted Fittings (elbow, tee, coupling, etc.)	1	lot						

6.3	Vent Pipes and Fittings			1	lot					
6.3.	Vent Pipes and Fittings	-	-							
6.3.1	100 mm Ø S1000 PVC Pipe	9.00	m							
6.3.2	50 mm Ø S1000 PVC Pipe	82.00	m							
6.3.3	Hardware and Assorted Fittings (elbow, tee, adaptor, cap, coupling, angle valve, etc.)	1	lot							
6.4	Cold Water Supply System			1	lot					
6.4.1	20 mm Ø PPR Pipe PN20	36.00	m							
6.4.2	25 mm Ø PPR Pipe PN20	35.00	m							
6.4.3	63 mm Ø PPR Pipe PN20	35.00	m							
6.4.4	25 mm Ø PPR Gate Valve	5	pc							
6.4.5	Hardware and Assorted Fittings (elbow, tee, adaptor, cap, coupling, angle valve, etc.)	1	lot							
6.5	Main Water Supply System			1	lot					
6.5.1	50 mm Ø HDPE Blue Pipe PE100 SDR 09	75.00	m							
6.5.2	2" x 2" Ø Saddle Clamp	1	pc							
6.5.3	50 mm Ø Water Flow Meter Heavy Duty 10bars Cast Iron Body, Dry dial Flange type with Flanges bolts nuts and gasket brand new (Household Multi-Jet Dry type) sub meter register in cubic meter heavy duty	1	set							
6.5.4	50 mm Ø Heavy Duty Brass Body Non-Rising Stem Gate Valve 200psi W.O.G., 125psi Saturated Steam Pressure - Threaded Type	1	pc							
6.5.5	50 mm Ø Heavy Duty Brass Body Swing Check Valve 200psi W.O.G., 125psi Saturated Steam Pressure - Threaded Type	1	pc							
6.5.6	Cast Iron Gibault Joint for Steel Pipe and PVC	2	pc							
6.5.7	Concrete Thrust Block including demolition and restoration	1	lot							
6.5.8	Assorted Fittings (elbow, adaptor, coupling, nipple, slip on flange etc.)	1	lot							
6.6	Plumbing Fixtures			1	lot					
6.6.1	Water Closet Dual Flush, push button type w/ heavy duty stainless Bidet Faucet and complete accessories-- 4/6 liters standard or equal water closet pan and cistern complete with heavy duty soft closing seat and cover (water saving)	7	set							
6.6.2	Wall Hung Urinal- (L 480 mm x W 335 mm x H 745 mm) top inlet urinal water saving w/ button type flush valve 0.8Gpf manual automatic shutoff and complete accessories (valve, etc.)	3	set							
6.6.3	Wall Hung Lavatory with manual shutoff single handle type faucet S304 stainless finish and complete accessories (valve, p-trap, etc.)	1	set							
6.6.4	Drop-in Sink with manual shutoff single handle type faucet S304 stainless finish and complete accessories (valve, p-trap, etc.)	6	set							
6.6.5	Heavy Duty Stainless S304 Round Telephone Showerhead with 50mm Ø Two Way Faucet	6	set							
6.6.6	100 mm x 100 mm Stainless Floor Drain	18	pc							
6.6.7	100 mm x 900 mm Stainless Steel Rectangular Shower Drain	6	set							
6.6.8	Hosebib Heavy-duty stainless S304 body with Thread	2	pc							

6.7	Septic Tank			1	lot					
6.7.1	Excavation	12.80	m ³							
6.7.2	Concrete 3000psi	2.44	m ³							
6.7.3	Reinforcement	-	-							
6.7.3.1	10 mm Φ x 6 m DSB Grade 40	114.31	kg							
6.7.3.2	#16 GI Tie Wire	7.52	kg							
6.7.4	4" CHB Wall System including 10mm Ø vertical rebars @ 0.60m & horizontal rebars @ every 3 layers of CHB	19.20	m ²							
6.7.5	Waterproofing of inside perimeter wall and floor (surface preparation, application of 3 coats of cementitious waterproofing)	28.60	m ²							
6.7.6	Plastering of CHB Wall System inside wall	22.20	m ²							
6.7.7	Manholes	3	set							
6.7.8	PVC Pipes and Fittings	1	lot							
								Sub-Total		
									<i>[In Words]</i>	<i>[In Figures]</i>
Total Bid Price										

[Signature]
 [Name of Authorized Signatory]
 [Position/Title]

