

[Bidder's Letterhead]

[Date]

ac State University
itation to Bid No.]

BILL OF QUANTITIES

Item No. (1)	Work Description (2)	Materials, supplies, etc.		Work Item		Direct Cost	Indirect Cost	Total Direct & Indirect Cost (9)	Value Added Tax (10)	Total Cost (11)
		Quantity (3)	Unit (4)	Quantity (5)	Unit (6)	Materials, Labor, & Equipment (7)	Overhead, Contingencies, Miscellaneous, & Profit (8)			
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	Testing and commissioning for fire pump assembly (including Pressure and Leak Testing of Pipes)			1	lot					
									Sub-Total	
2 Mechanical Works										
2.1	Fire Pump System			1	lot					
2.1.1	UL/FM Vertical Turbine Electric-Driven: 400GPM @ 80PSI, 30HP/60HZ/ 230V/ 3PH, with Control Panel, Air Relief Valve (UL/ FM), Circulation Safety Valve (UL/FM), Pump Outlet Gauges	1	set							
2.1.2	Submersible Jockey Pump: 15GPM @ 90PSI, 2HP/ 60HZ/ 230V/3PH, with Control Panel	1	set							
2.2	Fire Pump Valves and Accessories			1	lot					
2.2.1	OS & Y Gate Valve, 100mm Ø, UL/FM	2	pc.							
2.2.2	Supervisory Switch, UL/FM	2	pc.							
2.2.3	Rubber Expansion Joint, 100mm Ø (for Fire Pump Discharge)	1	pc.							
2.2.4	Check Valve 100mm Ø, UL/FM (for Fire Pump Discharge)	2	pc.							
2.2.5	Gate Valve 40mm Ø, UL/FM (for Jockey Pump Discharge)	1	pc.							
2.2.6	Check Valve 40mm Ø (for Jockey Pump Discharge)	1	pc.							
2.2.7	Alarm Check Valve 100mm Ø, UL/FM	1	pc.							
2.2.8	Flow Meter 100mm Ø, UL/FM (for Fire Pump Test Line)	1	pc.							
2.2.9	Fire Protection Pressure Relief Valve 100mm Ø, UL/FM	1	pc.							

2.3	Floor Control Assembly			1	lot				
2.3.1	OS & Y Gate Valve 80mm Ø, UL/FM	5	pc.						
2.3.2	Supervisory Switch, UL/FM	5	pc.						
2.3.3	Waterflow Switch 80mm Ø, UL/FM	5	pc.						
2.3.4	Gate Valve 25mm Ø, UL/FM	5	pc.						
2.3.5	Sight Glass, 25mm Ø	5	pc.						
2.3.6	Gate Valve 50mm Ø, UL/FM	5	pc.						
2.3.7	Pressure Gauge	5	pc.						
2.4	Standpipe			1	lot				
2.4.1	Fire Hose Valve 65mm Ø	16	pc.						
2.4.2	Fire Department Connection 65mm Ø x 65mm Ø x 100mm Ø, UL/FM	4	pc.						
2.4.3	Indoor Fire Hose Cabinet, Surfaced Type, Complete with 40mm Ø Angle Hose Valve, 40mm Ø Hose Nozzle, 40mm Ø x 30m Fire Hose Double Jacket and, and Hose Rack	16	set						
2.5	Inspector's Test Connection			1	lot				
2.5.1	Sight Glass, 25mm Ø	5	pc.						
2.5.2	Gate Valve 25mm Ø, UL/FM	5	pc.						
2.6	Pipes and Fittings			1	lot				
2.6.1	100mm Ø, Black Steel Pipe Sch.40 Seamless Plain Ends ASTM A53 Gr. B 6m	42	pc.						
2.6.2	80mm Ø, Black Steel Pipe Sch.40 Seamless Plain Ends ASTM A53 Gr. B 6m	125	pc.						
2.6.3	65mm Ø, Black Steel Pipe Sch.40 Seamless Plain Ends ASTM A53 Gr. B 6m	5	pc.						
2.6.4	50mm Ø, Black Steel Pipe Sch.40 Seamless Plain Ends ASTM A53 Gr. B 6m	5	pc.						
2.6.5	40mm Ø, Black Steel Pipe Sch.40 Seamless Plain Ends ASTM A53 Gr. B 6m	19	pc.						
2.6.6	32mm Ø, Black Steel Pipe Sch.40 Seamless Plain Ends ASTM A53 Gr. B 6m	33	pc.						
2.6.7	25mm Ø, Black Steel Pipe Sch.40 Seamless Plain Ends ASTM A53 Gr. B 6m	14	pc.						
2.6.8	Fittings, Sch.40, Black Steel (Elbow Standard, Tee Straight, Tee Reducer, Concentric Reducer, Eccentric Reducer, Grooved Fittings, Slip On Flange, Blind Flange, B.I. End Cap and Etc.)	1	lot						
2.6.9	Pipe Hangers, Supports and Sleeves	1	lot						
2.6.10	Epoxy Enamel Paint for Steel Pipes (including surface preparation, primer and 2 top coats and primer)	1	lot						
2.7	Sprinklers Heads, FHCs, and Accessories			1	lot				
2.7.1	K = 5.6, Quick Response, 155°F, 1/2" NPT, Pendent Type w/ escutcheon plate	12	pc.						

2.7.2	Indoor Fire Hose Cabinet, Surfaced Type, Complete with 40mm Ø Angle Hose Valve, 40mm Ø Hose Nozzle, 40mm Ø x 30m Fire Hose Double Jacket and, and Hose Rack	20	set						
2.7.3	Fire Department Connection 65mm Ø x 65mm Ø x 100mm Ø, UL/FM	1	pc.						
3 Structural Works									
3.1 Concrete and Steel Works				1	lot				
3.1.1	Excavation	1,167.94	m ³						
3.1.2	Concrete 3000 psi	70.41	m ³						
3.1.3 Reinforcement									
3.1.3.1	16mm Ø x 6m DSB Grade 40	3,227.47	kg						
3.1.3.2	12mm Ø x 6m DSB Grade 40	1,083.51	kg						
3.1.3.3	10mm Ø x 6m DSB Grade 40	335.28	kg						
3.1.4	#16 GI Tie Wire	78.00	kg						
3.1.5	20 mm Ø Stainless Steel Bar Ladder Rung	9.00	pc						
3.2 Roof Framing				1	lot				
3.2.1	2" x 4" x 1.5 mm thk. G.I. Tubulars	5	pc						
3.2.2	2" x 4" x 1.5 mm thk. G.I. C- Purlins	10	pc						
3.2.3	2" x 10" x 1.5 mm thk. G.I. C- Purlins	4	pc						
3.2.3	1 1/2" x 1 1/2" x 3.5 mm thk. Anglebar	1	pc						
3.2.3	10mm Ø Round Bar	2	pc						
3.2.4	Epoxy Primer Paint for Steel Framing	1	lot						
3.2.5	Welding Rods	1	lot						
4 Architectural Works									
4.1 Masonry and Plastering Works				1	lot				
4.1	4" CHB Wall (including mortar and 10 mm steel reinforcement every three CHB layer and 0.60 m horizontal spacing)	46.92	m ²						
4.2	Cement Plastering of Interior and Exterior Walls, Column, Beams, etc.	89.42	m ²						
4.2 Roofing Materials				1	lot				
4.2.1	0.50 mm thk. Prepainted Rib Type Roofing	34.00	m						
4.2.2	0.50 mm thk. Prepainted Roof Flashing	9.00	m						
4.2.3	0.50 mm thk. Prepainted Roof Gutter	3.00	m						
4.2.4	10 mm thk. Aluminum Fim Laminated Foam Two Sided w/ 12.5 mm welded wire #21	34.00	m ²						
4.2.5	Tekscrew, Blind Rivets, Sealant, etc.	1	lot						
4.3 Floor Finishing Works				1	lot				
4.3.1	Smooth Cement Floor Finish	14.61	m ²						

4.4	Ceiling Works			1	lot				
4.4.1	6" x 0.50 mm Pre- Painted Metal Spandrel including air ventilation holes, mouldings and framing system	20.00	m ²						
4.5	Painting and Water Proofing Works			1	lot				
4.5.1	Semi-Gloss Latex Paint Finish on Exterior and Interior Wall, Beams, Columns, Ledges, etc. (surface preparation, primer and 2 top coats)	89.42	m ²						
4.5.2	Waterproofing of inside perimeter wall and floor (surface preparation, application of 5 coats of cementitious waterproofing)	75.24	m ²						
4.6	Doors			1	lot				
4.6.1	D1 - Double Swing Steel Louver Door with Metal Door Jamb and Complete Accessories	1	set						
4.7	Windows			1	lot				
4.7.1	W1 - Steel Louvered Window with Tubular Steel Framing	1	set						
4.7.2	W2- Steel Louvered Window with Tubular Steel Framing	1	set						
5	Plumbing								
5.1	Stormdrain, Downspout and Fittings			1	lot				
5.1.1	75 mm Ø S1000 PVC Pipe	4	pc						
5.1.2	75 mm Ø Elbow PVC	6	pc						
5.1.3	75 mm Ø Aluminum Downspout Strainer	2	set						
5.1.4	75 mm Ø HDPE Pipe for Cistern Water Supply Line	130.00	m						
5.1.5	75 mm Ø Heavy Duty Brass Body Water Meter	1	pc						
5.1.6	75 mm Ø Heavy Duty Brass Body Gate Valve	2	pc						
5.1.7	76 mm Ø Heavy Duty Brass Body Check Valve	1	pc						
5.1.8	77 mm Ø Heavy Duty Brass Body Float Valve	1	pc						
5.1.9	Assorted Fittings and Accessories	1	lot						
6	Electrical Works								
6.1	Lighting, Power and Fire Pump System			1	lot				
6.1.1	36W Linear LED Pendant Light [Color: Daylight] Black Housing]	4	set						
6.1.2	12W Surface Mounted LED Panel Light [Color: Daylight]	5	set						
6.1.3	Universal Duplex Convenience Outlet	2	set						
6.1.4	2 Gang Switch Wide Series with LED	1	set						
6.1.5	2" x 4" GI Utility Box with Connector and Cover	2	set						
6.1.6	4" x 4" GI Junction Box with Connector and Cover	4	set						

6.1.7	Fire Pump Room Panel (Bolt-on) Main: 450AT 3P MCCB Branch: 1-450AT 3P MCCB, 1-60AT 3P MCCB, 1-30AT 3P MCCB, 2-20AT 2P MCCB Space: 0 With Busbars and Terminal Lugs Nema-1 Enclosure	1	set	
6.1.8	12 inche x 12 inches x 4 inches (L x W x D) GA 16 Metal Pull Box	5	set	
6.1.9	3" Ø RSC	40	pc	
6.1.10	1 1/2" Ø RSC	2	pc	
6.1.11	3/4" Ø RSC	2	pc	
6.1.12	1/2" Ø RSC	5	pc	
6.1.13	1 1/2" Ø LFMC	8.00	m	
6.1.14	3/4" Ø LFMC	10.00	m	
6.1.15	1/2" Ø Mica Tube	10.00	m	
6.1.16	100 mm ² Cu. THHN/THWN (STR)	375.00	m	
6.1.17	30 mm ² Cu. THHN/THWN (STR)	150.00	m	
6.1.18	14 mm ² Cu. THHN/THWN (STR)	10.00	m	
6.1.19	5.5 mm ² Cu. THHN/THWN (STR)	25.00	m	
6.1.20	3.5 mm ² Cu. THHN/THWN (STR)	100.00	m	
6.1.21	10' Ground rod with solderless connector	1	lot	
6.1.22	Conduit Support, Connector and Hanger (Elbow, Box Connector, Angle Bar, U-Bolt, Dynabolt with nut and washer)	1	lot	p
Total Bid Price				(State total amount of Bid in words)
				(Total amount in figures)

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

Andri
Gamon
H. P. P. P.