



Department of Science and Technology
Philippine Science High School
Central Mindanao Campus
Nangka, Balo-I, Lanao del Norte

Project : Construction of Rainwater Collection System

BILL OF QUANTITIES - COST ESTIMATES

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL AMOUNT
1.0	GENERAL REQUIREMENTS				
1.1	Mobilization/Demob/Temp. Facilities	1	lot		
1.2	Safety	1	lot		
				Total :	
2.0	Reinforced Concrete Ground Water Tanks (Nos. 1,2,3,4 & 5)				
2.1	Excavation	260	cum		
2.2	Concrete, 3000-psi	65	cum		
2.3	Steel Bar, Def. 12mm dia x 6	4,500	kgs		
2.4	Steel Bar, Def. 10mm dia x 6	850	kgs		
2.5	Formworks	1	lot		
2.6	Consumables	1	lot		
2.7	Painting Interior, White (food grade)	300	sqm		
2.8	Stainless Steel Cover, 6mm thk	5	sets		
2.9	Water Proofing	300	sqm		
2.10	Ladder Rung, G.I., 3/4" dia.	5	sets		
				Total	
3.0	Piping System (Bldg. Gutter To Ground Water Tank)				
3.1	ACA-1 Building				
3.1.1	Stainless and or Plastic Drum Catch Basin	3	sets		
3.1.2	PVC Pipe, 100mm dia x 3m, S1000 (Connecting catch basins)	21	lm		
3.1.3	Fittings, 100mm dia, S1000	1	lot		
3.1.4	PVC Pipe, 100mm dia x 3m (Catch basins to water tank), including Plain G.I. Sheet Cover, #24	70	lm		

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ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL AMOUNT
3.1.5	Supply and Install FIRST FLUSH DIVERTER (by Emerald Vinyl Corp.)	2	sets		
3.1.6	Pipe Supports	1	lot		
3.2	ACA-2 and ACA-3 Buildings				
3.2.1	Stainless and or Plastic Drum Catch Basin	6	sets		
3.2.2	PVC Pipe, 100mm dia x 3m, S1000 (Connecting catch basins)	21	lm		
3.2.3	Fittings, 100mm dia, S1000	1	lot		
3.2.4	PVC Pipe, 100mm dia x 3m (Catch basins to water tank), including Plain G.I. Sheet Cover, #24	74	lm		
3.2.5	Supply and Install FIRST FLUSH DIVERTER (by Emerald Vinyl Corp.)	2	sets		
3.2.6	Pipe Supports	1	lot		
3.3	DORM 3 Building				
3.3.1	Stainless and or Plastic Drum Catch Basin	3	sets		
3.3.2	PVC Pipe, 100mm dia x 3m, S1000 (Connecting catch basins)	21	lm		
3.3.3	Fittings, 100mm dia, S1000	1	lot		
3.3.4	PVC Pipe, 100mm dia x 3m (Catch basins to water tank), including Plain G.I. Sheet Cover, #24	24	lm		
3.3.5	Supply and Install FIRST FLUSH DIVERTER (by Emerald Vinyl Corp.)	2	sets		
3.3.6	Pipe Supports	1	lot		
3.4	Gymnasium Building				
3.4.1	Stainless and or Plastic Drum Catch Basin	3	sets		
3.4.2	PVC Pipe, 100mm dia x 3m, S1000 (Connecting catch basins)	24	lm		
3.4.3	Fittings, 100mm dia, S1000	1	lot		
3.4.4	PVC Pipe, 100mm dia x 3m (Catch basins to water tank)	24	lm		
3.4.5	Supply and Install FIRST FLUSH DIVERTER (by Emerald Vinyl Corp.)	2	sets		
3.4.6	Pipe Supports	1	lot		
3.5	Canteen & Dorm Boys Buildings				
3.5.1	Stainless and or Plastic Drum Catch Basin	6	sets		
3.5.2	PVC Pipe, 100mm dia x 3m, S1000 (Connecting catch basins)	36	lm		

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3.5.3	Fittings, 100mm dia, S1000	1	lot		
3.5.4	PVC Pipe, 100mm dia x 3m (Catch basins to water tank), including Plain G.I. Sheet Cover, #24	48	lm		
3.5.5	Supply and Install FIRST FLUSH DIVERter (by Emerald Vinyl Corp.)	2	sets		
3.5.6	Pipe Supports	1	lot		
				Total	
4.0	Piping System (At Ground Water Tank)				
4.1	Air Vent, G.I. Pipe, 4" dia x 1.2m (with 2-90 deg. Elbow)	5	Sets		
4.2	Overflow, G.I. Pipe, 4" dia. X 1m (with 90 deg. Elbow)	5	Sets		
4.3	Drain Pipe G.I. 4" dia. X 1m , Blind Flange	5	Sets		
4.4	Pipe Sleeve, G.I. Pipe, 2" dia. X 1m (Riser Pipe)	5	Sets		
4.5	PVC pipe, 4" dia. X 1m, S1000 (Inlet Pipe)	10	Sets		
				Total	
5.0	Booster Pump, 1-HP with 5-Gal. Pressure Tank ; includes pressure switch ,pressure gauge, G.I. 1" dia x 3m riser pipe, foot valve, 1" dia., etc., Tank Fence & Shed				
5.1	Booster Pump with Pressure Tank (For: ACA-1)	1.00	set		
5.2	Booster Pump with Pressure Tank (For: ACA-2)	1.00	set		
5.3	Booster Pump with Pressure Tank (For: ACA-3)	1.00	set		
5.4	Booster Pump with Pressure Tank (For: DORM-3)	1.00	set		
5.5	Booster Pump with Pressure Tank (For: GYM)	1.00	set		
5.6	Booster Pump with Pressure Tank (For: Function Hall)	1.00	set		
5.7	Booster Pump with Pressure Tank (For: DORM Girls)	1.00	set		
5.8	Booster Pump with Pressure Tank (For: DORM Boys)	1.00	set		
5.9	Booster Pump with Pressure Tank (For: Canteen, Guard House)	1.00	set		
5.10	Float Switch	9.00	sets		

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL AMOUNT
5.11	Electrical, Panel Board, Magnetic Switch, Wires, Conduits, etc.	9.00	lot		
5.12	Sump Pump, (with discharge hose, 2" dia.), Dis. 26-gpm, Head 8-m	1.00	set		
5.13	Pump Shed (Interlink Fence Enclosure)	5.00	sets		
5.14	Gate Valve, 1/2" , Brass, with Hose Bib	5.00	set		
5.15	PVC Gate Valve, 3" dia (Gym)	1.00	set		
6.0	Water Distribution Line, P.E. Pipe 2" dia. ,				
6.1	Excavation	361.00	lm		
6.2	PE Pipe, 2" dia. (Deep Well to G.Tank #3), including fittings	231.00	lm		
6.3	PE Pipe, 2" dia. (Deep Well to G.Tank #2), including fittings	10.00	lm		
6.4	PE Pipe, 2" dia. (Street Pipe to G.Tank #4), including fittings	75.00	lm		
6.5	PE Pipe, 2" dia. (Street Pipe to G.Tank #5), including fittings	45.00	lm		
6.6	Gate Valve, Brass , 2" dia.,; including valve box	4.00	pcs		
				Total	
7.0	Piping System (from Ground Water Tank Booster Pump to Building piping); G.I. / P.E. Pipe, 3/4" dia, including Gate / check valves, fittings , etc.				
7.1	Ground Tank No. 1 to ACA 1	5	lm		
7.2	Ground Tank No. 2 to ACA 2	6	lm		
7.3	Ground Tank No. 2 to ACA 3	5	lm		
7.4	Ground Tank No. 3 to DORM 3	5	lm		
7.5	Ground Tank No. 4 to GYM	30	lm		
7.6	Ground Tank No. 4 to Function Hall	37	lm		
7.7	Ground Tank No. 4 to DORM Girls	110	lm		
7.8	Ground Tank No. 5 to DORM Boys	65	lm		
7.9	Ground Tank No. 5 to Canteen, Guard House	68	lm		
				Total	
SUMMARY					

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2.0	Reinforced Concrete Ground Water Tanks (Nos. 1,2,3,4 & 5)				
3.0	Piping System (Bldg. Gutter To Ground Water Tank)				
4.0	Piping System (At Ground Water Tank) Booster Pump, 1-HP with 5-Gal. Pressure Tank ; includes pressure switch ,pressure gauge, G.I. 1" dia x 3m riser pipe, foot valve, 1" dia., etc., Tank Fence & Shed				
5.0					
6.0	Water Distribution Line, P.E. Pipe 2" dia. ,				
7.0	Piping System (from Ground Water Tank Booster Pump to Building piping); G.I. / P.E. Pipe, 3/4" dia, including Gate / check valves, fittings , etc.				
				Grand Total	


ELEAZAR A.. ESLAO
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Recommending Approval

CARLITO C. LARIOS
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Approved:

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