

**Summary of Bill of Quantities for Works**

<b>Bill No.</b>	<b>Description</b>	<b>Price</b>
1	Preliminary and General	\$0
2	Miscellaneous Cast-In-Place Concrete	\$0
3	Sanitary Treatment Systems and Drain Piping	\$0
4	Water Piping, Wells, and Water Storage Tank	\$0
5	Power Supply	\$0
6	Miscellaneous Site Items	\$0
	Sub-total	<b>\$0</b>

NOTE: Items shown include transportation, excavation, shoring, dewatering and installation.

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Bill No. 1 Preliminary and General

Item No.	Sheet No.	Description	Unit	Qty.	Unit Price	Price
1.01		Contractor's Mobilization. Compensation in full for the cost of establishing plant, equipment, materials and personnel on site to the satisfaction of the Engineer for the Contract.	LS	1		\$0
1.02		Contractor's Demobilization. Compensation in full for the cost of removing plant, equipment, facilities and personnel from the site, including restoration of the area to a satisfactory condition as approved by the Engineer for the Contract.	LS	1		\$0
1.03	C-03	Site Demolition per Dwg C-03.	LS	1		\$0
1.04	C-20 - C-23	Site Clearing/ Rough Grading	LS	1		\$0
1.05	C-20 - C-23	Site Fill and Fine Grading	CM	3504		\$0
1.06	C-20 - C-23	Site Drainage Piping, 150 mm diameter corrugated HDPE pipe. These pipes interconnect drainage basins. The inlet and outlet ends of the drain pipe are to have a cemented stone cover per detail on Dwg C-35.	LM	68		\$0
1.07	C-20 , C-21, C-34	Drainage piping for roof drains on east side of school. 150 mm Sch 40 PVC pipe, from existing downspout pit to concrete draingage trench. Includes connecting to the downspout pit and the drainage trench.	Ea.	7		\$0
1.08	C-20 , C-21, C-35	Drainage piping for roof drains on all other sides of the school (including the drain on the north end of the school). 150 mm corrugated HDPE. Includes connecting to the existing downspout pit or existing PVC pipe stub out from the downspout pit. Includes the cemented stone cover over the pipe outlet (See Detail 1, Dwg C-35).	Ea.	14		\$0
1.09	C-23	250mm SDR 17, HDPE pipe, connecting drainage trench to the drainage basine, including excavation, piping and backfill	LS	1		\$0
1.10	C-23	Install drainage basin including excavation, shaping, and gravel filter,	LS	1		\$0
		<b>Total</b>				<b>\$0</b>

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**Bill No. 2 Miscellaneous Cast-in-Place Concrete**

Item No.	Sheet No.	Description	Unit	Qty.	Unit Price	Price
2.01	C-10 - C-13 and C-30, C-31	150mm Depth Reinforced Concrete Sidewalk/Walkway/Assembly Area/Bike Parking Area. Work includes base material and compaction, contraction joints. Construction joints are required only as necessary due to Contractor's pouring schedule.	SM	1136		\$0
2.01A	C-10, C-11 and C-34, C-35	150mm Depth Reinforced Concrete Sidewalk on the east side of school, between the concrete drainage trench and the school building. Works include base material, compaction, and contraction joints. Work also includes integrating the sidewalk with the concrete drainage trench.	SM	193		\$0
2.01B	C-10, C-30, C-31	150 mm depth reinforced concrete sidewalk on the north side of school (1.5 m width x 16.5 m long).	SM	25		\$0
2.01C	C-10, C-11 and C-34, C-35	Concrete drainage trench on east side of school, including the area adjacent to, and supporting the edge of the porch. The drainage trench is to have steel grating cover.	LS	1		\$0
2.01D	C-34, C-21	Install concrete drainage trench on the south side of school including all excavation, concrete work grating and all relevant accessories and work as per drawing	LS	1		\$0
2.01E	C-20, C-36	Concrete porch on east side of school. Includes the porch slab, the steps, and handrail, as shown on Dwg C-36.	LS	1		\$0
2.02	C-10 - C-13 & C-30, C-31	150mm Depth Reinforced Concrete Driveway/Parking Area. Works include base material and compaction, control joints. Construction joints are required only as necessary due to Contractor's pouring schedule. Drawing C-31 shows the revised joint design for the driveway/pavement areas.	SM	1013		\$0
2.03	U-93	Reinforced Concrete Spill Pad for Water Tank - 1M x 1M x .4M	LS	1		\$0
2.04	C-10 - C-13 & C-30	150 x 150mm Reinforced Concrete Curb. Includes drain pipes through curb where shown. Curbing around assembly area is replaced with curbing detail on sheet C-30, see item 2.04.01 below	M	593		\$0
2.04.01	C-30, C-23	Install concrete curbs around assembly area and on the south side of parking lot, as shown on C-30, C23 including material, installation and all relevant work and accessories	M	90		\$0
2.05	E-10	2.36 x 1.55 x 0.20 m Reinforced Concrete Pad for Transformer.	LS	1		\$0
2.06	C-12, C-30	Provide assembly area with ceramic pavers including 100 mm compacted aggregate base course and all relevant accessories and work as detailed on drawing C-12 and C-30	SM	890		\$0
<b>Total</b>						<b>\$0</b>

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**Bill No. 3 Sanitary Treatment Systems and Drain Piping**

Item No.	Sheet No.	Description	Unit	Qty.	Unit Price	Price
3.01	U-10 - U-11	80 mm Diameter SDR 17 HDPE Pipe sewer service connections including fittings, installed in trench with compacted backfill. Includes the PVC/HDPE transition flanges per detail on Dwg. U-20.	M	41		\$0
3.02	U-10 - U-13	110 mm Diameter SDR 17 HDPE sewer service connections including fittings, installed in trench with compacted backfill. Includes the PVC/HDPE transition flanges per detail on Dwg. U-20.	M	30		\$0
3.02A	U-10 & U-13	80 mm and 110 mm diameter SDR 17 HDPE sewer connections on the east side of the school. Includes all piping and fittings to connect to the 160 mm sewer main as shown in the Detail on Dwg U-23. Includes the cleanout and aluminum access cover in the sidewalk above each cleanout.	Ea.	4		\$0
3.03	U-10 - U-13	160 mm Diameter smooth wall SDR 17 HDPE Pipe for sewer installed in trench with compacted backfill, depth of 1-2 meters to pipe inv elev.	M	208		\$0
3.04	U-11 & U-13	160 mm Diameter smooth wall SDR 17 HDPE Pipe for sewer installed in trench with compacted backfill, trench depth greater than 2 meters to pipe inv elev.	M	76		\$0
3.05	U-10 - U-13 & U-22	Reinforced Concrete Sewer Manhole with Frame, Grate, Ladder Rungs, and all appurtenances. 1-2 meters from top of lid to floor of MH.	Ea.	6		\$0
3.06	U-10 - U-13 & U-22	Reinforced Concrete Sewer Manhole with Frame, Grate, Ladder Rungs, and all appurtenances. Greater than 2 meters from top of lid to floor of MH.	Ea.	3		\$0
3.07	U-94, U-95, U-96, U-97	Install Reinforced concrete Septic tank, including all material, work, labor and relevant accessories as per drawing and specs.	LS	1		\$0
3.08	U-98, U-99	Install leach field, including distribution boxes, pipes, fittings, geotextile fab, infiltration base and all accessories as detailed and indicated per drawings	LS	1		\$0
<b>Total</b>						<b>\$0</b>

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**Bill No. 4 Water Piping, Wells, and Water Storage Tank**

Item No.	Sheet No.	Description	Unit	Qty.	Unit Price	Price
4.01	U-90 - U-93	65 m <sup>3</sup> Potable Water Tank including internal overflow pipe, piping connections, level switches, roof hatch, ladders, and pipe supports integrated into the tank structure.	LS	1		\$0
4.02	U-90 - U-93	Water piping (steel or ductile iron) to serve the water tank. Includes pipe supports at base of tower, gate valves, heat tracing, and connections to water tank.	LS	1		\$0
4.03	U-30 - U31	Well construction including drilling, surface seal casing, casing, intake screen, filter pack, and well testing.	LS	1		\$0
4.04	U-30 - U31	Well Pump and controls, discharge piping, valving, and appurtenances, including heat tracing in well enclosure.	LS	1		\$0
4.05	A-10, S-08	Well Pump security enclosure, including metal cover plate and access hatch.	LS	1		\$0
4.06	U-40	Chlorine Disinfection System including dilution water supply line and the chlorine solution feed line. The chlorination system includes an HDPE hypochlorite powder dissolving tank, and an HDPE chlorine solution tank with a metering pump for injecting the chlorine solution into the discharge line of the well.	Ea.	1		\$0
4.07	A-02 - A-10, S-3 - S-7	Well Pump house--all structural and architectural work (excluding louvers), including the sidewalk and stairs.	LS	1		\$0
4.08	E-30	Well Pump house-- all electrical and instrumentation work (excluding that provided under the well pump specifications) as shown on Dwg E-30.	LS	1		\$0
4.09	M-01	Well Pump house-- Mechanical equipment (heaters, fans) and louvers as shown on dwg M-01	LS	1		\$0
4.10	U-10 , U-11 & U-21	Water Service Connections per detail on Dwg U-21, including gate valve, valve box, and connecting to existing stub-out.	Ea.	4		\$0
4.10A	U-10 , U-11 & U-23	Water Service Connections on the east side of the school, per detail on Dwg U-23. Includes connection to water main, piping, transition fitting HDPE/galv steel, gate valve, valve box, and connection to existing stub-out.	Ea.	4		\$0
4.10B	U-12 & U-20	Water service connection to the existing guardhouse in northwest corner of school property, per detail on Dwg U-20.	Ea.	1		\$0
4.11	U-10 - U-13	50mm Diameter SDR 17 HDPE Water Main including fittings, installed in trench with compacted backfill.	M	77		\$0
4.12	U-10 - U-13	100mm Diameter SDR 17 HDPE Water Main including fittings, installed in trench with compacted backfill.	M	232		\$0
4.13	U-10 - U-13	160mm Diameter SDR 17 HDPE Water Main including fittings, installed in trench with compacted backfill.	M	77		\$0
4.14	U-10 - U-13	Buried Gate valves w/ valve box and 1x1m square concrete pad.	Ea.	6		\$0
4.15	S-10	Elevated Water Tank: Foundation including excavation, concrete and reinforcement steel.	LS	1		\$0
4.16	S-12 - S-17	Elevated Water Tank: Structural Steel Tower, including structural steel, shipping, and construction.	Kg	38555		\$0
<b>Total</b>						<b>\$0</b>

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**Bill No. 5 Power Supply**

Item No.	Sheet No.	Description	Unit	Qty.	Unit Price	Price
5.01	E-02, E-20.1, E-20.2	Concrete electrical hand holes, see drawing E 20,2.	Ea.	14		\$0
5.02	E-02, E-03, E-10, and E-20	Electrical Ductbank trenches, including all raceway and conductors between the secondary unit substation and the service disconnects and panels as indicated in the electrical drawings.	LS	1		\$0
5.02A	E-02, E-20	Ductbank concrete encasement on the east side of the school per the detail on Dwg E-20.	M	54		\$0
5.03	U-90, U-91	Electrical conduit and wiring to serve the heat tracing systems on the water lines on the water tower, as well as the level control switches in the water tank.	LS	1		\$0
5.04	E-03, E-30	Manual Transfer Switch (30-Amp)	Ea.	1		\$0
5.05		Off-site electrical materials for connection with Estiqjal Hospital power station. Installation to be performed by DABS. Materials include copper cable (1x70mm <sup>2</sup> or 1x95mm <sup>2</sup> CU, 20-24 KV, XLPE), cable termination kit, thermal joint material for KTP compartment, insulated copper wire (4x2.5mm <sup>2</sup> ), fine sand, and 6" dia. zinc pipe with bushings/joints.	LS	1		\$0
<b>Total</b>						<b>\$0</b>

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**Bill No. 6**                      **Miscellaneous Site Items**

<b>Item No.</b>	<b>Sheet No.</b>	<b>Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Unit Price</b>	<b>Price</b>
6.01	C-12, C-13, C-32, C-33	Chain Link Security Fence including all related appurtenances as shown on Sheets C-12 to C-13, C-32, C-33.	M	66		\$0
6.02	C-12, C-13, C-32, C-33	Chain Link Security Fence Single Swing Gate as shown on Sheets C-12 to C-13. Gate posts and gate frame are lighter weight per the detail sheets C-32 and C-33 to make this material locally available.	Ea.	2		\$0
6.03	C-12, C-13	Parking Space Pavement marking - 100mm Painted Yellow Stripe as shown on Sheets C-12, C-13	M	102		\$0
6.04	C-12 & C-30	3 x 0.96 m square tube steel fabricated bicycle rack as shown on Sheet C-30.	LS	1		\$0
6.05	C-02, C-03, C-11, C-21, U-01, U-11	"Contingency Gate" East Perimeter Wall.	LS	1		\$0
6.06	None	Commemorative Marble Plaques (two)	LS	1		\$0
6.07	None	Allowance for Landscaping Activities	LS	1		\$0
<b>Total</b>						<b>\$0</b>

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