

BILLS OF QUANTITIES

**CLIENT: GUYANA POWER AND LIGHT INC.
PROJECT: CONSTRUCTION OF EXTERNAL SHED AND UPGRADING OF
CONDUCTOR YARD SOPHIA COMPLEX, GREATER
GEORGETOWN**



SUMMARY OF BILLS

BILL No.	DESCRIPTION	AMOUNT (\$)
1	PRELIMINARIES	
2	COMPOUND & DRAIN WORKS	
3	EXTERNAL SHED	
	SUB TOTAL	
	Contingency (10%)	
GRAND TOTAL TO FORM TENDER		

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BILL No.1: PRELIMINARIES

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1.1	Provide the means of access to site and mobilize equipment, plant and personnel including any necessary facilities for personnel and demobilize same at the completion of the works	Sum	
1.2	Allow for the cost of a Performance Bond (10% of Contract Sum to cover both construction and defects liability period)	Sum	
1.3	Allow for Mobilization Advance Bond if required (15% of contract sum)	Sum	

1.4	Allow for all necessary safety signs, safety tapes, barricades etc. to be used during the contract period, same must be removed after project is completed.	Sum	
1.5	Provide for the protection of all sections of work from the inclement weather. If works are deem damaged by the Engineer because of the weather the Contractor will have to replace those materials at his own expense.	Sum	
BILL NO. 1 - TOTAL CARRIED TO SUMMARY					

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BILL No.2: COMPOUND & DRAIN WORKS



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Excavation Works				
2.1	Provide for the excavation of existing soil to a depth of 22" to construct an internal drain to the extreme eastern end of conductor's yard measuring: 125' long x 12" wide x 12" deep.	Cu.yd	17		
2.2	Allow for the excavation of all soil from soft and failed areas.	Cu.yd	20		
	Earth Works				
2.3	Allow for the grading and levelling of the entire compound measuring: 125' wide x 180' long	Sq.yd	2,500		
2.4	Supply, place and compact (to 95% proctor density) 4" thk. white sand to foundation of internal drain.	Cu.yd	3		
2.5	Supply, place and compact white sand/sand clay (60:40 mix) to 98% proctor density to fill excavated areas.	Cu.yd	25		

2.6	Supply, place, grade, shape and compact 3" thk. First Grade, 2" minus crusher run to entire compound	Cu.yd	210		
2.7	Allow for backfilling to drain using the excavated materials.	Cu.yd	10		
	Formwork				
2.8	Supply and install rough formwork. Rate is inclusive of straps, pickets, etc.	Sq.yd	74		
	Construction Plastic				
2.9	Supply and install 500 DPM below and to the sides of drain foundation, rate to cater for appropriate laps.	Sq.yd	33		
	Reinforcements				
2.1	Supply, bend and install 3/8" dia. MS bars for foundation and walls @ 8" ctrs, both directions.	Lbs	475		
	Blinding				
2.11	Supply and install 2" thk. 1:6 cement/sand mix blinding to accommodate drain foundation	Sq.yd	23		
	Concrete Works				
	Supply ,place and compact structural concrete 3,650 PSI at 28 days to:				
2.12	Drain as per drawing (4" thk.)	Cu.yd	6.5		
BILL No. 2 - TOTAL CARRIED TO SUMMARY					

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BILL No.2: COMPOUND & DRAIN WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BILL No. 2 - TOTAL CARRIED TO SUMMARY					
	Drainage Pipes				

2.13	Allow for the installation of 5" long weeping holes to drain wall using 3/4" dia. PVC pipes. Pipe will be placed at 10' intervals.	Nr	13		
2.14	Supply and install 4" dia. PVC pressure pipe to southern end of drain. Rate to cater for excavation and backfilling to install same.	Ln.ft	15		
BILL No. 2 - TOTAL CARRIED TO SUMMARY					

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BILL No.3: EXTERNAL SHED

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Excavation Works				
3.1	Provide for the excavation for 24" x 24" x 16" depth isolated pad foundations	Cu.yd	5		
	Earth Works				
3.2	Supply, place and compact (to 95% proctor density) 4" thk. white sand to isolated pad foundation	Cu.yd	2		
	Blinding				
3.3	Supply and install 2" thk. 1:6 cement/sand mix blinding to accommodate isolated pad foundations.	Sq.yd	16		
	Formwork				
3.4	Supply and install rough formwork for pad foundation and pedestal. Rate is inclusive of straps, pickets, etc.	Sq.yd	39		
	Construction Plastic				
3.5	Supply and install 500 DPM to bottom and sides of isolated pad foundations.	Sq.yd	42		
	Reinforcements				
3.6	Supply, bend and install 1/2" dia. HT U-bars for foundation 8" ctrs, both directions.	Lbs	840		

3.7	Supply, bend and install 1/2" dia. HT Main bars for pedestal.	Lbs	140		
3.8	Supply, bend and install 1/4" dia. MS bars for stirrups for pedestal @ 6" ctrs.	Lbs	27		
3.9	Supply and install 5/8" dia. X 12" long, full thread MS bolts (grade 8) to secure column base plate, inclusive of nut and washer. Bolts will be fixed into pedestal before concrete is poured.	Nr	140		
	Concrete Works				
	Supply, place and compact Structural Concrete 3,650 PSI at 28 days to:				
3.1	Isolated Pad Foundation measuring: 24" x 24" x 10" (35 nr.)	Cu.yd	4.5		
3.11	Pedestal measuring: 10" x 10" x 1' high (35 nr.)	Cu.yd	1.1		
	Structural Metal Framing				
3.12	Supply and install 4" dia. X 1/4" thk. @ 9.88 Lbs/Ft Galvanized Pipe for columns as shown in drawing.	Lbs	5,200		
3.13	Supply and install 9" x 9" x 1/4" thk. Steel plate for column Base Plate, same will be welded to bottom of 4" dia galvanized pipe with all necessary flanges and drilled to accommodate 4 nr. 5/8" dia. MS bolts.	Nr	35		
BILL No. 3 - TOTAL CARRIED FORWARD					

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BILL No.3: EXTERNAL SHED



ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD					

	Structural Metal Framing			
3.14	Supply, weld and install Truss as shown, using 2" x 2" x 1/8" thk. MS hollow section @ 2.86 Lbs/Ft	Lbs	5,410	
3.15	Supply and install 2" x 4" x 5/16" @ 6 Lbs/Ft steel channel @ 4' ctrs for rafter. Rate to cater for all necessary unions, including plates, bolts and welding. Cater for 36" laps to ends.	Lbs	12,705	
3.16	Supply and install 2" x 2" x 3/8" thk. @ 4 Lbs/Ft Angle iron, including all plates and bolts for horizontal support for each column.	Lbs	2,336	
3.17	Fabricate and install 2" x 2" x 1/8" thk. MS cleats for rafter support. Rafter will be weld to each cleat.	Nr	145	
3.18	Supply and install 1/2" dia. X 9" long, full thread MS bolts to Truss to Columns. Rate to cater for all drilling works.	Nr	70	
	Timber Works			
3.19	Supply and install 1" x 6" Kabukalli Laths @ 3' ctrs	Bm	2,763	
3.2	Supply and install 1" x 6" GH Fascia	Bm	294	
	Roofing			
3.21	Supply and install 28 guage BLUE pre-painted corrugated galvanized roofing sheets to shed, inclusive of zinc screws, neoprene washers and water resistant clear silicone to seal same.	Sq.yd	1,793	
	Guttering			
3.22	Provide for the installation of 6" square profile PVC guttering, this is inclusive of brackets, joints, stop ends, etc.	Ln.ft	221	
3.23	Supply and install downspout	Nr	4	
3.24	Supply and install 2" dia PVC down pipe, rate to cater for straps, bends, etc.	Ln.ft	72	
	Painting			
3.25	Provide for the application of one (1) prime coat and two (2) finishing coats of Blue anti-corrosive paint to all new metal surfaces.	Sq.yd	590	
3.26	Provide for the application of one (1) nr. prime coat and two (2) nr. Finishing coats of Oil paint to all timber members.	Sq.yd	480	

BILL No. 3 - TOTAL CARRIED TO SUMMARY

