

GUYANA POWER AND LIGHT INC.

FACILITIES MANAGEMENT DEPARTMENT

PROJECT: CONSTRUCTION OF 25,000 GAL FUEL TANK BASE, GUARD HUT, T&D AND GENERATIONS STORES  
AND EXTENSION OF POWER STATION BUILDING AT LEGUAN POWER STATION

**SUMMARY OF BILLS**

<b>BILL No.</b>	<b>DESCRIPTION</b>	<b>AMOUNT (\$)</b>
1	PRELIMINARIES	
2	FUEL TANK BASE & BUND WALL	
3	OILY WATER SEPARATOR	
4	CONSTRUCTION OF GUARD HUT( ELEVATED)	
5	EXTENTION OF POWER STATION	
6	CONSTRUCTION OF T&D AND GENERATION STORES	
	<b>SUB TOTAL</b>	
	<b>Add Contingency (10%)</b>	
<b>GRAND TOTAL TO FORM TENDER</b>		

GUYANA POWER AND LIGHT INC.  
 FACILITIES MANAGEMENT DEPARTMENT  
 PROJECT: CONSTRUCTION OF 25,000 GAL FUEL TANK BASE, GUARD HUT, T&D AND GENERATIONS STORES  
 AND EXTENSION OF POWER STATION BUILDING AT LEGUAN POWER STATION

BILL No.1: PRELIMINARIES

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT \$
1.0	<b>PRELIMINARY PARTICULARS</b>				
1.1	Funding The funding shall be provided by the Guyana Power & Light Inc., of 40 Main street, North Cummingsburg, Georgetown.				
1.2	Engineer The Engineer shall be the Civil Engineer - Administrative Department, Guyana Power & Light Inc.				
1.3	Contract The Bills of Quantities have been prepared in accordance with the General Conditions of contract, Form of Tender and Agreement. The Conditions of contract should be carefully read as such conditions may have a considerable bearing on the tender.				
1.4	Quantities The quantities shown in the Bills have been measured net, as fixed in position, and the bidder shall allow in his prices for waste, laps, etc. The quantities given are thus generally not suitable for the ordering of materials.				
1.5	Provisional Sum The term 'Provisional Sum' shall mean a sum provided for works or for costs which cannot be entirely foreseen, defined or detailed at the time the tender documents are prepared. Such sums shall be used in whole or in part as directed by the Engineer & shall be deemed to be inclusive of any profit required by the contractor, unless otherwise indicated.				
1.6	Description of Site The site of the proposed works is located at GPL Main St G/Town Locations, Region No. 4				
1.7	Description of Works The works consists of construction of 3 numbers of concrete elevated Guard gut at Sophia				
1.8	Visiting the Site  The Contractor is advised to visit the site of the proposed Works in order to ascertain the prevailing site conditions and to obtain all information necessary for costing and executing the Works.				
	<b>CARRIED FORWARD</b>				

GUYANA POWER AND LIGHT INC.  
FACILITIES MANAGEMENT DEPARTMENT  
PROJECT: CONSTRUCTION OF 25,000 GAL FUEL TANK BASE, GUARD HUT, T&D AND GENERATIONS STORES  
AND EXTENSION OF POWER STATION BUILDING AT LEGUAN POWER STATION

**BILL No.1: PRELIMINARIES**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT \$
	<b>BOUGHT FORWARD</b>				
<b>2.0</b>	<b>BILL Nr1 - PRELIMINARIES</b>				
	<b>GENERAL MATTERS</b>				
	Allow for the following General Matters in the Unit Rates of Measured Work.				
A.	Plant and Tools.				
B.	Setting out the works.	sum			
C.	Holiday with pay.				N/A
D.	Transportation of materials and plant.				N/A
E.	Site organization with regards to employment of Foreman-in-Charge, Storekeeper, Cleaner, and Security Guard.				
F.	Lighting and Power.	sum			N/A
G.	Programme and progress Chart.	sum			N/A
H.	Collection & payment of NIS contributions.	sum			
<b>3.0</b>	<b>TEMPORARY WORKS</b>				
	Allow for the following Temporary Works, constructed to the Engineer's satisfaction, and for dismantling and removing from site on completion.				
A.	Toilet & Washing facilities for GPL supervisor and Contractors staff.	Sum			N/A
B.	Mass area for workers and barrier to prevent persons from coming into contact with the works.	Sum			N/A
C.	Provide storage and workshop facilities	Sum			N/A
D.	Provide a suitable furnished site office of size 15' x 15'.	Sum			N/A
E.	Provide water for the works	Sum			
F.	Provide all scaffolding necessary for the works	Sum			N/A
G.	Provide for the protection of all sections of the Works from inclement weather	Sum			
H.	Allow a Provisional Sum for the testing of concrete to be incorporated in the Works	Prov. Sum			
	<b>CARRIED FORWARD</b>				

GUYANA POWER AND LIGHT INC.  
FACILITIES MANAGEMENT DEPARTMENT  
PROJECT: CONSTRUCTION OF 25,000 GAL FUEL TANK BASE, GUARD HUT, T&D AND GENERATIONS STORES  
AND EXTENSION OF POWER STATION BUILDING AT LEGUAN POWER STATION

BILL No.1: PRELIMINARIES

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT \$
	BOUGHT FORWARD				
4.0	OTHER MATTERS				
A.	Allow for the following Insurance's: (1) Contractor's All Risk Insurance The Insurance must be for the entire contract period. (Construction Period + Defects Liability Period)	Sum			N/A
	(2) Public Liability Insurance The Insurance must be for the entire contract period. (Construction Period + Defects Liability Period)	Sum			N/A
	(3) Employer's Liability Insurance The Insurance must be for the entire contract period. (Construction Period + Defects Liability Period)	Sum			N/A
B.	Allow for surety for providing Mobilization Advance.	Sum			
C.	Allow for surety for providing Performance Bond. Bond to be valid until the defects liability period has expired.	Sum			N/A
D.	Allow for progress photographs, 12 exposures per month.	Sum			N/A
E.	Allow for clearing the site of all vegetation, and maintaining same during the execution of the project.	Sum			N/A
F.	Allow for the removal of construction debris.	Sum			
G.	Allow for the safety and health of workers and keep on site an adequate First Aid Kit.	Sum			
H	Allow for Mobilisation and demolition of tools, equipment and materials on site	Sum			
BILL No. 1 - TOTAL CARRIED TO SUMMARY					

GUYANA POWER AND LIGHT INC.  
 FACILITIES MANAGEMENT DEPARTMENT  
 PROJECT: CONSTRUCTION OF 25,000 GAL FUEL TANK BASE, GUARD HUT, T&D AND GENERATIONS STORES  
 AND EXTENSION OF POWER STATION BUILDING AT LEGUAN POWER STATION

BILL No.2: FUEL TANK BASE & BUND WALL

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (\$)
	<u>Temporary Works</u>				
2.01	Allow a sum for dismantling of timber guard hut as directed by engineer	Sum			
	<u>Temporary Concrete Based to receive Stanchion- 10' x 20'</u>				
2.02	Excavate existing ground surface to a depth not exceeding 1' 8"" depth for the construction of RC slab.	Cu.yd	15		
2.03	Supply, place and compact (to 95% proctor density) 6" thk. white sand to foundation slab	Cu.yd	4		
2.04	Supply, place and install rough formwork to sides of slab	Sq.yd	7		
2.05	Supply and install 2" thk. 1:6 cement/sand mix blinding to accommodate foundation	Sq.yd	25		
2.06	Supply and install 500 guage DPM (construction plastic), rate to cater for all necessary laps.	Sq.yd	25		
2.07	Supply, place and install 1/2" dia. HT steel bars to foundation, both directions @ 8" ctrs. (double mat). Rate to cater for spacers, laps, binding wire, etc.	Lbs	650		
2.08	Supply, transport, pour and compact "Ready Mixed" structural concrete 3500 psi at 28 days to base slab measuring: 10' wide x 20' long x 12" thk.	Cu.yd	8		
2.09	Fabrication of saddle as shown in drawings. 3' Depth x 10' long x flange width of 14" wide reinforced with stiffeners at 14" c/c. Diameter of fuel tank is 10'. Rate to include for anchor bolts unto concrete slab. Rates to included for application of three (3) coats of epoxy paint .	No	3		
2.10	Allow a sum for dismantling of existing fuel tank, lifting to position and placing unto temporary saddle as directed. Reassemble to all other connections. Rates to reconnecting of fuel pipe lines to existing	Sum			
2.11	Allow for demolishing of existing Reinforced concrete based and bund wall as directed by engineer.	Sum			
BILL No. 2 - TOTAL CARRIED FORWARD					



PROJECT: CONSTRUCTION OF 25,000 GAL FUEL TANK BASE, GUARD HUT, T&D AND GENERATIONS STORES  
AND EXTENSION OF POWER STATION BUILDING AT LEGUAN POWER STATION

BILL No.2: FUEL TANK BASE & BUND WALL

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (\$)
	<b>TOTAL BROUGHT FORWARD</b>				
	<b>New Tank Foundation</b>				
2.12	Excavate existing ground surface to a depth not exceeding 1' 8" depth for the construction of RC slab.	Cu.yd	50		
2.13	Supply, place and compact (to 95% proctor density) 6" thk. white sand to foundation slab	Cu.yd	15		
2.14	Supply, place and install rough formwork to sides of slab	Sq.yd	15		
2.15	Supply and install 2" thk. 1:6 cement/sand mix blinding to accommodate foundation	Sq.yd	67		
2.16	Supply and install 500 guage DPM (construction plastic), rate to cater for all necessary laps.	Sq.yd	80		
2.17	Supply, place and install 1/2" dia. HT steel bars to foundation, both directions @ 8" ctrs. (double mat). Rate to cater for spacers, laps, binding wire, etc.	Lbs	2,725		
2.18	Supply, place and install 1/2" dia. HT steel bars to stanchions @ 6" ctrs, both directions. Rate to cater for spacers, laps, binding wire, etc.	Lbs	780		
2.19	Supply, transport, pour and compact "Ready Mixed" structural concrete 3500 psi at 28 days to base slab measuring: 15' wide x 40' long x 12" thk.	Cu.yd	26		
2.20	Supply, transport, pour and compact "Ready Mixed" structural concrete 3500 psi at 28 days to stanchion measuring: 24' wide x 10' long x 24" high at ends x 12" high in the centre. (4 nr)	Cu.yd	6.8		
	<b>Bund Wall</b>				
2.21	Excavate existing ground surface to a depth not exceeding 12" depth for the construction of strip foundation.	Cu.yd	15		
2.22	Supply, place and compact (to 95% proctor density) 4" thk. white sand to foundation	Cu.yd	4.5		
2.23	Supply, place and install rough formwork to sides of strip foundation	Sq.yd	25		
2.24	Supply and install 2" thk. 1:6 cement/sand mix blinding to accommodate foundation	Sq.yd	32		
<b>BILL No. 2 - TOTAL CARRIED FORWARD</b>					

PROJECT: CONSTRUCTION OF 25,000 GAL FUEL TANK BASE, GUARD HUT, T&D AND GENERATIONS STORES  
AND EXTENSION OF POWER STATION BUILDING AT LEGUAN POWER STATION

BILL No.2: FUEL TANK BASE & BUND WALL

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (\$)
TOTAL BROUGHT FORWARD					
2.25	Supply and install 500 guage DPM (construction plastic), rate to cater for all necessary laps.	Sq.yd	55		
2.26	Supply, place and install 1/2" dia. HT steel main bars to foundation @ 8" ctrs. Rate to cater for spacers, laps, binding wire, etc.	Lbs	460		
2.27	Supply, place and install 3/8" dia. MS U-bars to foundation @ 8" ctrs. Rate to cater for spacers, laps, binding wire, etc.	Lbs	160		
2.28	Supply, place and install 3/8" dia. x 4' long HT vertical L-shaped bars as HCB wall reinforcement @ 16" ctrs. Bars must be secured to foundation reinforcement before concrete is poured for foundation. Rate to cater for spacers, laps, binding wire, etc.	Lbs	220		
2.29	Supply, transport, pour and compact "Ready Mixed" structural concrete 3500 psi at 28 days to strip foundation measuring: 18" wide x 160' long x 6" thk.	Cu.yd	5.7		
2.30	Supply and install 6" x 8" x 16" H.C.B laid in stretcher bond 1:3 cement/sand mortar for wall, all cavities must be filled with 3,500 psi structural concrete mix. (4" high)	Sq.yd	72		
2.31	Provide for the rendering of all concrete surfaces with 1/2" thick 1:3 cement/sand mix inclusive of smooth float finish or any other finish as recommended by the Engineer.	Sq.yd	160		
	<b>Floor Slab</b>				
2.32	Provide for the grubbing and removal of all vegetation from entire area where floor slab is to be constructed around constructed fuel tank base..	Sq.yd	115		
BILL No. 2 - TOTAL CARRIED FORWARD					

PROJECT: CONSTRUCTION OF 25,000 GAL FUEL TANK BASE, GUARD HUT, T&D AND GENERATIONS STORES  
AND EXTENSION OF POWER STATION BUILDING AT LEGUAN POWER STATION

BILL No.2: FUEL TANK BASE & BUND WALL

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (\$)
	<b>TOTAL BROUGHT FORWARD</b>				
2.33	Supply and install 500 guage DPM (construction plastic), rate to cater for all necessary laps.	Sq.yd	115		
2.34	Supply, place and install No. 65 BRC to slab, rate to cater for all laps which must be 12" minimum.	Sq.yd	115		
	Supply, transport, pour and compact "Ready Mixed" structural concrete 3500 psi at 28 days to floor slab 4" thk. Smooth float finish, allow for a grade for drainage of surface water.	Cu.yd	15		
2.35	Upon curing of concrete works , allow for providing equipment/ machine for lifting unto position 25,000gal fuel tank and assemble unto new tank based as directed by engineer.	Sum			
	<u><b>Other Works</b></u>				
2.36	Provide for the construction of a R.C. intake pump base, same must be: 2' wide x 3' long x 6" high and place within the bund wall and with bolts embedded into concrete to secure pump.	Sum	...		
2.37	Supply and install 2" x 6" x 5/16" "C" steel channel for stringer and frame for walkway to access top of fuel tank.	Ln.ft	80		
2.38	Supply and install 7" wide x 3' long x 2" thk. metal grate threaders	Nr	15		
2.39	Supply and install 2" thk. Metal grate decking for walkway area.	Sq.yd	9		
2.40	Supply and install 1 1/2" dia. Galvanized pipe for safety rails to step. Vertical supports should be 3' high and a centre rail must be inserted for additional support.	Ln.ft	240		
2.41	Supply and install 3" x 3" x 3/8" thk. Angle Iron for columns and for support to walkway.	Ln.ft	60		
2.42	Provide for the construction of R.C. bases for step and columns, step should be: 18" wide x 3' 6" long x 6" thk. And 12" x 12" x 6" for columns. Rate to cater for steel works and concrete works.	Sum	...		
2.43	Provide for the fabrication of brackets, welding same to metal frame and securing same with bolts to secure main structure and safety rails	Sum	...		
2.44	Provide for the application of two (2) finishing coats of anti-corrosive paint to all metal surfaces.	Sum	...		
<b>BILL No. 2 - TOTAL CARRIED TO SUMMARY</b>					



GUYANA POWER AND LIGHT INC.  
FACILITIES MANAGEMENT DEPARTMENT

PROJECT: CONSTRUCTION OF 25,000 GAL FUEL TANK BASE, GUARD HUT, T&D AND GENERATIONS STORES  
AND EXTENSION OF POWER STATION BUILDING AT LEGUAN POWER STATION

BILL No.3: OILY WATER SEPARATOR

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (\$)
	<b>Structural Works</b>				
3.1	Excavate existing ground surface to a depth not less than 48" depth for the construction of oily water separator	Cu.yd	4		
3.2	Supply, place and compact (to 95% proctor density) 4" thk. white sand to foundation slab	Cu.yd	0.5		
3.3	Supply, place and install rough formwork to sides of slab	Sq.yd	1.5		
3.4	Supply and install 500 guage DPM (construction plastic), rate to cater for all necessary laps.	Sq.yd	4		
3.5	Supply, place and install No. 65 BRC to foundation slab, rate to cater for all laps which must be 12" minimum.	Sq.yd	3		
3.6	Supply, place and install 3/8" dia. x 5' long HT vertical L-shaped bars as HCB wall reinforcement @ 16" ctrs. Bars must be secured to foundation reinforcement before concrete is poured for foundation. Rate to cater for spacers, laps, binding wire, etc.	Lbs	30		
3.7	Supply, transport, pour and compact "Ready Mixed" structural concrete 3500 psi at 28 days to foundation measuring: 4 wide x 6' long x 6" thk. & 18" x 18" x 4" thk.	Cu.yd	0.5		
3.8	Supply and install 6" x 8" x 16" H.C.B laid in stretcher bond 1:3 cement/sand mortar for wall, all cavities must be filled with 3,500 psi structural concrete mix. (5' high & 18" high)	Sq.yd	12		
3.9	Supply and install 4" x 8" x 16" H.C.B laid in stretcher bond 1:3 cement/sand mortar for spill weir and baffel wall.	Sq.yd	3.3		
3.10	Provide for the rendering of all concrete surfaces with 1/2" thick 1:3 cement/sand mix inclusive of smooth float finish or any other finish as recommended by the Engineer.	Sq.yd	30.6		
<b>BILL No. 3 - TOTAL CARRIED FORWARD</b>					

**PROJECT: CONSTRUCTION OF 25,000 GAL FUEL TANK BASE, GUARD HUT, T&D AND GENERATIONS STORES  
AND EXTENSION OF POWER STATION BUILDING AT LEGUAN POWER STATION**

**BILL No.3: OILY WATER SEPARATOR**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (\$)
	<b>TOTAL BROUGHT FORWARD</b>				
	<b>Ironmongery</b>				
3.11	Supply and install 18" x 18" x 1/8" thk. Corrugated sheet metal cover. Rate to cater for painting same with anti-corrosive paint.	Sq.yd	0.3		
3.12	Supply and install 4' x 6' x 2" thk. Metal grate decking. Rate to cater for painting same with anti-corrosive paint.	Sq.yd	2.7		
	<b>Plumbing Works</b>				
3.13	Supply and install 4" dia. PVC PRESSURE pipe	Ln.ft	25		
3.14	Supply and install 4" dia. Metal gate valve	Nr	1		
3.15	Supply and install 4" dia. PVC elbow	Nr	2		
3.16	Supply and install 4" dia. Tee	Nr	1		
3.17	Provide for necessary tape, PVC cement to connect pipes.	Sum			
<b>BILL No. 3 - TOTAL CARRIED TO SUMMARY</b>					

GUYANA POWER AND LIGHT INC.  
FACILITIES MANAGEMENT DEPARTMENT  
PROJECT: CONSTRUCTION OF 25,000 GAL FUEL TANK BASE, GUARD HUT, T&D AND GENERATIONS STORES  
AND EXTENSION OF POWER STATION BUILDING AT LEGUAN POWER STATION

**BILL NO. 4- Construction of Concrete Guard Hut (Elevated)**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT \$
	<b><u>New Elevated Concrete Guard Hut- 7' x 7'</u></b>				
	<b><u>Excavation</u></b>				
4.01	Excavation for foundation strip footing depth not exceeding 3' depth	Cu Yd	7		
4.02	Dewatering of excavation	Sum			
4.03	Level and compact excavated area filling all voids in soil.	Sq yd	7		
4.04	Backfill sides of foundations with approved material	Cu yd	5		
	<b><u>Sand Filling</u></b>				
	Supply and compact 6" thick sandfill as follows				
4.05	(A) Foundation	Cu yd	1.2		
	<b><u>Blinding (1:6 mix)</u></b>				
4.06	Place 2" thick blinding upon compacted white sand to foundations trenching	Sq yd	7		
	<b><u>Concrete</u></b>				
	<b><u>aggregate</u></b>				
4.07	Strip foundations- 24" Wide x 8" Thk	Cu Yd	1.5		
4.08	Columns - 8"x 8"	Cu Yd	1.4		
4.09	Beams- 8" x 8"	Cu Yd	1		
4.10	Slab- 6"	Cu Yd	1		
4.11	Stairs	Cu Yd	2		
	<b><u>Formwork</u></b>				
4.12	Provide vertical rough finish to sides of strip foundation	Sq yd	4		
	<b><u>Vertical fair finish to</u></b>				
4.13	Columns	Sq yd	20		
4.14	beam	Sq yd	10		
4.15	Slab	Sq yd	8		
4.16	Stairs	Sq yd	8		
	<b><u>Reinforcement</u></b>				
	<b><u>Mild Steel reinforcement in foundation</u></b>				
4.17	Place 1/2" dia. Main steel corrugated bars in foundation	lbs	150		
4.18	Place 3/8" dia. steel corrugated bars @ 8" crs as stirrups	lbs	85		
	<b><u>Mild Steel reinforcement in columns:</u></b>				
4.19	Place 1/2" dia. Main steel corrugated bars	lbs	215		
4.20	Place 3/8" dia. Steel corrugated bars @ 8" crs as stirrups	lbs	50		
	<b><u>Mild Steel reinforcement in Beams:</u></b>				
4.21	Place 1/2" dia. main steel steel corrugated bars into beams	lbs	160		
4.22	Place 3/8" dia. main steel steel corrugated bars into beams	lbs	50		
	<b><u>Mild Steel reinforcement in Floor Slab:</u></b>				
4.23	Place 1/2" dia. main steel steel corrugated bars into floor slab	lbs	280		
	<b><u>Mild Steel reinforcement in Stairs:</u></b>				
4.24	Place 1/2" dia. main steel steel corrugated bars into floor slab	lbs	394		
<b>Total Carried Forward</b>					



GUYANA POWER AND LIGHT INC.

FACILITIES MANAGEMENT DEPARTMENT

PROJECT: CONSTRUCTION OF 25,000 GAL FUEL TANK BASE, GUARD HUT, T&D AND GENERATIONS STORES

AND EXTENSION OF POWER STATION BUILDING AT LEGUAN POWER STATION

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT \$
Total Brought Forward					
	<b>Blockwork</b>				
4.25	Supply and fix in position 4" thk. hollow concrete block external walls in stretcher bond 1:3 cement/sand mortar	Sq yd	24		
	<b>Rendering</b>				
4.26	Cement sand 1:3 mix 1/2" thick to external, internal walls, columns, beams, etc's Include for reveals outlining doors and windows	sq yd	48		
	<b>Roof Member</b>				
4.27	2" x 4" GH rafters	Lin. Ft	28		
4.28	1" x 8" GH fascia board	Lin. Ft	44		
4.29	1" x 6" GH sheet laths	Lin. Ft	100		
4.30	2" x 4" GH Wall plate	Lin. Ft	28		
	<b>Doors Frames</b>				
4.31	2" x 6" GH door frame to external walls	Lin. Ft	17		
	<b>Door Jamb</b>				
4.32	1" x 3" GH door Jamb to external doors	Ln ft	17		
	<b>Door Facing</b>				
4.33	1" x 4" GH door facing to external door	Ln ft	17		
	<b>Doors</b>				
4.34	Supply and install Purple heart External panel 28" x 80" doors including for lacquering of door and the installation of one(1) mortise lock, three(3) heavy duty butt hinges and tower bolt to all external door	No.	1		
	<b>Roof Covering</b>				
4.35	Supply and fix in place prepainted corrugated profile 26 guage galvalum roof sheets including for laps and screws	sq yd	24		
	<b>Ceiling Members</b>				
4.36	1" x 3" GH noggins to take ply board ceiling	Ln ft	136		
4.37	Supply and fix 1/2" ( should have been 1/4 inch thick instead) ply boards to form ceiling. Include for moulding	Sq Yd	16		
	<b>Flashing</b>				
4.38	Supply and fix in place 26 guage x 36" wide prepainted flashing to ridge include for laps and screw	Lin. Ft	32		
	<b>Bat Proofing</b>				
4.39	Provide and apply Foam Insulation Sealant as bat proofing to perimeter of building	Lin Yd	120		
	<b>Windows</b>				
4.40	Aluminium frame window( sash) (a) Window opening( 24" x 48')	No.	3		
	<b>Hand rails</b>				
4.41	Provide for supplying, fabricate and fix in position 2" galvanized pipe for hand rail, allow for vertical support to be fix a minimum of 6" into stairs beam fitted with crabs & the top rail and mid-rail fix to HCB wall with a 4" x 4" MS plate.	Ln Ft	80		
	<b>Gutters and Fittings</b>				
4.42	PVC Square line 6" Wide gutters including joining	Ln ft	44		
4.43	PVC Square line gutter support/ joint bracket fixed to fascia boards at 2' -0" centres	No.	30		
4.44	PVC Running outlet	No.	2		
4.45	Corner Joint	No.	4		
	<b>Down Pipe and fittings</b>				
4.46	PVC 3" Square line down pipes	Ln ft	60		
4.47	PVC 3" down pipe strap @4' c/c	No.	40		
4.48	PVC 3" 90° bend	No.	8		
Total Carried Forward					

GUYANA POWER AND LIGHT INC.

FACILITIES MANAGEMENT DEPARTMENT

PROJECT: CONSTRUCTION OF 25,000 GAL FUEL TANK BASE, GUARD HUT, T&D AND GENERATIONS STORES

AND EXTENSION OF POWER STATION BUILDING AT LEGUAN POWER STATION

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT \$
Total Brought Forward					
4.49	<u>Painting</u> Apply one prime coat and two finishes coats to all concrete surfaces including exterior and interior wall, beams, columns, etc. Including for filing and cleaning	Sq yd	81		
4.50	<u>Oil Paint</u> Apply one prime coat and two finishing coats to all timber surfaces including door jams, door frames, fascia, etc. Include for filing and cleaning	Sq yd	20		
4.51	One primer and two finishing coats to ply board ceiling including for cleaning and filling	Sq yd	16		
4.52	<u>Floor Finish</u> Supply and fix in position 12" x 12" Porcelain tiles to floors of guard hut jointed in cement/sand mortar (tinset)	Sq yd	16		
BILL No. 4 - TOTAL CARRIED TO SUMMARY					



GUYANA POWER AND LIGHT INC.

FACILITIES MANAGEMENT DEPARTMENT

PROJECT: CONSTRUCTION OF 25,000 GAL FUEL TANK BASE, GUARD HUT, T&D AND GENERATIONS STORES  
AND EXTENSION OF POWER STATION BUILDING AT LEGUAN POWER STATION

**BILL No.5: Extention of Power Station**

ITEM	DESCRIPTION	UNIT	QTY	RATE (\$)	AMOUNT (\$)
	<b>Extention of Power Station 30' length x 10' Width</b>				
	<b><u>Excavation</u></b>				
5.01	Excavate foundation trench not exceeding 3'-0" wide x 20" deep and dispose of material as directed by Engineer.	Cu.Yd	15		
5.02	Provide for keeping excavation free of water	Sum			
5.03	Level and compact bottom of excavation	Sq.Yd	17		
5.04	Provide and place 6" thick compacted white sand to bottom of excavation; white sand to be compacted to 95% Proctor Density.	Cu Yd	5		
5.05	Provide and place 12" thick compacted white sand to bottom of excavation; white sand to be compacted to 95% Proctor Density.	Cu Yd	12		
5.06	Provide and place 2" thk. 1:6 cement / sand blinding to below foundation.	Sq.Yd	17		
	<b><u>Concrete Works</u></b>				
	Provide and place 3000 psi reinforced concrete (-3/4" aggregate). (Reinforcement and formwork measured separately) Concrete mixing should not be mised by hands.				
5.07	Ditto foundation Strip 10" thk	Cu.Yd	5		
5.08	Ditto 5" thick Ground Floor Slab	Cu.Yd	5		
5.09	Ditto Main beams 10" wide x 10" deep	Cu.Yd	1.5		
5.10	Ditto Ground Floor columns 10" x 10"	Cu.Yd	1		
5.11	Ditto Lintels, hand rails and window sills	Cu.Yd	0.5		
	<b><u>Formwork</u></b>				
5.12	Ditto foundation Strip	Sq.Yd	15		
5.13	Ditto First Floor columns 10" x 10"	Sq.Yd	15		
5.14	Ditto Lintels, hand rails and window sills	Sq.Yd	2		
5.15	Ditto Main beams 10" wide x 10" deep	Sq.Yd	20		
<b>Total Carried Forward</b>					

ITEM	DESCRIPTION	UNIT	QTY	RATE (\$)	AMOUNT (\$)
	<b>Total Brought Forward</b>				
5.16	Ditto 4" thick First Floor Slab	Sq.Yd	6		
	<b><u>Reinforcement</u></b>				
	Provide and place m.s. reinforcement to beams, columns, kerb wall, stairs and strip foundation: <div style="margin-left: 40px;"> - 3/8 " dia bars  1/4 " dia  5/8 " dia bars  - 1/2" dia. bars </div>				
5.17	All measured	Lbs	1438		
5.18	Provide and place No. 65 BRC Fabric to ground floormake provision for end and side laps.	Sq yd	35		
5.19	Provide and place to concrete floor 500 guage DPM (construction plastic) make provision for end and side laps.	Sq yd	35		
	<b><u>BLOCK WORK</u></b>				
	Provide and place concrete hollow blocks, stretcher bond in 1" thk cement / sand mortar (1:3). Make allowance for laying around doors windows and the like				
5.20	Ditto 4" x 8" x 16" ExternalHollow blocks	Sq yd	60		
5.21	Ditto 4" x 8" x 16" Internal Hollow blocks	Sq yd	25		
	<b><u>Plaster Works</u></b>				
5.22	Provide and place 1/2" thk cement/sand plaster (1:3 mix mortar) to new faces of block work.	Sq.Yd	204		
	<b><u>Stair way and Kerb Wall</u></b>				
5.23	Provide and lay 6" x 8" x 16" hollow blcoks infill with mortor and 3/8"dia starter bars coming from strip foundation.	Sq yd	8		
	<b><u>CARPENTRY AND JOINERY</u></b>				
	<b><u>Main Roof</u></b>				
5.24	Provide and fix 2" x 4" dress GH plate to top of roof beam with anchor bolts at 5'-0" centres. (All members measured)	Lin ft	50		
5.25	Provide and fix 2" x 6" dress GH rafters at 3'-0" centres; make allowance for notching into plates, joints and the like.	Lin ft	182		
5.26	Provide and fix 2" x 8" dress GH ridge; make allowances for joints bolths to existing power station wall	Lin ft	36		
5.27	Provide and fix 1" x 10" dress GH fascia boards; make allowance for mytering corners and the like.	Lin ft	64		
	<b>Total Carried Forward</b>				

ITEM	DESCRIPTION	UNIT	QTY	RATE (\$)	AMOUNT (\$)
	<b>Total Brought Forward</b>				
5.28	Provide and fix 1" x 6" dress GH sheet lathes; make allowance for mytering corners and the like.	Lin ft	108		
	<b><u>Doors</u></b>				
5.29	Supply and install Purple heart External panel doors including for lacquering of door and the installation of one(1) mortise lock, three(3) heavy duty butt hinges and two(2) 6" tower bolt to all external door	No.	1		
5.30	Supply and install Clear Pine panel single door (26" x 76"), rate to include for YALE/UNION mortise locks, heavy duty butts, door handles and painting	Nr	2		
5.31	Provide and fix 2" x 6" dress GH door frames to wall openings; make allowance for joints and the like.	Lin ft	51		
5.32	Provide and fix 1" x 2" dress GH door jambs to door frame; make allowance for mytering corners and the like.	Lin ft	51		
5.33	Provide and fix 1" x 3" dress GH door facia to door frame; make allowance for mytering corners and the like.	Lin ft	102		
	<b><u>Ceiling Members</u></b>				
5.34	1" x 3" silverballi noggins to take ply board ceiling	Ln ft	360		
5.35	Supply and fix PVC Ceiling to pannel to form ceiling. Include for moulding. Including for eaves	Sq Yd	40		
	<b><u>Roof Covering</u></b>				
5.36	Supply and fix in place prepainted corrugated profile 26 guage galvalum roof sheets including for laps and screws	Sq Yd	52		
	<b><u>Flashing</u></b>				
5.37	Supply and fix in place 26 guage x 36" wide prepainted flashing to ridge include for laps and screw	Lin ft	36		
	<b><u>Windows</u></b>				
5.38	Aluminium frame window( sash) (a) Window opening( 24" x 48')	No	6		
	<b><u>Gutters and Fittings</u></b>				
5.39	PVC Square line 6" Wide gutters including joining	Ln ft	36		
5.40	PVC Square line gutter support/ joint bracket fixed to facia boards at 2'-0" centres	No.	18		
5.41	PVC Running outlet	No.	1		
	<b><u>Down Pipe and fittings</u></b>				
5.42	PVC 3" Square line down pipes	Lin ft	15		
<b>Total Carried Forward</b>					

ITEM	DESCRIPTION	UNIT	QTY	RATE (\$)	AMOUNT (\$)
	<b>Total Brought Forward</b>				
5.46	PVC 3" down pipe strap @4' c/c	No	5		
5.47	PVC 3" 90° bend	No	4		
	<b><u>Tiling</u></b>				
5.48	Provide and place High Quality Porcelain Floor Tile to floor as directed	Sq.Yd	36		
	<b><u>Painting</u></b>				
	Apply one prime coat and two finishes coats to all concrete surfaces including exterior and interior wall, beams, columns, etc. Including for filing and cleaning				
5.49		Sq yd	306		
	<b><u>Oil Paint</u></b>				
	Apply one prime coat and two finishing coats to all timber surfaces including door jams, door frames, fascia, etc. Include for filing and cleaning				
5.51		Sq yd	60		
	<b><u>Metal Lockers</u></b>				
	Supply and install industrial 2 doors metal locker 14" x 2' 6" x 5' 6" hight(0.6mm thick steel) completed with locks as directed by enginner.				
5.52	Apporval to be sought from GPL before purchase.	No	10		
	Supply and place mexin metal entrance door 80" x 38" including for all door frames neceaary. Rates to include for taking down exiting timber door and for widening opening to match new door to the power station control room.				
5.53		No	2		
	<b>BILL No. 5 - TOTAL CARRIED TO SUMMARY</b>				



GUYANA POWER AND LIGHT INC.  
FACILITIES MANAGEMENT DEPARTMENT

PROJECT: CONSTRUCTION OF 25,000 GAL FUEL TANK BASE, GUARD HUT, T&D AND GENERATIONS STORES  
AND EXTENSION OF POWER STATION BUILDING AT LEGUAN POWER STATION

**BILL No.6: T&D and Generation Stores**

ITEM	DESCRIPTION	UNIT	QTY	RATE (\$)	AMOUNT (\$)
	<b>Construction of 33' length x 13' Width</b>				
	<b>Demolition Works</b>				
	Allow for demolition of existing Bond storage and set aside materials as directed	Sum			
	<b>Excavation</b>				
6.01	Excavate foundation trench not exceeding 3'-0" wide x 20" deep and dispose of material as directed by Engineer.	Cu.Yd	25		
6.02	Provide for keeping excavation free of water	Sum			
6.03	Level and compact bottom of excavation	Sq.Yd	35		
6.04	Provide and place 6" thick compacted white sand to bottom of excavation; white sand to be compacted to 95% Proctor Density.	Cu Yd	7		
6.05	Provide and place 24" thick compacted white sand below floor slab; white sand to be compacted to 95% Proctor Density.	Cu Yd	35		
6.06	Provide and place 2" thk. 1:6 cement / sand blinding to below foundation.	Sq.Yd	35		
	<b>Concrete Works</b>				
	Provide and place 3000 psi reinforced concrete (-3/4" aggregate). (Reinforcement and formwork measured separately) Concrete mixing should not be mixed by hands.				
6.07	Ditto foundation Strip 10" thk	Cu.Yd	9		
6.08	Ditto 5" thick Ground Floor Slab	Cu.Yd	8		
6.09	Ditto Main beams 10" wide x 10" deep	Cu.Yd	3		
6.10	Ditto Ground Floor columns 10" x 10"	Cu.Yd	4		
6.11	Ditto Lintels, hand rails and window sills	Cu.Yd	0.2		
	<b>Formwork</b>				
6.12	Ditto foundation Strip	Sq.Yd	22		
6.13	Ditto First Floor columns 10" x 10"	Sq.Yd	48		
6.14	Ditto Lintels, hand rails and window sills	Sq.Yd	2		
6.15	Ditto Main beams 10" wide x 10" deep	Sq.Yd	30		
<b>Total Carried Forward</b>					



ITEM	DESCRIPTION	UNIT	QTY	RATE (\$)	AMOUNT (\$)
	<b>Total Brought Forward</b>				
6.16	Ditto 5" thick First Floor Slab	Sq.Yd	6		
	<b><u>Reinforcement</u></b>				
	Provide and place m.s. reinforcement to beams, columns, kerb wall, stairs and strip foundation:				
	- 3/8 " dia bars				
	1/4 " dia				
	5/8 " dia bars				
	- 1/2" dia. bars				
6.17	All measured	Lbs	3380		
6.18	Provide and place No. 65 BRC Fabric to ground floormake provision for end and side laps.	Sq yd	55		
6.19	Provide and place to concrete floor 500 guage DPM (construction plastic) make provision for end and side laps.	Sq yd	55		
	<b><u>BLOCK WORK</u></b>				
	Provide and place concrete hollow blocks, stretcher bond in 1" thk cement / sand mortar (1:3). Make allowance for laying around doors windows and the like				
6.20	Ditto 4" x 8" x 16" ExternalHollow blocks	Sq yd	130		
6.21	Ditto 4" x 8" x 16" Internal Hollow blocks	Sq yd	16		
	<b><u>Plaster Works</u></b>				
6.22	Provide and place 1/2" thk cement/sand plaster (1:3 mix mortar) to new faces of block work.	Sq.Yd	292		
	<b><u>Stair way and Kerb Wall</u></b>				
6.23	Provide and lay 6" x 8" x 16" hollow blcoks infill with mortor and 3/8"dia starter bars coming from strip foundation.	Sq yd	20		
	<b><u>CARPENTRY AND JOINERY</u></b>				
	<b><u>Main Roof</u></b>				
6.24	Provide and fix 2" x 4" dress GH plate to top of roof beam with anchor bolts at 5'-0" centres. (All members measured)	Lin ft	94		
6.25	Provide and fix 2" x 6" dress GH rafters at 3'-0" centres; make allowance for notching into plates, joints and the like.	Lin ft	460		
6.26	Provide and fix 2" x 8" dress GH ridge; make allowances for joints	Lin ft	60		
6.27	Provide and fix 1" x 10" dress GH fascia boards; make allowance for mytering corners and the like.	Lin ft	120		
<b>Total Carried Forward</b>					

ITEM	DESCRIPTION	UNIT	QTY	RATE (\$)	AMOUNT (\$)
	<b>Total Brought Forward</b>				
	<b><u>Doors</u></b>				
6.28	Supply and install Purple heart External panel doors including for lacquering of door and the installation of one(1) mortise lock, three(3) heavy duty butt hinges and two(2) 6" tower bolt to all external door	No.	2		
6.29	Supply and install Clear Pine panel single door (26" x 76"), rate to include for YALE/UNION mortise locks, heavy duty butts, door handles and painting	Nr	1		
6.30	Provide and fix 2" x 6" dress GH door frames to wall openings; make allowance for joints and the like.	Lin ft	51		
6.31	Provide and fix 1" x 2" dress GH door jambs to door frame; make allowance for mytering corners and the like.	Lin ft	51		
6.32	Provide and fix 1" x 3" dress GH door facia to door frame; make allowance for mytering corners and the like.	Lin ft	102		
	<b><u>Ceiling Members</u></b>				
6.33	1" x 6" T&G GH Closed to roof	Sq yd	160		
	<b><u>Roof Covering</u></b>				
6.34	Supply and fix in place prepainted corrugated profile 26 guage galvalum roof sheets including for laps and screws	Sq Yd	160		
	<b><u>Bat Proofing</u></b>				
6.35	Provide and apply Foam Insulation Sealant as bat proofing to perimeter of building	Lin ft	120		
	<b><u>Flashing</u></b>				
6.36	Supply and fix in place 26 guage x 36" wide prepainted flashing to ridge include for laps and screw	Lin ft	80		
	<b><u>Windows</u></b>				
6.37	Aluminium frame window( sash) (a) Window opening( 24" x 48')	No	2		
	<b><u>Gutters and Fittings</u></b>				
6.38	PVC Square line 6" Wide gutters including joining	Ln ft	120		
6.39	PVC Square line gutter support/ joint bracket fixed to facia boards at 2' 0" centres	No.	60		
6.40	PVC Running outlet	No.	2		
	<b><u>Down Pipe and fittings</u></b>				
6.41	PVC 3" Square line down pipes	Lin ft	35		
<b>Total Carried Forward</b>					

ITEM	DESCRIPTION	UNIT	QTY	RATE (\$)	AMOUNT (\$)
	<b>Total Brought Forward</b>				
6.42	PVC 3" down pipe strap @4' c/c	No	9		
6.43	PVC 3" 90° bend	No	8		
	<b><u>Tiling</u></b>				
6.44	Provide and place High Quality Porcelain Floor Tile to floor as directed	Sq.Yd	55		
	<b><u>Painting</u></b>				
	Apply one prime coat and two finishes coats to all concrete surfaces including exterior and interior wall, beams, columns, etc. Including for filing and cleaning				
6.45		Sq yd	380		
	<b><u>Oil Paint</u></b>				
	Apply one prime coat and two finishing coats to all timber surfaces including door jams, door frames, fascia, etc. Include for filing and cleaning				
6.46		Sq yd	60		
	<b><u>Metal racks /Shelves</u></b>				
	Supply, fabricate and install metal shelves with dimensions of 24" wide x 6' longs x 6" height with three (3) shelves. Racks will comprises 2" x 2" hollow sections as supports and 2" x 2" x 1/2" angles as support				
6.47	for decking/ shelves with 1/4" thk MS plating as shelves	No	6		
	<b>BILL No. 6 - TOTAL CARRIED TO SUMMARY</b>				