

## BILLS OF QUANTITIES

**CLIENT :** GUYANA POWER AND LIGHT INC.  
FACILITIES MANAGEMENT DEPARTMENT  
**PROJECT:** COMPLETION OF SOPHIA STORES BUILDING



BILL No.	DESCRIPTION	AMOUNT
1	PRELIMINARIES	
2	DAY WORKS	
3	DEMOLITIONS/ALTERATIONS	
4	SITE CLEARANCE	
5	CONCRETE WORKS	
6	BLOCKWORK	
7	PLASTER WORKS	
8	CARPENTRY AND JOINERY	
9	WINDOWS AND DOORS	
10	METAL WORKS	
11	ROOFING	

12	FINISHES	
13	PLUMBING INSTALLATIONS	
14	FITTINGS & FURNISHINGS	
15	ELECTRICAL INSTALLATIONS	
16	AIR CONDITIONING INSTALLATION	
17	SEPTIC TANK	
18	LIFT INSTALLATION	
19	WALKWAY	
20	PROVISIONAL SUM	<b>\$18,800,000.00</b>
	<b>SUB TOTAL</b>	
	<b>CONTINGENCY @ 10%</b>	
	<b>TOTAL</b>	

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NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<b>BILL Nr1 - PRELIMINARIES</b>				
1	<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 Senior Civil Engineer - Mr. Fenton Haynes. Address - Middle Street, Georgetown, Guyana. Tel. (592) 623-4057, 643-8960 - Administrartive Department, Guyana Power & Light Inc.				
1.3	Contract				
	The Bills of Quantities have been prepared in accordance with the drawings listed in the appendix, General Conditions of contract, Form of Tender and Agreement and utilizing Standard Method of Measurement 5th Edition. 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 Bill Nr. 3 to 15 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 Sophia, Georgetown.

1.7 Description of Works

Completing the construction of an existing building for the Procurement Department; overall footprint 150ft. X 75ft. The project includes the demolition of unwanted columns and beams, removal of vegetation and formwork, construct new walls, beams, columns, stairs, painting, tiling, electrical fixtures, plumbing among other items to works.

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.

**2 BILL Nr1 - PRELIMINARIES**

**GENERAL MATTERS**

Allow for the following General Matters in the Unit Rates of Measured Work.

A. Plant and small tools.

B. Setting out the works.

- C. Holiday with pay.
- D. Transportation of materials and plant.
- E. Site organization with regards to employment of Foreman-in-Charge, Surveyor Storekeeper, Cleaner, and Security Guard.
- F. Lighting and Power.
- G. Programme and progress Chart.
- H. Collection & payment of NIS contributions.

**3 TEMPORARY WORKS**

Allow for the following Temporary Works, constructed to the Engineer's satisfaction, and for dis-mantling and removing from site on completion.

- A. Toilet & Washing facilities for GPL supervisor and Contractors staff. Sum
- B Provide storage and workshop facilities including area for workers Sum
- C Provide a suitable furnished site office of size 15' x 15'. Sum
- D Provide water for the works Sum
- E Provide all scaffolding for the works Sum

**TEMPORARY WORKS TO SUMMARY - PG 4**

**BILL Nr1 - PRELIMINARIES**

**4 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)
  - (2) Public Liability Insurance  
The Insurance must be for the entire contract period.  
(Construction Period + Defects Liability Period)
  - (3) Employer's Liability Insurance  
The Insurance must be for the entire contract period.  
(Construction Period + Defects Liability Period)
- B. Allow for Mobilization Advance.
- C. Allow for Performance Bond. Bond must be valid until the issuance of the Practical Completion Certificate.
- D. Allow for progress photographs, 12 exposures per month.
- E Allow for First Aid Kit.
- F Allow for Personal Protective Equipment (PPE) for the workers.

Sum  
Sum  
Sum  
Sum  
Sum  
Sum

	<b>OTHER MATTERS TO SUMMARY - PG 4</b>				

**SUMMARY Bill NR 1 - PRELIMINARIES**

1	Preliminary Particulars				
2	General Matters				
3	Temporary Works				
4	Other matters				
	<b>PRELIMINARIES TO MAIN SUMMARY</b>				

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NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL

**A. GENERALLY**

In accordance with the day work clause in the conditions of Contract, where the Engineer orders work to be executed on a day work basis, the Contractor shall be paid for such work under the conditions of the day work schedule. Such payment shall be the sum of the prime cost, 1.2 calculated in accordance with the following "Definition of Prime Cost of Day Work" and the percentage additions to each section of the prime cost at the rates set out hereunder by the contractor, and recorded in the Appendix to the Conditions of Contract.

**B. DEFINITION OF PRIME COST OF DAY WORK**

**LABOUR**

- I The amount of wages paid at the rates applicable to work men on day work.
- II The amount of wages paid at the rates applicable to work men engaged on day work and operating mechanical plant and transport and erecting and dismantling other plant.
- III The time of principals, foreman, gangers, and leading hands at the time rates for the trades practiced, when actually working with there hands, unless when previously otherwise authorized.
- IV The cost of overtime where specifically ordered or subsequently sanctioned in writing by the Engineer as day work.

**MATERIALS**

- I The cost of materials including delivery to site.



II	Materials supplied from the Contractor's stock at current prices plus justifiable charges for handling and delivery to site.				
	<b>PLANT</b>				
I	Use of mechanically operated plant for the time engaged in the work. No allowance mace for idle time.				
A.	<p><b>BILL Nr. 2 - Day Work Cont'</b></p> <p><b>Use of scaffolding, staging, trestles, tarpaulins and other non-mechanical plant excluding tools, specifically provided on site for day work operation, for such time as the Engineer considers reasonable.</b></p> <p><b>OVERHEADS</b></p>				
I	<p>Overheads for the purpose of the Contractor shall mean the following:</p> <p>Head office charges</p> <p>Site supervision and site charges</p>				

	Time loss due to inclement weather			
	Bonus or other incentive payments			
	All other liabilities and obligations whatsoever			
II	Overheads as define above and profit shall be dealt with by means of a percentage addition to the totals of prime cost in each of the after mentioned sections at the rate stated herein after.			
<b>B.</b>	<b>PRIME COST</b>			
	Including the following sums for works which may be executed as day work.			
I	Materials	Prov Sum		600,000.00
II	Add percentage for overheads and profit.	%		
III	Labour	Prov Sum		350,000.00
IV	Add percentage for overheads and profit.	%		
V	Plant	Prov Sum		600,000.00
VI	Add percentage for overheads and profit.	%		

	<b>DAY WORK TO MAIN SUMMARY</b>			
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NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
<b>2</b>	<b>BILL NO.3 MEASURED WORKS</b> <b><u>DEMOLITIONS/ALTERATIONS</u></b> <u>Demolition Works</u>				
2.1	Carefully demolish existing defective reinforced concrete columns; 10" x 10" x 9' 6" high. Dispose of all unwanted materials offsite at Haag Boosch land fill site, Eccles, EBD (approximate quantity)	Nr	15		
2.2	Carefully demolish existing hollow concrete block walls; avg height 9' 0". Dispose of all unwanted materials from site at Haags Boosch land fill site, Eccles, EBD (approximate quantity)	Syd	35		
2.3	Carefully demolish existing reinforced concrete beams; cross sectional area exceeding 144 sq. in. Dispose of all unwanted materials from site at Haags Boosch land fill site, Eccles, EBD	sum	1		
2.4	Clean existing steel work by chipping and removing concrete mortar and apply Rust-out. Make good all works.	Sum	1		
2.5	Carefully remove all unwanted formwork from work area in way of construction.	sum	1		

2.6	Power washing all surfaces; columns, beams, walls and the like, to remove all algae/moss from surfaces.	sum	1		
2.7	Carefully remove all loose mortar and concrete; dispose of all unwanted materials offsite at Haags Boosch Landfill site, East Bank Demerara. Make good all surfaces disturbed	sum	1		
2.8	Carefully remove average 1" to 2" thick of concrete floor surface from ground floor; dispose all unwanted materials from site to Haags Boosch	Syd	950		
2.9	<u>Protection</u> Protection of works in this section	Sum	1		
<b>DEMOLITION &amp; ALTERATIONS TO SUMMARY</b>					

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NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<b>BILL NO.4 MEASURED WORKS</b>				

3	<b><u>SITE CLEARANCE</u></b>
	<u>Excavation/Earthworks</u>
3.1	Clear all shrubs/vegetation/obstacles/trees and grubbing of top soil (not more than six (6 inches), in way of construction works. Dispose of all unwanted materials offsite at Haags Boosch Landfill, Eccles, East Bank Demrara. (approximate quantity).
3.2	Clear all vegetation from ground floor area. Dispose of all unwanted materials offsite at Haags Boosch Landfill site, Eccles, East Bank Demerara.
	<u>Termite Treatment</u>
3.3	Demon TC termite treatment or equal and approved to excavated surfaces (approximate quantity)
	<u>Damp Proof Course</u>
3.4	500 guage polythene damp proof membrane lapped not less than 6" at joints; measured net with no allowance for laps
	<u>Protection</u>
3.5	Protection of works in this section

Syd

200

Syd

100

Syd

600

Syd

75

Sum

1

	<b>SITE CLEARANCE TO SUMMARY</b>				
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NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<b>BILL NO.5 MEASURED WORKS</b>				
	<b><u>CONCRETE WORKS</u></b>				
4	<b><u>Structural reinforced concrete 3000 psi at 28 days, using 3/4 minus and well-graded coarse aggregate. Placed into formwork and vibrated.</u></b>				
4.1	Pad foundation; overall size 3' x 3' x 18"	Cyds	3		
4.2	RC columns; 12"x 12 " on plan; to ground floor	Cyds	8		
4.3	RC columns; 10" x 10" on plan; to first floor	Cyds	7		
4.4	First floor beams; exceeding 144 square inches	Cyds	27		
4.5	Ground floor slab 4" thick	Cyds	24		
4.6	Suspended slab; 6" thick; first floor	Cyds	45		

4.7	6" thick suspended roof slab.	Cyds	174		
4.8	Perimeter beam; not exceeding 144 square inches	Cyds	45		
4.9	Internal stairs; generally	Cyds	18		
<b><u>High tensile reinforcement bars; to BS 4449. Minimum coverage for all steel should 2" from formwork. Includes bends, hooks, tying wire, distance blocks and ordinary spacers</u></b>					
4.1	5/8" dia. main bars; to columns, foundation, ground & first floor (approximate quantity)	Lbs	1650		
4.11	1/4" dia. stirrups at 9" centres; to ground and first floor columns (approximate quantity)	Lbs	900		
4.12	5/8" dia. main bars; to first floor beams. (approximate quantity)	Lbs	3200		
4.13	3/8" dia. stirrups at 9" centres; to first floor beams and pad foundation (approximate quantity).	Lbs	1200		
4.14	1/2" dia. main bars both ways @ 9" crs; to bottom of first floor slab (approximate quantity)	Lbs	4600		
4.15	3/8" dia. main bars both ways @ 9" crs; to top of first floor slab (approximate quantity)	Lbs	2500		
4.16	5/8" dia. main bars; to 10" x 12" perimeter beam (approximate quantity)	Lbs	6800		
4.17	3/8" dia. stirrups at 9" centres; to perimeter beam (approximate quantity)	Lbs	2500		
<b>CONCRETE WORKS CARRIED FORWARD</b>					
<b>CONCRETE WORKS BROUGHT FORWARD</b>					

4.18	3/8" dia. main bars; to window sill and lintels (approximate quantity)	Lbs	250
4.19	1/2" dia. main bars; to stairs (internal, eastern and southern (approximate quantity).	Lbs	1800
4.2	3/8" dia. main bars, to headers & risers of internal stairs (approximate quantity)	Lbs	750
4.21	1/4" dia. ties; to columns and beams of internal stairs (approximate quantity)	Lbs	350
<b><u>Steel fabric reinforcement; to BS 4483. Measured net with no allowance for end and side laps</u></b>			
4.22	Reference No 610 BRC fabric to ground floor (approximate quantity)	Syd	250
4.23	Reference No 65 BRC fabric to ground floor (approximate quantity)	Syd	1500
<b><u>Wrot formwork and basic finish; including all straps, braces and supports</u></b>			
4.24	To vertical sides of columns 12" x 12" columns.	Sq.yds	90
4.25	To vertical sides of columns 10" x 10" columns.	Sq.yds	50
4.26	To perimeter beams; not exceeding 144 sq. inches(10" x 12")	Sq.yds	458
4.27	Beams attached to slabs; 12" x 14"; first floor	Sq.yds	234
4.28	Sides and soffits of lintels	Sq.yds	10
4.29	Soffit of suspended floor slab.	Sq.yds	250
4.3	Edge of floor slab	lin. Yd	35



4.31	Sides and soffit of stairs	Sq.yds	90		
4.32	<u>Protection</u> Protection of works in this section	Sum	1		
<b>CONCRETE WORKS TO SUMMARY</b>					

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NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
5	<b>BILL 5 - MEASURED WORKS</b> <b><u>BLOCK WORKS</u></b>				
	<b><u>Hollow Concrete Block, bedded in cement &amp; sand mortar mix 1:3</u></b>				
5.1	4" x 8" x 16" H.C.B bedded in 1:3 cement and sand to external walls to top and ground floor walls; flush pointing joints	Sq.yds	220		
5.2	4" x 8" x 16" H.C.B bedded in 1:3 cement and sand to internal walls top and ground floor; flush pointing joints	Sq.yds	200		
5.3	Supply and lay in place 12"x 8" envelope vent blocks in stretcher bond 1:3 cement/sand mortar; flush pointing joints	Sq.yds	120		

5.4	<u>Protection</u> Protection of works in this section	Sum	1		
<b>BLOCK WORKS TO SUMMARY</b>					

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NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
<b>6</b>	<b>BILL 6 - MEASURED WORKS</b> <b><u>PLASTER WORKS</u></b> <b><u>STEEL TROWEL FINISH: 1:3 CEMENT/SAND MIX</u></b>				
6.1	1/2" thick plaster to columns not exceeding 36" girth.	Ln.yds	230		
6.2	1/2" thick plaster to columns not exceeding 48" girth.	Ln.yds	240		
6.3	1/2" thick plaster to beams not exceeding 30" girth.	Ln.yds	395		
6.4	1/2" thick plaster to window sill not exceeding 16" girth.	Ln.yds	20		
6.5	1/2" thick plaster to window frames not exceeding 8" girth.	Ln.yds	60		

6.6	1/2" thick plaster to external walls.	Sq.yds	440		
6.7	1/2" thick plaster to internal walls.	Sq.yds	400		
6.8	<u>Protection</u> Protection of works in this section	Sum	1		
<b>PLASTER WORKS TO SUMMARY</b>					

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NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
7	<b>BILL 7 - MEASURED WORKS</b> <b><u>CARPENTRY &amp; JOINERY</u></b>  <b><u>All timber members to be Greenheart, dressed, seasoned and free from defects or pest before installation. All defects resulting form shrinkage and other reason will have to be rectified by the contractor at his cost. All materials to be inspected before commencement of installation. All materials with defects must be removed from the site immediately. The face of all timber in contact with concrete or mortor shall be primed before</u></b>				
7.1	Supply and install 1" x 3" G.H. facing to doors.	ft	1400		
7.2	Supply and install 2" x 6" G.H door frames to internal opening	ft	60		

7.3	Supply and install 1" x 2" H.W. stop fillets around Doors	ft	960	
	<b><u>CEILING</u></b>			
7.4	Supply and install 2" X 4" G.H ceiling joist.	ft	9000	
7.5	Ditto 1" x 3" silverbally strips to ceiling joist and ground and first floor ceiling.	ft	15200	
7.6	Supply and install 6" PVC ceiling panels to ceiling , including mouldings to corner of each room ,edges to be mitred and secured to panels and noggins.	Sq.yds	650	
	<u>Protection</u>			
7.7	Protection of works in this section	Sum	1	
<b>CARPENTRY AND JOINERY TO SUMMARY</b>				

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NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
8	<b>BILL 8 - MEASURED WORKS</b> <b><u>WINDOWS AND DOORS</u></b>				
	<u>Doors - Door to be made of season timber materials. All defects resulting from shrinkage or other reasons will have to be corrected at contractor's cost. In case of damage to door such as cracking of door panel etc, door will have to be replaced. All locks to be Yale or equivalent. Any damage in locks will result in replacement of lock by contractor. All hinges to be screwed in all screw holes. Rate to include for heavy duty hinges.</u>				
	<b><u>EXTERNAL DOORS</u></b>				
8.1	Double leaf solid core six panel purple heart door; size 64" x 80".	Nr	1		
8.2	Metal door (Shop front) rolling door with motor 15' wide x 18' height	Nr	2		
8.3	Single leaf solid core six panel purple heart door; size 36" x 80".	Nr	2		
	<b><u>INTERNAL DOORS</u></b>				
8.4	Double leaf solid core six panel purple heart door; size 64" x 80".	Nr	1		
8.5	Single leaf solid core six panel purple heart door with 24" x 24" glass panel. 34" x 80".	Nr	8		
8.6	Six panel Pine doors 30" x 80".	Nr	6		

8.7	Lever mortise lock set with lever arms (Yale). 8807 FL; stainless steel; ASSA Abloy	Nr	10
8.8	Lever mortise lock set and dead bolts (Yale). 8800 series. ANSI/BHMA	Nr	3
8.9	Cylindrical lock set (Yale). 4600 series knob lockset	Nr	5
8.1	4" heavy duty brass butt hinges secured to door with screws.	Nr	58
8.11	Heavy duty Commercial Push Bar Panic Exit device Aluminum. Device must be able to fit doors 30" thru 36" wide.	Nr	2
	Heavy Duty Commercial Door Closer, surface mounted, Grade 1, Cast Aluminum.	Nr	9

**WINDOWS**

**All glass and framing must be approved by client before installation. Glass should be free from any defects such as cracks, scratches before installation. All edges must be properly sealed with rubber seals to avoid penetration of liquids through crevices.**

8.12	Aluminum frame sash window - 2'-6"wide x 4'-0" high	Nr	8
8.13	Aluminum frame sash window - 2'-6"wide x 3" high	Nr	2
8.14	Aluminum frame awning windows, 1 vent 12" x 18".	Nr	7
8.15	<u>Protection</u> Protection of works in this section	Sum	1

	<b>WINDOWS AND DOORS TO SUMMARY</b>				

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NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
9	<b>BILL 9 - MEASURED WORKS</b> <b><u>METAL WORK</u></b> <b><u>Metal work in mild steel R.H.S; etch and two coats zinc chromate a primer after fabrication.</u></b>				
9.1	2" dia galvanized pipe welded to steel pipe post support to form top, bottom and middle handrail to stairs and roof.	Ln.yds	660		
9.2	2" dia. Galvanized pipe post support welded to hand rail and base steel plate.	Ln.yds	165		
9.3	6" x 6" x 1/4" thick base plate holed four times for 1/2" diameter anchor bolts and welded to post uprights	Nr	184		
9.4	Anchor bolts 1/2" diameter x 4" long cast in concrete, with nut and washers	Nr	736		

9.5	1/2" dia holes in metal plate.	Nr	736		
9.6	16 gauge steel decking to concrete roof slab.	Sq.yds	1250		
9.7	Metal fire escape stairs to the top floor. Metal stairs to be constructed with 3" x 5" 'H' section as the frame, 2" x 5" channel section, 1/4" thick metal plate for traders and platform, and 2" dia. Galv. Pipe as hand rails. Include for painting stairs with three coat metal paint.	Sum	1		
9.8	HI 280 Multi-Tier Dexion Angle Shelving made of pre-galvanised steel. High 20' x Length 30' x width 2'-6". Unit to contain ten (10) shelves.	Nr	14		
9.9	HI 280 Multi-Tier Dexion Angle Shelving made of pre-galvanised steel. High 10' x Length 30' x width 2'-6". Unit to contain five (5) shelves.	Nr	12		
9.1	HI 280 Multi-Tier Dexion Angle Shelving made of pre-galvanised steel. High 10' x Length 20' x width 2'-6". Unit to contain five (5) shelves.	Nr	14		
9.11	<u>Protection</u> Protection of works in this section	Sum	1		
<b>METAL WORK TO SUMMARY</b>					

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NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
10	<p><b>BILL 10- MEASURED WORKS</b>  <b><u>ROOFING</u></b>  <u>Roof Covering - roof sheeting to be 26 gauge (0.511mm thick) preprinted trapezoidal profile galvalum roofing sheets, side lap to be 1No. flutes (approx. 4'') and must include for double sided tape to each end lap , sheets to be screwed to sheets laths with matching cadmium plated steel washers/high quality neoprene fittings.</u></p>				
10.1	26 swg galvalume trapezoidal profile pre-painted sheeting on 1" x 6" sheet laths.	Sq.yds	34		
10.2	26 swg Galvalume pre-painted plain sheeting to ridge not exceeding 2'-6" girth and include for laps.	Ln.yds	14		
	<p><u>Roof Insulation</u>  Econo E reflective foil insulation or equal and approved fixed to underside of corrugated roof sheeting including 1' side and end laps</p>	Sq.yds	34		
10.3	<p><u>Protection</u>  Protection of works in this section</p>	Sum	1		
	<b>ROOFING TO SUMMARY</b>				



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NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
11	<b>BILL 11- MEASURED WORKS FINISHES</b>				
	<u>Apply one prime coat and two finishing coat oil paint to all exposed timber surfaces including for sanding, filling and cleaning.</u>				
11.1	Prime, knot stop and apply two additional coats of oil paint to all timber surfaces including doors.	Sq.yds	1900		
11.2	Prime, knot stop and apply two additional coats of oil paint to all timber surface not exceeding 16" girth	Ly.nds	660		
	<u>Masonry surfaces - Emulsion paint (semi-gloss) one primer and two finishing coats, all internal surfaces to be properly prepared</u>				
11.3	Apply one coat primer and two coats of emulsion paint to all concrete surface (approximate quantity)	Sq.yds	4500		
11.4	Sand, knot, stop and apply two coats of lacquer to panel doors.	Sq.yds	105		
11.5	Touch up metal primer, one finishing coat of anti-corrosive paint to metal work steel pipes	Ly.nds	230		
11.6	Apply one coat primer and two coats of rubberise paint to concrete roof surface	Sq.yds	4210		
	<u>Screeding</u>				

11.7	Cement/sand screed; mix 1:3; trowelled finish to ground floor 1/2" to 1 1/2" thick; level to falls and crossfalls not exceeding 15 degrees from horizontal; to concrete	Sq.yds	1250		
11.8	Cement/sand screed; mix 1:3; trowelled finish to roof slab floor 1/2" to 1 1/2" thick; level to falls and crossfalls not exceeding 15 degrees from horizontal; to concrete. Xypex or other water proofing agent equal and approved, prepared to manufacturers specifications and applied to roof slab	Sq.yds	1216		
	<b><u>Tiling Works</u></b>				
11.9	18" x 18" non skid granite tiles to concrete floor and finish with white cement.	Sq.yds	550		
11.1	18" x 18" ceramic floor tiles to prepared surface, laid with 1/4" spacers including for tin set and grouting.	Sq.yds	50		
11.12	18" x 18" ceramic wall tiles to prepared surface laid with 1/4" spacers including for tin set and grouting. Tiles to be place to a height of 60" from floor level.	Sq.yds	100		
11.13	First Class Terrazzo finish (white and grey) to open store area only with crushed assorted colours granite 1/8" - 3/8", mix: 1 cement to 2 1/2 chippings, tamped, graded to falls and cross falls, endings, angles, intersections. polished to 200 grids finish.	Syd	825		
11.14	<u>Protection</u> Protection of works in this section	Sum	1		
<b>FINISHES TO SUMMARY</b>					

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NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<b>BILL 12 - MEASURED WORKS</b>				
<b>12</b>	<b><u>PLUMBING INSTALLATION</u></b>				
	<b><u>SANITARY INSTALLATION</u></b>				
12.1	Single bowl, double drain board, galvanized kitchen sink; complete with waste outlet,tap and all necessary plumbing fixtures need to have it functional	Nr	1		
12.2	WC suites; Armitage Shanks MAGNIA ref. 117924E; white glazed bowl 7.5 liters cistern with ball valve and fittings; Orion seat cover ref. 68890B1 or equally approved. Screwing cistern to backgrounds requiring plugging; bedding and pointing bowl in white cement and screwing to tiled concrete floor.	Nr	4		
12.3	Flushing cistern and urinal; Armitage Shanks 13.6 liters capacity with chromium plated flush pipes and or equally approved. Assembling and fixing pipes to cistern and urinal; fixing to background requiring plugging; screwing cistern and urinal to background requiring plugging.	Nr	1		
12.4	Vanity hand basin in Armitage Shanks Venice ref. 485014E with tap and brackets ref. 719200 & 729500 SC chromium plated waste rubber dug and chain or equally approved. Bedding basin in				

	silicone sealant; bedding waste in plumbers mait; fixing clips to counter top framing.	Nr	2
12.5	Allow for testing the installations for water tightness.	Sum	1
12.6	Allow for connecting to existing water mains.	Sum	1
	<b><u>HOT/COLD WATER SUPPLY</u></b>		
12.7	Water tanks; Rotoplastic brand; 1000 gallons storage tanks	Nr	4
	<b><u>RAINWATER INSTALLATION</u></b>		
	<b><u>Rainwater Installation - Guttering to be leveled to allow for efficient flow of water to outlets, brackets to be spaced at 16" crs, downpipe to be 4" square PVC, downpipe to lead to surface drains, downpipes to back of building to be lead to storage tanks</u></b>		
12.8	PVC Gutters, 6" wide with solvent cement joints in the running length instandard facia brackets at 16" centres	Ln.yds	20
12.9	Provide and fix stop ends.	Nr	6
12.1	Provide for outlets with nozzle for 4" diameter down pipes.	Nr	2
12.11	Provide and fix internal / external corners.	Nr	2
12.12	Rainwater down pipe 6" dia. and screwed to concrete with brackets.	Ln.yds	145
12.13	6" dia. Pvc bends .	Nr	24
12.14	The contractor is to allow here for builder's works, including cutting holes, sleeves, forming openings, chasing walls and the like, making good all surfaces disturbed including finishes to match existing surface formed during construction	Sum	1

12.15	Add for general attendance	Sum	1		
12.16	Add for special attendance	Sum	1		
	<u>Protection</u>				
12.17	Protection of works in this section	Sum	1		
<b>PLUMBING INSTALLATION TO SUMMARY</b>					

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NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
<b>13</b>	<b>BILL 13 - MEASURED WORKS FITTINGS &amp; FURNISHINGS</b>				
13.1	Provide and install 2' x 2' mirror to wall.	Nr	2		
13.2	Provide and fix toilet roll holder chromium plated.	Nr	4		
	<u>Protection</u>				
13.3	Protection of works in this section	Sum	1		

	<b>FITTINGS &amp; FURNISHINGS TO SUMMARY - PG 17</b>				

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NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
14	<b>BILL 14 - MEASURED WORKS ELECTRICAL INSTALLATION</b>				
	<b><u>All outlets and switches are recessed and any cabling in wall must be in conduit.</u></b>				
14.1	4' LED lamp complete (double )	No.	9		

14.2	4' LED lamp complete	No.	70
14.3	110V American socket outlet.	No.	25
14.4	110V, duplex circuit breakers.(15/15 Amps duplex breakers)	No.	3
14.5	2x4 way panel complete with 60 DP Amps breaker .	No.	1
14.6	2 x1.5 mm <sup>2</sup> PVC flat cable with ECC .	Rolls	12
14.7	2 x2.5 mm <sup>2</sup> PVC flat cable with ECC	Rolls	8
14.8	70 mm <sup>2</sup> (200A) 4 core.	Ln.yds	10
14.9	35 mm <sup>2</sup> 3 core with earth.	Ln.yds	10
14.1	35 mm <sup>2</sup> single core (Neutral).	Ln.yds	10
14.11	16 mm x 25 mm trunking.	Length	45
14.12	Earth rod c/w clamp.	No.	2
14.13	Allow for fixing pins, plug, clips, connectors etc.	Sum	1
14.14	Allow for plugs, screws, tape, etc.	Sum	1
14.15	75mm x75 mm trunking	Length	21
14.16	50 mm x50 mm trunking	Length	60



<b>ELECTRICAL INSTALLATION CARRIED FORWARD</b>				
<b>ELECTRICAL INSTALLATION BROUGHT FORWARD</b>				
14.17	75mm x50 mm trunking	Length	20	
14.18	16 mm x16 mm trunking	Length	150	
14.19	25 mmx40 mm trunking	Length	70	
14.2	50 Watt LED solar spotlight	No.	16	
14.21	20 to 40 way breaker panel for AC (Completed with breakers )	No.	2	
14.22	16 to 32 way breaker panel for lights(Completed with breakers )	No.	2	
14.23	16 to 32 way breaker panel for duplex (Completed with breakers )	No.	2	
14.24	Load center 600 Amp 6 way (11000x850x280)	No.	1	
14.25	225 Amp TP industrial Breaker	No.	1	
14.26	160 Amp TP industrial Breaker	No.	1	
14.27	100 Amp TP industrial Breaker	No.	1	
14.28	20Amp DP breaker	No.	10	
14.29	20/20 Amp Duplex Breaker	No.	14	

14.3	30Amp DP breaker	No.	2		
14.32	15/15 Amp Duplex Breaker	No.	6		
14.32	20 Amp DP Switch with neon light	No.	10		
14.33	3x3 Trunking punch out PVC base	No.	10		
14.34	30 amps dp circuit breaker with enclosure panel	No.	1		
14.35	1 gang 2 way switch	No.	8		
14.36	1/2" split flex tube	No.	6		
14.37	3.0 dual lugs	No.	20		
14.38	1/0 dual rated lugs	No.	25		
14.39	2/0 rated lugs	No.	10		
14.4	250 mm rated lugs	No.	20		
14.41	U clamps	No.	4		
14.42	100 Amps DP circuit breaker with enclosed panels	No.	2		
<b>ELECTRICAL INSTALLATION CARRIED FORWARD</b>					
<b>ELECTRICAL INSTALLATION BROUGHT FORWARD</b>					
14.43	4x240 Armoured Gland	No.	2		

14.44	1x50 mm single core wire	Ln.yds .	10
14.45	1x120 mm single core wire	Ln.yds .	5
14.46	1x240 mm single core wire	Ln.yds .	3
14.47	#6 dual rated lugs	No.	15
14.48	#4 dual rated lugs	No.	10
14.49	Supply and install 1/2" dia pipe to drain Air conditioners	Lengths	15
14.5	Supply and install 1/2 dia 90 degree bends to Air conditioners	No.	15
14.51	3x1.5 mm Flat cables with ECC	Rolls	1
14.52	#6 dual rated lugs	No.	12
14.53	Labeling of installation	Sum	1
14.54	Testing of installation	Sum	1
14.55	Certification of installation	Sum	1
14.56	Add for general attendance	Sum	1

14.57	Add for special attendance  Fan, ceiling, 24 Ft diameter, 200 250 volts, 50/60 Hz, 62 RPM, 2 HP	Sum	1		
14.58	Controller wall mounted, digital pad Motor and gerbox, IP43 motor  Powerfoil X3.0 Big Ass Fan model PPX3 24 , SKU # F PFX3 2402S65	No.	2		
14.59	The contractor is to allow here for builder's works, including cutting holes, sleeves, forming openings, chasing walls and the like, making good all surfaces disturbed including finishes to match existing surface formed during construction  <u>Protection</u>	Sum	1		
14.6	Protection of works in this section	Sum	1		
<b>ELECTRICAL INSTALLATION TO SUMMARY</b>					

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NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
15	<b>BILL 15 - MEASURED WORKS</b> <b><u>AIR CONDITIONING INSTALLATIONS</u></b>				
15.1	12,000 BTU Split inverter AC unit 240 Volts 60 HZ High wall R410 Refridgerant; complete with all fittings and support brackets bolted to wall.	No.	4		
15.2	18,000 BTU Split inverter AC unit 240 Volts 60 HZ High wall R411 Refridgerant; complete with all fittings and support brackets bolted to wall	No.	4		
15.3	24,000 BTU Split inverter AC unit 240 Volts 60 HZ High wall R412 Refridgerant; complete with all fittings and support brackets bolted to wall	No.	2		
15.4	Labeling of installation	Sum	1		
15.5	Testing and commisioning of installation	Sum	1		
15.6	Add for general attendance	Sum	1		

15.7	Add for special attendance	Sum	1		
15.8	The contractor is to allow here for builder's works, including cutting holes, sleeves, forming openings, chasing walls and the like, making good all surfaces disturbed including finishes to match existing surface formed during construction	Sum	1		
	<u>Protection</u>				
15.9	Protection of works in this section	Sum	1		
<b>AIR CONDITIONING INSTALLATION TO SUMMARY</b>					

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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
16	<b>BILL 16 - MEASURED WORKS</b> <b><u>SEPTIC TANK</u></b> <b><u>Excavation/Earthworks</u></b>				

16.1	Excavate for septic tank to a depth not exceeding 5'-0"; commencing at stripped ground level; dispose of excavated materials onsite	CydS	25
16.2	Level and consolidate bottom of excavated trench to receive concrete	Sq. yd	10
16.3	Keep excavation free of water during construction	Sum	1
16.4	Planking and strutting to sides of excavation for septic tank; over 3ft but not exceeding 10ft total depth	Sq. yd	50
16.5	6 inch thick compacted white sand bed compacted to 95% Modified Proctor Density test; to excavation	Cyds	5
16.6	2 inch thick cement/sand blinding; mix 1:6; to top of sandfill.	Sq. yd	8

**Concrete Works**

**Structural concrete 3500 psi at 28 days, using 3/4 minus and well-graded coarse aggregate.**

16.7	Base slab	Cyds.	1
16.8	4" thick walls	Cyds.	5
16.9	Top and Covers	Cyds.	1
<b><u>Formwork</u></b>			
<b><u>Formwork and basic finish, complete with all straps, supports and braces</u></b>			
16.1	To edge of base slab; not exceeding 12" wide	Sq. yd	5
16.11	To walls; over 12" wide	Sq. yd	55
16.12	To top and cover; over 12" wide	Sq. yd	15
<b><u>Reinforcement</u></b>			
<b><u>Reinforcement to be high tensile steel bars, steel laps to be 40 x steel bar diameter minimum, including bends, hooks, tying wire, distance blocks and ordinary spacers</u></b>			
16.13	1/2" dia ms main bars; to base of tank (approximate Quantity)	Lbs	320



16.14	1/2" dia ms bars; to walls at 6" crns (approximate quantity)	Lbs	651		
16.15	1/2" dia ms bars for handle to septic tank covers as shown in drawings (approximate quantity)	Lbs	15		
16.16	Extra over for aggregate and charcoal to act as filter bed for waste water <u>Protection</u>	Sum	1		
16.17	Protection of works in this section	Sum	1		
<b>SEPTIC TANK TO SUMMARY</b>					

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NO.	DESCRIPTION	UNIT	QTY	RATE	TOTAL
17	<b>BILL 17 - MEASURED WORKS</b> <b><u>LIFT INSTALLATION</u></b>				
17.1	1000 Kg Fixed Warehouse Cargo Lift Hoist with Ce-Hydraulic Freight Vertical Lift with Guide Rail, Chain Lift; complete, including testing and commissioning.	Nr	1		

17.2	Add for general attendance	Sum	1		
17.3	Add for special attendance	Sum	1		
17.4	Add for builders work in connection with installation. Make good upon completion of works.	Sum	1		
	<u>Protection</u>				
17.5	Protection of works in this section	Sum	1		
<b>LIFT INSTALLATION WORK TO SUMMARY</b>					<b>\$0.00</b>

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ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
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**BILL 18 - MEASURED WORKS**

18

**WALKWAY**

**Excavation/Earthworks**

18.1	Excavate for walkway not exceeding 18" deep; dispose unwanted materials offsite at Haags Bosch Landfill, Eccles, EBD.	Cyds	284
18.2	Level and consolidate bottom of excavated trench to receive concrete.	Sq. yd	587
18.3	Keep excavation free of water during construction	Sum	1
18.4	6 inch thick compacted white sand bed compacted to 95% Modified Proctor Density test; to excavation	Cyds	95
18.5	2 inch thick cement/sand blinding; mix 1:6; to top of sandfill.	Sq. yd	587

**Concrete Works**

**Structural concrete 3500 psi at 28 days, using 3/4 minus and well-graded coarse aggregate.**

18.6	6" thick walkway slab.	Cyds	95
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	<b><u>Formwork</u></b>				
	<b><u>Formwork and basic finish, complete with all straps, supports and braces</u></b>				
18.7	To edge of walkway strip not exceeding 12" wide	Sq. yd	30		
	<b><u>Reinforcement</u></b>				
	<b><u>Reinforcement to be high tensile steel bars, steel laps to be 40 x steel bar diameter minimum, including bends, hooks, tying wire, distance blocks and ordinary spacers</u></b>				
18.8	1/2" dia ms bars at 8" crs both ways to ground slab to the northern side of the building.	Lbs	5740		
18.9	Layer of BRC mesh fabric reinforcement to BS 4483; Ref. No 65; to pavement slab. Lapped not less than 6" at joints (measured net), with no allowance for laps	Sq. yd	253		
18.1	Damp proof course 500 guage polythene (measured net), with no allowance for laps	Sq. yd	587		
18.11	Extra over for forming construction joints in concrete slab (aproximate quantity)	lin. yd	75		
	<b><u>Protection</u></b>				
18.12	Protection of works in this section	Sum	1		
<b>WALKWAY TO BILL SUMMARY</b>					

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 FACILITIES MANAGEMENT  
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ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<b>BILL 18 - MEASURED WORKS</b>				
<b>19</b>	<b><u>PROVISIONAL SUMS</u></b>				
	<u>Allow the following Provisional Sums for works that cannot be foreseen or determine prior to commencement of works</u>				
19.1	Include a provisional sum of \$3,500,000.00 for additional demolition & alteration works	Prov. Sum	1	3,500,000.00	3,500,000.00
19.2	Include a provisional sum of \$1,500,000.00 for additional site clearance works	Prov. Sum	1	1,500,000.00	1,500,000.00
19.3	include a provisional sum of \$2,500,000.00 for additional carpentry & joinery works	Prov. Sum	1	2,500,000.00	2,500,000.00
19.4	Include a provisional sum of \$1,000,000.00 for additional windows, doors & hardware	Prov. Sum	1	1,000,000.00	1,000,000.00
19.5	Include a provisional sum of \$2,500,000.00 for additional metal works	Prov. Sum	1	2,500,000.00	2,500,000.00

19.6	Include a provisional sum of \$2,500,000.00 for additional roofing works	Prov. Sum	1	2,500,000.00	2,500,000.00
19.7	Include a provisional sum of \$2,000,000.00 for additional plumbing work	Prov.sum	1	2,000,000.00	2,000,000.00
19.8	Include a provisional sum of \$1,500,000.00 for additional fittings & furnishings	Prov sum	1	1,500,000.00	1,500,000.00
19.9	Include a provisional sum of \$1,000,000.00 for additional electrical work	Prov.sum	1	1,000,000.00	1,000,000.00
19.1	Include the provisional sum of \$800,000.00 for testing of materials	Prov.sum	1	800,000.00	800,000.00
<b>PROVISIONAL SUMS TO SUMMARY</b>					<b>\$18,800,000</b>

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ITEM	DESCRIPTION
	<b>BILL 15 - MEASURED WORKS</b>
<b>20</b>	<b><u>APPENDIX</u></b> <b><u>LIST OF DRAWINGS</u></b>
20.1	Site Plan - #1
20.2	Ground Floor Plan - #2

20.3 First Floor Plan - #3

20.4 Main Roof Slab - #4

20.5 First Floor Beam - #5

20.6 Perimeter Beam Layout - #6

20.7 Northern Elevation - #7

20.8 Western Elevation - #8