

DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
 BASE BUILD CONTRACT
 PROVISIONAL BILLS OF QUANTITIES
 ADDENDUM 1

Item No		Quantity	Rate	Amount
	<p><u>SECTION 3</u></p> <p><u>BILL NO 1</u></p> <p><u>PROVISIONAL AMOUNTS FOR SELECTED SUBCONTRACT WORK</u></p> <p>For preambles refer to "Model Preambles for Trades"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Provisional amounts</u></p> <p>All provisional amounts are net and include for delivery to site of all articles concerned</p> <p><u>Profit</u></p> <p>Where stated, the contractor may allow for profit if required</p> <p><u>General attendance on selected subcontractors</u></p> <p>The item "Attendance" which follows each provisional sum for selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the selected subcontractors, the following:</p> <ol style="list-style-type: none"> 1. The services as set out in clause B9 of the Preliminaries 2. Hoisting of the selected subcontractor's material in batches that can be handled by the contractor's hoist or crane during normal working hours 3. Making good in all trades and cleaning down and removal of rubbish on completion <p><u>Design Development</u></p>			
3/1/1	Provide a sum for Design Development by the Employer in connection with services to be used as directed by the Principal Agent or omitted in part or whole if not required	Item		1,500,000.00
	Carried Forward		R	
	Section No. 3 PROVISIONAL SUMS Bill No. 1 PROVISIONAL SUMS			

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Brought Forward		R
<u>Roads and Paving Including Dignitaries Drop Off Zone</u>		
3/1/2	Provide a sum for Roads and Paving to be used as directed by the Principal Agent or omitted in part or whole if not required	Item 500,000.00
3/1/3	Add for Profit	Item
3/1/4	Allow for Attendance	Item
<u>Landscaping</u>		
3/1/5	Provide a sum for Landscaping to be used as directed by the Principal Agent or omitted in part or whole if not required	Item 290,000.00
3/1/6	Add for Profit	Item
3/1/7	Allow for Attendance	Item
<u>Municipal Water, Sewer & Stormwater Connection</u>		
3/1/8	Provide a sum for Municipal Water and Sewer Connection to be used as directed by the Principal Agent or omitted in part or whole if not required	Item 150,000.00
3/1/9	Add for Profit	Item
3/1/10	Allow for Attendance	Item
<u>Community Liaison Officer</u>		
3/1/11	Provide a sum for the Community Liaison Officer's remuneration to be used as directed by the Principal Agent or omitted in part or whole if not required	Item 144,000.00
3/1/12	Add for Profit	Item
3/1/13	Allow for Attendance	Item
Carried Forward		R
Section No. 3 PROVISIONAL SUMS Bill No. 1 PROVISIONAL SUMS		

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	Brought Forward		R	
	<u>Signage</u>			
3/1/14	Allow a sum for repairing and fixing existing concrete to Signage to be measured and priced in accordance with this Bill of Quantities and omitted in part or whole as instructed by Principal Agent	Item		150,000.00
3/1/15	Add for profit	Item		
3/1/16	Allow for attendance	Item		
	Carried to Final Summary		R	
	Section No. 3 PROVISIONAL SUMS Bill No. 1 PROVISIONAL SUMS			

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Item No		Quantity	Rate	Amount
	<u>SECTION 4</u>			
	<u>BILL NO 1</u>			
	<u>ALTERATIONS</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and applicable supplementary preambles as specified in the Trades. The said Model and Supplementary Preambles apply to all work described in this document. Tenderers are therefor referred to these documents for the full meaning and intention of all descriptions as no claims of any kind whatsoever will be entertained in this regard.			
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	<u>DEMOLITIONS</u>			
	<u>Breaking up and removing slab and attached structures</u>			
4/1/1	Entire Existing First Floor slab 340mm thick reinforced concrete and attached beams below including lift shaft walls	m2	520	
4/1/2	Lower Ground Floor slab 340mm thick reinforced concrete and attached beams below to create ramp to level below	m2	323	
4/1/3	Create opening in concrete wall for Fire Escape door	No	2	
	<u>ALTERATONS</u>			
	Carried Forward			R
	Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 1 ALTERATIONS			

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	Brought Forward			R
	<p><u>820mm long Y12 rebar at 200mm centres along perimeter, top and bottom into existing concrete with Hilti HIT-HY 200 or similar approved, 220mm embedment into existing concrete</u></p>			
4/1/4	Rebar as described in closing off opening 2831mm x 4824mm	No	4	
	<p><u>BUDGETARY ALLOWANCE</u></p>			
4/1/5	Allow for decommissioning existing lifts and protecting or the duration of the construction, to be omitted in part or whole as instructed by Principal Agent		Item	-350,000.00
	<p>Carried Forward to Summary of Section No. 4</p>			R
	Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 1 ALTERATIONS			

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Item No		Quantity	Rate	Amount
	<p><u>SECTION 4</u></p> <p><u>BILL NO 2</u></p> <p><u>EARTHWORKS (PROVISIONAL)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground</u></p> <p>Use "assumed to be" if no trial holes, soils investigations, etc have been carried out - discuss with engineer. Use "Trial holes indicate that" where the ground has been investigated by means of trial holes</p> <p><u>DEMOLITIONS ETC</u></p> <p><u>Breaking up and removing</u></p>			
4/2/1	Existing brick paving with mortar joints	m2	1,521	
	Carried Forward to Summary of Section No. 4			R
	Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 2 EARTHWORKS			

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Item No		Quantity	Rate	Amount
	<u>SECTION 4</u>			
	<u>BILL NO 3</u>			
	<u>CONCRETE, FORMWORK & REINFORCEMENT</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and applicable supplementary preambles as specified in the Trades. The said Model and Supplementary Preambles apply to all work described in this document. Tenderers are therefor referred to these documents for the full meaning and intention of all descriptions as no claims of any kind whatsoever will be entertained in this regard.			
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	ADDITIONS			
	<u>REINFORCED CONCRETE</u>			
	<u>30MPa/19mm concrete</u>			
4/3/1	Slabs including beams and inverted beams	m3	207	
4/3/2	Stairs including landings, beams and inverted beams	m3	35	
	<u>TEST BLOCKS</u>			
4/3/3	Making and testing 150 x 150 x 150mm concrete strength test cube	No	25	
	<u>CONCRETE SUNDRIES</u>			
	Carried Forward			R
	Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 3 CONCRETE, FORMWORK & REINFORCEMENT			

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Brought Forward			R
<u>Prepare existing surface bed and slabs to receive new concrete using a WET-TO-DRY Concrete Adhesive bonding agent, Product: Pro-Struct 616 or similar approved</u>			
4/3/4	Horizontal surfaces	m2	30
4/3/5	Vertical surfaces	m2	74
<u>Finishing top surfaces of concrete smooth with a power float</u>			
4/3/6	Slabs and surface beds	m2	591
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>			
<u>Smooth formwork to sides</u>			
4/3/7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	50
<u>Smooth formwork to soffits</u>			
4/3/8	Slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 3.5m and not exceeding 5m high and including all backpropping up to Basement level	m2	591
<u>Smooth formwork to sides and soffits</u>			
4/3/9	Beams propped up exceeding 3m and not exceeding 4.5m high	m2	
<u>REINFORCEMENT</u>			
<u>High tensile steel reinforcement</u>			
4/3/10	Varying diameters	t	36.30
Carried Forward to Summary of Section No. 4			R
Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 3 CONCRETE, FORMWORK & REINFORCEMENT			

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Item No		Quantity	Rate	Amount
	<p><u>SECTION 4</u></p> <p><u>BILL NO 4</u></p> <p><u>MASONRY</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and applicable supplementary preambles as specified in the Trades. The said Model and Supplementary Preambles apply to all work described in this document. Tenderers are therefor referred to these documents for the full meaning and intention of all descriptions as no claims of any kind whatsoever will be entertained in this regard.</p> <p>Tenderers are however also referred to the drawings and additional specifications. If same are in conflict with the above, the drawings and specifications shall take preference.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>BRICKWORK</u></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><u>Hollow walls etc</u></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p><u>Bagged and sealed walls</u></p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixéal" bitumen emulsion waterproofing coating.</p> <p><u>SUPERSTRUCTURE</u></p>			
	Carried Forward		R	
	<p>Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 4 MASONRY</p>			

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Brought Forward			R
<u>Brickwork of NFP bricks in class II mortar</u>			
4/4/1	Half brick walls	m2	2,794
4/4/2	One brick walls	m2	1,029
<u>BRICKWORK SUNDRIES</u>			
<u>Joint forming material in movement joints</u>			
4/4/3	15mm "Jointex" expansion joints with polycord built in vertically through brick walls	m2	20
<u>2,5mm Brickwork reinforcement</u>			
4/4/4	75mm Wide reinforcement built in horizontally	m	1,365
4/4/5	150mm Wide reinforcement built in horizontally	m	3,402
<u>FACE BRICKWORK</u>			
<u>Bricks shall be ordered timeously to obtain uniformity in size and colour</u>			
<u>Pointing</u>			
<u>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</u>			
4/4/6	Extra over for facebrick (PC Sum R4,500.00/thousand)	m2	-2,000
<u>"Classic Satin White" - Corobrick FBX face bricks in class II mortar pointed with flush horizontal and vertical joints:</u>			
4/4/7	Extra over for facebrick	m2	1,500
4/4/8	Extra over for facebrick with "turned brick" as per architect's detail, brick to be solid with no holes in it	m2	550
<u>PAVING</u>			
Carried Forward			R
Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 4 MASONRY			

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	Brought Forward			R
	<u>Paving bricks with butt joints on 50mm thick river sand bed with sand and cement mixture swept into joints and hosed down including preparation of ground or filling</u>			
4/4/9	Reinstatement of paving bricks	m2	-226	
	<u>"Onyx Piazza Paver" by Corobrik with flush joints on 50mm thick river sand bed with sand and cement mixture swept into joints and hosed down including preparation of ground or filling</u>			
4/4/10	New paving bricks	m2	1,973	
	Carried Forward to Summary of Section No. 4			R
	Section No. 4			
	ADDENDUM 1: MAIN BUILDING			
	Bill No. 4			
	MASONRY			

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	<p><u>SECTION 4</u></p> <p><u>BILL NO 5</u></p> <p><u>WATERPROOFING</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and applicable supplementary preambles as specified in the Trades. The said Model and Supplementary Preambles apply to all work described in this document. Tenderers are therefor referred to these documents for the full meaning and intention of all descriptions as no claims of any kind whatsoever will be entertained in this regard.</p> <p>Tenderers are however also referred to the drawings and additional specifications. If same are in conflict with the above, the drawings and specifications shall take preference.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Waterproofing</u></p> <p>Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs</p>			
4/5/1	<p><u>Budgetary Allowance for subsoil drainage system</u></p>	Item		
	<p>Carried Forward to Summary of Section No. 4</p>		R	
	<p>Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 5 WATERPROOFING</p>			

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	<p><u>SECTION 4</u></p> <p><u>BILL NO 6</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and applicable supplementary preambles as specified in the Trades. The said Model and Supplementary Preambles apply to all work described in this document. Tenderers are therefor referred to these documents for the full meaning and intention of all descriptions as no claims of any kind whatsoever will be entertained in this regard.</p> <p>Tenderers are however also referred to the drawings and additional specifications. If same are in conflict with the above, the drawings and specifications shall take preference.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p>Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc</p> <p><u>Joinery</u></p> <p><u>Fixing</u></p> <p><u>SKIRTINGS</u></p> <p><u>"Supawood"</u></p>			
4/6/1	25 x 100mm Skirtings with 10 x 10mm chamfer, nailed	m		
	<p><u>TIMBER DOOR FRAMES</u></p> <p style="text-align: right;">Carried Forward</p>		R	
	<p>Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 6 CARPENTRY & JOINERY</p>			

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Brought Forward			R
<u>Timber door frame. painted</u>			
4/6/2	For door Type D01, D01b, D01c, D01d: door size 813 x 2134mm high	No	22
4/6/3	For door Type D02: door size 914 x 2125mm high	No	10
4/6/4	For door Type D05b: door size 1524 x 2134mm high	No	3
4/6/5	For door Type D05 and D05a: door size 1626 x 2134mm high	No	23
<u>DOORS, WINDOWS, SASHES, ETC</u>			
<u>Hollow core flush doors with commercial veneer, hung to steel frames</u>			
4/6/6	40mm Door 813 x 2032mm high	No	-26
4/6/7	Type D06: size 813 x 2,134mm high	No	19
4/6/8	Type D06a: size 813 x 2,134mm high	No	18
4/6/9	Type D05c: size 1524 x 2,134mm high	No	23
4/6/10	Type D07a: size 1626 x 2,134mm high	No	36
4/6/11	Type D08: size 750 x 2,134mm high	No	5
<u>Hollow core flush doors with commercial veneer, hung to timber frames</u>			
4/6/12	Type D01: size 813 x 2,134mm high	No	2
4/6/13	Type D01b: size 813 x 2,134mm high	No	2
4/6/14	Type D01c: size 813 x 2,134mm high	No	8
4/6/15	Type D02: size 914 x 2125mm high	No	10
4/6/16	Type D03: size 813 x 2,134mm high	No	73
4/6/17	Type D05b: size 1524 x 2134mm high	No	3
4/6/18	Type D05: size 1626 x 2134mm high	No	12
Carried Forward			R
Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 6 CARPENTRY & JOINERY			

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	Brought Forward			R
4/6/19	Type D05a: size 1626 x 2134mm high	No	11	
	<u>Solid chipcore flush doors with commercial veneer, hung to steel frames</u>			
4/6/20	Type D01d: size 813 x 2,134mm high	No	10	
4/6/21	Type D03: size 914 x 2,134mm high	No	13	
Carried Forward to Summary of Section No. 4				R
Section No. 4				
ADDENDUM 1: MAIN BUILDING				
Bill No. 6				
CARPENTRY & JOINERY				

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Item No		Quantity	Rate	Amount
	<p><u>SECTION 4</u></p> <p><u>BILL NO. 7</u></p> <p><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and applicable supplementary preambles as specified in the Trades. The said Model and Supplementary Preambles apply to all work described in this document. Tenderers are therefor referred to these documents for the full meaning and intention of all descriptions as no claims of any kind whatsoever will be entertained in this regard.</p> <p>Tenderers are however also referred to the drawings and additional specifications. If same are in conflict with the above, the drawings and specifications shall take preference.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions:</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere</p> <p><u>SUSPENDED CEILINGS, ETC</u></p> <p><u>Gypsum plasterboard</u></p>			
4/7/1	<p>Ceiling formed of 6,4mm thick x 1200mm wide boards with and including H-profile 'Bischoff' pressed steel jointing strips and 38 x 38mm sawn softwood brandering at 450mm centres generally in one direction</p>	m2	192	
	Carried Forward			R
	<p>Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 7 CEILINGS, PARTITIONS & ACCESS FLOORING</p>			

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Brought Forward			R
4/7/2	Extra over ceiling for 650 x 650mm trap door complete with trimmers, frame, cross branders, ceiling board, hinges and including all necessary ironmongery	No	2
4/7/3	960mm girth bulkhead with 480mm vertical sections and 480mm vertical section fixed to 50 x 38mm brandering at 300mm centres.	m	46
<u>Gypsum plasterboard cornices</u>			
4/7/4	75mm Coved cornices	m	76
<u>Proprietary suspended ceilings</u>			
<u>Note:</u>			
Electrical light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance must be made accordingly for their support inclusive of any flexibility inseting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)			
<u>600 x 600mm Luxalon 50 Ceiling System Laid and including "Donn T38" Grid System including Main Tees, cross Tees, Hold -Down Clips, Wedges, Reinforcement Splinces, Etc. All Suspended with hangers not Exceeding 1200mm All as per Manufacturer's Instructions.</u>			
4/7/5	Ceilings suspended not exceeding 1m below concrete soffits	m2	3,475
4/7/6	Opening for sprinkler head	No	800
4/7/7	Extra over ceiling for opening for 100mm diameter downlighter	No	80
<u>OWA Acoustic Premium Sinfonia 600 x 600mm tiles on pre-painted exposed tee suspension system including main and cross tees, necessary hangers, grids, etc</u>			
4/7/8	Ceilings suspended not exceeding 1m below concrete soffits	m2	7,731
Carried Forward			R
Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 7 CEILINGS, PARTITIONS & ACCESS FLOORING			

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	Brought Forward				
	<u>Aluminium shadow line cornice</u>				R
4/7/9	20mm SM25 section cornices	m	304		
	<u>Bulkheads</u>				
4/7/10	Rectangular bulkhead against wall, including standard steel brandering, joined with joiner sections and hung with suspension brackets as per architect's detail	m	60		
	Carried Forward to Summary of Section No. 4				R
	Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 7 CEILINGS, PARTITIONS & ACCESS FLOORING				

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Item No		Quantity	Rate	Amount
	<u>SECTION 4</u>			
	<u>BILL NO 8</u>			
	<u>FLOOR COVERINGS</u>			
	<u>PREAMBLES</u>			
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	<u>FLOOR COVERINGS</u>			
	<u>300 x 300mm Mazista vinyl interlocking planks.</u> <u>Code: MTNT-13-GOW-Wide Plank</u>			
4/8/1	On floors	m2		-4,283
	<u>MTNT-13-GOW 1220x229 Interlocking Vinyl Floor Tile</u> <u>on smooth cement screed to Engineer's specification.</u>			
4/8/2	On floors	m2		9,764
	<u>SKIRTINGS</u>			
	<u>Hardwood skirting</u>			
4/8/3	22 x 100mm hardwood skirting clad in stainless steel	m		285
	<u>POLISH, SEALERS, ETC</u>			
	Carried Forward			
	Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 8 FLOOR COVERINGS, WALL LININGS, ETC		R	

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	Brought Forward			R	
4/8/4	<p><u>Sweep, clean with detergent complying with SABS 825, rinse and apply three coats of water emulsion polish complying with SABS 1042, including buffing after application of each coat of polish</u></p> <p>On vinyl flooring</p>	m2	-496		
	Carried Forward to Summary of Section No. 4			R	
	Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 8 FLOOR COVERINGS, WALL LININGS, ETC				

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Item No		Quantity	Rate	Amount
	<u>SECTION 4</u>			
	<u>BILL NO 9</u>			
	<u>IRONMONGERY</u>			
	<p>For preambles see "Model Preambles for Trades (2008 Edition)" and applicable supplementary preambles as specified in the Trades. The said Model and Supplementary Preambles apply to all work described in this document. Tenderers are therefor referred to these documents for the full meaning and intention of all descriptions as no claims of any kind whatsoever will be entertained in this regard.</p> <p>Tenderers are however also referred to the drawings and additional specifications. If same are in conflict with the above, the drawings and specifications shall take preference.</p>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>IRONMONGERY SUPPLY</u>			
	<u>HINGES, BOLTS, ETC</u>			
	<u>Supply and Install the following items in Ironmongery:</u>			
	<u>HANDLES</u>			
4/9/1	Stainless steel pull handle, details as per schedule	No	51	
4/9/2	Stainless steel push handle, details as per schedule	No	13	
	<u>PUSH PLATES AND KICKING PLATES</u>			
4/9/3	Edge-to-Edge stainless steel kick plate, details as per schedule	No	94	
4/9/4	Stainless steel push plate, details as per schedule	No	46	
	Carried Forward			R
	Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 9 IRONMONGERY			

DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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Brought Forward			R
<u>DOOR CLOSERS</u>			
4/9/5	Door closer	No	11
<u>BATHROOM FITTINGS</u>			
4/9/6	Supply and install "Franke" Jetstream Ecofast stainless steel hand dryer (product code 359989)	No	15
4/9/7	Install toilet roll holder plugged to brickwork	No	56
4/9/8	Install soap dispenser plugged to brickwork.	No	23
4/9/9	Franke Waste Bin size 355 x 168 x 460mm in stainless steel satin finish. Product Code 2120097	No	8
<u>SUNDRIES</u>			
4/9/10	Install door stop	No	56
<u>GRAB RAILS</u>			
<u>"Chairman industries"</u>			
4/9/11	32mm Stainless steel flush valve back rail surface mounted	No	5
4/9/12	32mm Dog leg stainless steel side rail surface mounted (product code DL2/DL3)	No	5
<u>BUDGETARY ALLOWANCE</u>			
4/9/13	Allow the amount for locks, to be measured and priced in accordance with this Bill of Quantities and omitted in part or whole as instructed by Principal Agent		Item 350,000.00
<u>Wall mounted photoluminescent statutory signs in 190 x 190mm modules, fixing details as per signage schedule</u>			
4/9/14	190 x 190mm Sign with single digit one number denoting floor level	No	4
4/9/15	190 x 190mm Sign with single letter denoting floor level	No	2
Carried Forward			R
Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 9 IRONMONGERY			

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Brought Forward			R
4/9/16	190 x 190mm Sign with two letters denoting floor level	No	4
<u>LETTERS, NAMEPLATES, ETC</u>			
4/9/17	100 x 210mm anodised aluminium plate with male or female symbol fixed onto timber door	No	10
4/9/18	100 x 210mm anodised aluminium plate with paraplegic symbol	No	5
<u>VANITIES</u>			
<u>Vanity comprised of a 20mm thick quartz stone splashback and a 30mm thick quartz stone vanity top and downstand on steel frame support to detail by supplier, dimensions as per architect's drawing</u>			
4/9/19	Vanities to Male Toilet Basement -1 Level	No	1
4/9/20	Vanities to Female Toilet Basement -1 Level	No	1
4/9/21	Vanities to Disabled Toilet Basement -1 Level	No	1
4/9/22	Vanities to Male Toilets Lower Ground Level	No	1
4/9/23	Vanities to Female Toilets Lower Ground Level	No	1
4/9/24	Vanities to Disabled Toilet Lower Ground Level	No	1
4/9/25	Vanities to Male Toilets Upper Ground, First & Second Floor	No	3
4/9/26	Vanities to Female Toilets Upper Ground, First & Second Floor	No	3
4/9/27	Vanities to Disabled Toilets Upper Ground, First & Second Floor	No	3
Carried Forward to Summary of Section No. 4			R
Section No. 4			
ADDENDUM 1: MAIN BUILDING			
Bill No. 9			
IRONMONGERY			

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Item No	Quantity	Rate	Amount
<p><u>SECTION 4</u></p> <p><u>BILL NO 10</u></p> <p><u>METALWORK</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and applicable supplementary preambles as specified in the Trades. The said Model and Supplementary Preambles apply to all work described in this document. Tenderers are therefor referred to these documents for the full meaning and intention of all descriptions as no claims of any kind whatsoever will be entertained in this regard.</p> <p>Tenderers are however also referred to the drawings and additional specifications. If same are in conflict with the above, the drawings and specifications shall take preference.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p><u>STEEL HANDRAILS, BALUSTRADES, ETC</u></p>			
Carried Forward			R
<p>Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 10 METALWORK</p>			

DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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Brought Forward			R
	<u>Welded and bolted balustrading to concrete and brickwork</u>		
4/10/1	Stainless steel Balustrading 1100mm high with 50mm diameter stainless steel top rail welded with 100mm diameter ball joints at all intersections with a welded 50mm diameter stainless steel middle rail and 75mm diameter stainless steel post closed at one end with 150mm stainless steel at 1000mm centers bolted to the concrete floor.	m	92
	<u>PRESSED STEEL DOOR FRAMES</u>		
	<u>1.2mm Double rebated frames suitable for half brick walls</u>		
4/10/2	Frame for door 813 x 2032mm high	No	-71
	<u>1.6mm Double rebated frames suitable for one brick walls</u>		
4/10/3	Frame for door 813 x 2032mm high	No	20
4/10/4	Frame for door Type D03: door size 914 x 2134mm high	No	13
4/10/5	Frame for door Type D05c: door size 1524 x 2134mm high	No	23
4/10/6	Frame for door Type D06: door size 813 x 2134mm high	No	19
4/10/7	Frame for door Type D06a: door size 813 x 2134mm high	No	18
4/10/8	Frame for door Type D07a: door size 1626 x 2134mm high	No	36
4/10/9	Frame for door Type D08: door size 750 x 2134mm high	No	5
	<u>POWDER COATED ALUMINIUM FRAMES & DOORS, COMPLETE AS PER SCHEDULE</u>		
4/10/10	Door Type AD01	No	2
4/10/11	Door Type CD01	No	1
4/10/12	Door Type CD02	No	2
	Carried Forward		R
	Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 10 METALWORK		

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Brought Forward			R
4/10/13	Door Type CD03	No	1
4/10/14	Door Type CD04	No	4
4/10/15	Door Type CD05	No	7
4/10/16	Door Type CD06	No	1
<p><u>ALUMINIUM FRAMED, POWDER COATED WINDOWS WITH SINGLE GLAZING AS PER GLAZING SCHEDULE 1: 001 2017/INFRM/500 REV B</u></p>			
4/10/17	Type W01, fixed pane with dimensions 460 mm x 1,220 mm	No	54
4/10/18	Type W01, top hung pane with dimensions 460 mm x 1,220 mm	No	3
4/10/19	Type W02, top hung with dimensions 460 mm x 1,220 mm	No	19
4/10/20	Type W03, fixed pane with dimensions 460 mm x 2,440 mm	No	8
4/10/21	Type W03, top hung pane with dimensions 460 mm x 2,440 mm	No	1
4/10/22	Type W04, fixed pane with dimensions 460 mm x 1,800 mm	No	3
4/10/23	Type W05, fixed pane with dimensions 460 mm x 1,800 mm	No	3
<p><u>GLASS CURTAIN WALL WITH 6.35mm AGC SURNEGY GREY SAFETY GLASS SYSTEM. EXPOSED ALUMINIUM FRAME TO SPECIALIST DETAIL APPROVED BY ARCHITECT</u></p>			
4/10/24	Type CW01 as per schedule including installation and all seals complete	No	1
4/10/25	Type CW02 as per schedule including installation and all seals complete	No	1
Carried Forward			R
<p>Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 10 METALWORK</p>			

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Brought Forward				R
4/10/26	Type CW03 as per schedule including installation and all seals complete	No	1	
4/10/27	Type CW04 as per schedule including installation and all seals complete	No	1	
4/10/28	Type CW05 as per schedule including installation and all seals complete	No	1	
4/10/29	Type CW06 as per schedule including installation and all seals complete	No	1	
4/10/30	Type CW07 as per schedule including installation and all seals complete	No	1	
4/10/31	Type CW08 as per schedule including installation and all seals complete	No	1	
4/10/32	Type CW09 as per schedule including installation and all seals complete	No	1	
	<u>GLAZED SHOPFRONTS WITH 6.35mm AGC SURNEGY GREY SAFETY GLASS SYSTEM. EXPOSED ALUMINIUM FRAME TO SPECIALIST DETAIL APPROVED BY ARCHITECT</u>			
4/10/33	Type SF01 as per schedule including installation and all seals complete	No	1	
4/10/34	Type SF02 as per schedule including installation and all seals complete	No	1	
4/10/35	Type SF03 as per schedule including installation and all seals complete	No	1	
4/10/36	Type SF04 as per schedule including installation and all seals complete	No	1	
4/10/37	Type SF05 as per schedule including installation and all seals complete	No	1	
4/10/38	Type SF06 as per schedule including installation and all seals complete	No	1	
	Carried Forward			R
	Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 10 METALWORK			

**DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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Brought Forward			R
4/10/39	Type SF07 as per schedule including installation and all seals complete	No	1
4/10/40	Type SF08 as per schedule including installation and all seals complete	No	1
4/10/41	Type SF09 as per schedule including installation and all seals complete	No	1
4/10/42	Type SF10 as per schedule including installation and all seals complete	No	1
4/10/43	Type SF11 as per schedule including installation and all seals complete	No	1
4/10/44	Type SF12 as per schedule including installation and all seals complete	No	1
4/10/45	Type SF13 as per schedule including installation and all seals complete	No	1
4/10/46	Type SF14 as per schedule including installation and all seals complete	No	1
4/10/47	Type SF15 as per schedule including installation and all seals complete	No	1
4/10/48	Type SF16 as per schedule including installation and all seals complete	No	1
4/10/49	Type SF17 as per schedule including installation and all seals complete	No	1
4/10/50	Type SF18 as per schedule including installation and all seals complete	No	1
4/10/51	Type SF19 as per schedule including installation and all seals complete	No	1
4/10/52	Type SF20 as per schedule including installation and all seals complete	No	1
4/10/53	Type SF21 as per schedule including installation and all seals complete	No	1
Carried Forward			R
Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 10 METALWORK			

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Brought Forward			R
4/10/54	Type SF22 as per schedule including installation and all seals complete	No	1
4/10/55	Type SF23 as per schedule including installation and all seals complete	No	1
4/10/56	Type SF24 as per schedule including installation and all seals complete	No	1
4/10/57	Type SF25 as per schedule including installation and all seals complete	No	1
4/10/58	Type SF26 as per schedule including installation and all seals complete	No	1
4/10/59	Type SF26 as per schedule including installation and all seals complete	No	1
4/10/60	Type SF27 as per schedule including installation and all seals complete	No	1
4/10/61	Type SF28 as per schedule including installation and all seals complete	No	1
4/10/62	Type SF29 as per schedule including installation and all seals complete	No	1
4/10/63	Type SF30 as per schedule including installation and all seals complete	No	1
4/10/64	Type SF31 as per schedule including installation and all seals complete	No	1
4/10/65	Type SF32 as per schedule including installation and all seals complete	No	1
4/10/66	Type SF33 as per schedule including installation and all seals complete	No	1
4/10/67	Type SF34 as per schedule including installation and all seals complete	No	1
4/10/68	Type SF34 as per schedule including installation and all seals complete	No	1
Carried Forward			R
Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 10 METALWORK			

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Brought Forward			R
4/10/69	Type SF35 as per schedule including installation and all seals complete	No	1
4/10/70	Type SF36 as per schedule including installation and all seals complete	No	1
4/10/71	Type SF37 as per schedule including installation and all seals complete	No	1
4/10/72	Type SF38 as per schedule including installation and all seals complete	No	1
4/10/73	Type SF39 as per schedule including installation and all seals complete	No	1
4/10/74	Type SF40 as per schedule including installation and all seals complete	No	1
4/10/75	Type SF41 as per schedule including installation and all seals complete	No	1
4/10/76	Type SF42 as per schedule including installation and all seals complete	No	1
4/10/77	Type SF43 as per schedule including installation and all seals complete	No	1
4/10/78	Type SF44 as per schedule including installation and all seals complete	No	1
4/10/79	Type SF45 as per schedule including installation and all seals complete	No	1
4/10/80	Type SF46 as per schedule including installation and all seals complete	No	1
4/10/81	Type SF47 as per schedule including installation and all seals complete	No	1
4/10/82	Type SF48 as per schedule including installation and all seals complete	No	1
4/10/83	Type SF49 as per schedule including installation and all seals complete	No	1
Carried Forward			R
Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 10 METALWORK			

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<u>ALUMINIUM LOUVRE SYSTEM AS PER FACADE SECTIONS AND DETAILS DRAWING NUMBER 001_2017/INFRM/406</u>				
<u>East Elevation over CW03 & CW04</u>				
4/10/84	400AF Aerofoil 2 mm extruded aluminium shaped profile. Finish: Powder coated matt grey All fixings and details to manufacturer specification to Architect's approval	No	1	
<u>North Elevation over CW05 with a curved profile</u>				
4/10/85	400AF Aerofoil 2 mm extruded aluminium shaped profile. Finish: Powder coated matt grey All fixings and details to manufacturer specification to Architect's approval	No	1	
<u>Louvres as per Glazing Schedule 1: Drawing Number 001_2017/INFRM/500 Rev B</u>				
4/10/86	L01 as per schedule dimensions 805 mm x 2,400 mm	No	4	
4/10/87	L02 as per schedule dimensions 2,500 mm x 2,500 mm	No	1	
<u>GLASS CURTAIN WALL</u>				
4/10/88	HBS Systems single glazing flush glazed system with 6mm Sunergy Grey Safety shied glazing or equal and approved system	m2	-1,524	
<u>ALUMINIUM LOUVRE SYSTEM</u>				
4/10/89	VersaStyle Louvre System - AF400 x 60mm at 400mm pitch	m2	-1,323	
<u>ALUMINIUM SHOPFRONTS</u>				
4/10/90	Aluminium shopfronts	m2	-330	
Carried Forward to Summary of Section No. 4				R
Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 10 METALWORK				

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Item No		Quantity	Rate	Amount
	<u>SECTION 4</u>			
	<u>BILL NO 11</u>			
	<u>PLASTERING</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and applicable supplementary preambles as specified in the Trades. The said Model and Supplementary Preambles apply to all work described in this document. Tenderers are therefor referred to these documents for the full meaning and intention of all descriptions as no claims of any kind whatsoever will be entertained in this regard.			
	Tenderers are however also referred to the drawings and additional specifications. If same are in conflict with the above, the drawings and specifications shall take preference.			
	<u>SCREEDS</u>			
	<u>Screeds wood floated, on concrete</u>			
4/11/1	Average 75mm thick on floors to falls and currents	m2	1,242	
4/11/2	Average 40mm thick on floors	m2	5,093	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster wood floated on brickwork</u>			
4/11/3	On walls	m2	5,535	
4/11/4	On narrow widths	m2	95	
	<u>One coat rhinolite finish</u>			
4/11/5	On walls	m2	372	
	Carried Forward to Summary of Section No. 4			R
	Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 11 PLASTERING			

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Item No		Quantity	Rate	Amount
	<u>SECTION 4</u>			
	<u>BILL NO. 12</u>			
	<u>TILING</u>			
	<u>PREAMBLES</u>			
	<p>For preambles see "Model Preambles for Trades (2008 Edition)" and applicable supplementary preambles as specified in the Trades. The said Model and Supplementary Preambles apply to all work described in this document. Tenderers are therefor referred to these documents for the full meaning and intention of all descriptions as no claims of any kind whatsoever will be entertained in this regard.</p> <p>Tenderers are however also referred to the drawings and additional specifications. If same are in conflict with the above, the drawings and specifications shall take preference.</p>			
	<u>WALL TILING</u>			
	<u>600 x 300mm Mazista MTMM 100005 bathroom wall tile factory cut, fixed to plastered surfaces with an approved tile adhesive laid on approved tile adhesive to floors</u>			
4/12/1	On walls	m2	347	
4/12/2	On narrow widths	m2	40	
	<u>600 x 300 x 9mm, Mazista MTMM-100005 polished wall tiles fixed to plastered surfaces with an approved tile adhesive</u>			
4/12/3	Tile Skirtings	m	1,137	
	<u>SUNDRIES</u>			
4/12/4	External PVC trimming to corners (Provisional)	m	243	
	<u>FLOOR TILING</u>			
	Carried Forward			R
	Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 12 TILING			

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Brought Forward			R
	<u>152 x 152 x 5mm porcelain floor tiles (PC amount of R 300/m2 for supply and delivery to site net) fixed to screed with an approved tile adhesive and finish all joints with approved waterproof grout strictly to manufacturer specifications</u>		
4/12/5	On floors	m2	-269
4/12/6	100mm High Skirting	m	-219
	<u>300mm x 300mm Grade 1 white glazed ceramic non slip floor tiles (PC amount of R 350,00/m2 for supply and delivery to site net) fixed to screed with an approved tile adhesive and finish all joints with approved waterproof grout strictly to manufacturer specifications</u>		
4/12/7	On floors and landings	m2	-160
4/12/8	100mm High cut skirting tile	m	-67
	<u>600 x 600 x 9mm, Mazista MTNT-13-1313 Charcoal polished wall tiles fixed to plastered surfaces with an approved tile adhesive</u>		
4/12/9	On floors	m2	-263
4/12/10	150mm Skirting Tile	m	-219
	<u>SUNDRIES</u>		
	<u>Aluminium stair nosings, expansion joint strips, etc</u>		
4/12/11	Stair nosings	m	232
	Carried Forward to Summary of Section No. 4		R
	Section No. 4		
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	Bill No. 12		
	TILING		

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Item No		Quantity	Rate	Amount
	<p><u>SECTION 4</u></p> <p><u>BILL NO. 13</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and applicable Supplementary Preambles as specified in the Trades. The said Model and Supplementary Preambles apply to all work described in this document. Tenderers are therefor referred to these documents for the full meaning and intention of all descriptions and no claims of any kind whatsoever will be entertained in this regard.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Wire gratings</u></p> <p>Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings</p> <p><u>Stormwater channels</u></p> <p>Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site</p> <p><u>French drains</u></p> <p>Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site</p> <p><u>Septic tanks</u></p> <p>Descriptions of proprietary type septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions and disposal of surplus material on site</p>			
	Carried Forward		R	
	<p>Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 13 PLUMBING AND DRAINAGE</p>			

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<p style="text-align: center;">Brought Forward</p> <p><u>Stainless steel basins, sinks, wash troughs, urinals, etc</u></p> <p>Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)</p> <p>Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)</p> <p>Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)</p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><u>Sealing of edges</u></p> <p>Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone</p> <p><u>uPVC pipes and fittings</u></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings</p> <p><u>uPVC pressure pipes and fittings</u></p> <p>Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p> <p>Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints</p> <p><u>High density polyethylene (HDPE) pipes and fittings</u></p> <p>Pipes shall be type IV and of the class specified with "Plasson" or "Alprene" compression fittings</p>			R	
Carried Forward			R	
<p>Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 13 PLUMBING AND DRAINAGE</p>				

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<p style="text-align: center;">Brought Forward</p> <p><u>"Polycop" polypropylene pipes</u></p> <p>Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or where so described "Polylock" compression fittings</p> <p>Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p><u>Copper pipes</u></p> <p>Pipes shall be hard drawn and half-hard "Maksal" pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016</p> <p>Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition</p> <p><u>Reducing fittings</u></p> <p>Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained</p> <p><u>Fixing of pipes</u></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 13 PLUMBING AND DRAINAGE</p>		R	

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<p style="text-align: center;">Brought Forward</p> <p><u>Paper wrapping to pipes</u></p> <p>Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings</p> <p><u>Disinfection of water pipework</u></p> <p>Water pipework is to be disinfected at completion in accordance with SABS 1200L (provision for disinfection elsewhere)</p> <p><u>"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.</u></p> <p>Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with 15 % overlaps</p> <p>Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including mastic, tape, "Layflat" sheeting, securing of same, etc</p> <p>Prices for wrapping of pipes shall include for all work as described to couplings in the length</p> <p><u>Laying, backfilling, bedding, etc of pipes</u></p> <p>Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled</p>				R
<p style="text-align: center;">Carried Forward</p> <p>Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 13 PLUMBING AND DRAINAGE</p>				R

**DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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<p style="text-align: center;">Brought Forward</p> <p>Where no manufacturers' instructions exist, pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following: SABS 1200L : Medium-pressure pipelines SABS 1200LD : Sewers SABS 1200LE: Stormwater drainage</p> <p>Pipe trenches, etc shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB : Earthworks (Pipe trenches)</p> <p>Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200LB : Bedding (Pipes)</p> <p>Unless otherwise described bedding of rigid pipes shall be Class B bedding</p> <p><u>General</u></p> <p>Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)</p> <p>Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends</p> <p>Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site</p> <p>Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)</p> <p>Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)</p>				R
<p style="text-align: center;">Carried Forward</p> <p>Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 13 PLUMBING AND DRAINAGE</p>				R

DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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Brought Forward		R
<u>SANITARY FITTINGS</u>		
<u>Supply And Install Sanitary Fittings As Per The Drawings Complete Including All Required Traps, Taps, Valves, Etc. As Well As All Connections To Hot And Cold Water Supply And Waste Water Piping To The Building</u>		
<u>"Duravit"</u>		
4/13/1	Duravit undercounter basin size 525 x 350mm with overflow, without tap platform, with fixings and including 525mm cut out template (product code 03165300)	No -19
4/13/2	Duravit "D-code" White paraplegic wash basin with tap platform 600 x550mm suitable for barrier- free applications (Product code 231260)	No -2
4/13/3	Duravit "starck 3" wall mounted pan size 360 x 540mm complete with soft close seat and cover (product code 220609) in accordance with manufacturers details onto steel support bracket fixed to wall/floor	No -18
4/13/4	Duravit 'Starck 3' white paraplegic wall mounted washdown model suitable for barrier free applications (product code 220309) including seat and cover (code 006241) in accordance with manufacturers details onto steel support bracket fixed to new wall/floor construction	No -4
<u>"Cobra"</u>		
4/13/5	Cobra 'Le Mans' white back entry urinal with outlet trap and metal grating and hanger brackets (product code WA-2214-000)	No -8
<u>TAPS, VALVES, ETC</u>		
<u>Taps</u>		
4/13/6	"Cobra" sensor activated single temperature chrome pillar tap - mains operated with operating pressure 0.3-0.8 bar, flow time pre-adjusted to between 1 to 2600 second. Maximum time period of activation 60 seconds (product code EL - JOE)	No -19
Carried Forward		R
Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 13 PLUMBING AND DRAINAGE		

DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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Brought Forward			R
4/13/7	"Cobra" Paraplegic elbow action chrome pillar tap square type with raised nose and blue indices including 1/4 turn ceramic dist headpart with pressure compensating flow restrictor (product code 503-21B)	No	-5
<u>Valves</u>			
4/13/8	"Cobra" Sensor activated, dual flush, toilet flush valve. Adjustable flush times, intergral solenoid valve with operating pressure 0.3 to 8.0 bar and 24 hour auto flush option for hygiene including under tile installation kit and stainless steel face plate (product code EL-4-213)	No	-18
4/13/9	"Cobra" Sensor activated, urinal flush valve. Adjustable flush times, intergral solenoid valve with operating pressure 0.3 to 8.0 bar and 24 hour auto flush option for hygiene including under tile installation kit and stainless steel face plate (product code EL-8-112)	No	-8
4/13/10	"Cobra" paraplegic electronic flushvalve system to wet services specification to later specifications	No	-2
4/13/11	22 Cast brass fallway gate valve	No	-21
4/13/12	"Cobra watertech No. FJ6000" chromium plated urinal flush valve with "JFT 5.1" flush pipe	No	-8
<u>SANITARY FITTINGS</u>			
<u>Supply And Install Sanitary Fittings As Per The Drawings Complete Including All Required Traps, Taps, Valves, Etc. As Well As All Connections To Hot And Cold Water Supply And Waste Water Piping To The Building</u>			
<u>Manufactured by Duravit</u>			
4/13/13	Duravit "Starck 3" wall mounted pan size 360 x 540mm complete with soft close seat and cover (product code 220609 Pan) in accordance with manufacturers details onto steel support bracket fixed to wall/floor	No	51
Carried Forward			R
Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 13 PLUMBING AND DRAINAGE			

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Brought Forward			R
4/13/14	Duravit Under counter basin, with overflow, without tap platform, fixings included, size 525mm x 350mm. Cut out template provided. Product code 031653.00 Basin	No	46
4/13/15	Duravit Urinal DuraStyle dry, waterless, horizontal outlet Ø 50mm, with air trap and fixing. Product Code: 2808300000 / 2808300007	No	28
4/13/16	Duravit Ceramic Urinal Partition, Fixings Included, size 705 x 400mm, white	No	28
4/13/17	Paraplegic Toilet: Duravit Starck 3 wall mounted wash down model , suitable for barrier-free applications. Product Code: 220309 Pan; Code: 006241 seat and cover; Code: 006500 Fixings for wall mounting. Installation: in accordance with manufacturers details onto steel support bracket fixed to new wall/floor construction.	No	5
4/13/18	Duravit "D-code" washbasin with overflow with tap platform. Suitable for barrier-free Applications. Product Code: 231260 Basin	No	5
<u>Manufactured by Franke or equal and approved</u>			
4/13/19	Jetstream Ecofast Hand Dryer by Franke in stainless steel. Product code: 359989	No	18
<u>Manufactured by Cobra or equal and approved</u>			
4/13/20	Cobra WC flushing system Sensor activated, dual flush, toilet flush valve. Adjustable flush times, integral solenoid valve. Operating pressures 0.3 to 8.0 bar. 24 hour auto flush option for hygiene. Includes under tile installation kit and stainless steel face plate, product code EL-4-213	No	51
4/13/21	Cobra Bottle trap with 75mm deep re-seal, adjustable telescopic pipe. 1 ¼" FI inlet x 50mm PVC outlet to wet services specification. Chrome plated	No	46
Carried Forward			R
Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 13 PLUMBING AND DRAINAGE			

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Brought Forward			R
4/13/22	Cobra slotted waste to suit whb above and to wet services specification. Chrome plated	No	51
<u>Manufactured by Geberit or equal and approved</u>			
4/13/23	Geberit Urinal Actuator Plate sigma 10 urinal application stainless steel brushed, touchless, electronic. Product Code: 116.025.SN.1	No	33
4/13/24	Gerberit in Wall Trap to wet services spec with s/s cover plate to suit	No	5
<u>TAPS, VALVES, ETC</u>			
<u>Taps</u>			
4/13/25	Cobra Sensor activated single temperature pillar tap – mains operated. Product Code: EL - JOE	No	46
4/13/26	Cobra Elbow action pillar tap square type with raised nose and blue indices. Includes 1/4 turn ceramic disk headpart. Pressure compensating flow restrictor. Product Code: 503-21B	No	5
<u>Valves</u>			
4/13/27	"Cobra" Sensor activated, dual flush, toilet flush valve. Adjustable flush times, intergral solenoid valve with operating pressure 0.3 to 8.0 bar and 24 hour auto flush option for hygiene including under tile installation kit and stainless steel face plate (product code EL-4-213)	No	18
4/13/28	"Cobra" Sensor activated, urinal flush valve. Adjustable flush times, intergral solenoid valve with operating pressure 0.3 to 8.0 bar and 24 hour auto flush option for hygiene including under tile installation kit and stainless steel face plate (product code EL-8-112)	No	8
4/13/29	"Cobra" paraplegic electronic flushvalve system to wet services specification to later specifications	No	2
4/13/30	22 Cast brass fallway gate valve	No	21
Carried Forward			R
Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 13 PLUMBING AND DRAINAGE			

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	Brought Forward		R	
4/13/31	"Cobra watertech No. FJ6000" chromium plated urinal flush valve with "JFT 5.1" flush pipe	No	8	
	<u>BUDGETARY ALLOWANCE</u>			
4/13/32	Allow the amount for plumbing fittings, to be measured and priced in accordance with this Bill of Quantities and omitted in part or whole as instructed by Principal Agent		Item	225,000.00
	Carried Forward to Summary of Section No. 4		R	
	Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 13 PLUMBING AND DRAINAGE			

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Item No		Quantity	Rate	Amount
	<u>SECTION 4</u>			
	<u>BILL NO. 14</u>			
	<u>GLAZING</u>			
	<u>PREAMBLES</u>			
	<p>For preambles see "Model Preambles for Trades (2008 Edition)" and applicable supplementary preambles as specified in the Trades. The said Model and Supplementary Preambles apply to all work described in this document. Tenderers are therefor referred to these documents for the full meaning and intention of all descriptions as no claims of any kind whatsoever will be entertained in this regard.</p> <p>Tenderers are however also referred to the drawings and additional specifications. If same are in conflict with the above, the drawings and specifications shall take preference.</p>			
	<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>			
	<u>6mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u>			
4/14/1	Mirror 1200 x 1600mm high with six screws	No	-11	
	<u>MIRRORS</u>			
	<u>6mm safety mirror with concealed fixings on timber subframe with stainless steel trim edges to later detail dimensions as per architect's drawings</u>			
4/14/2	Male Toilet Basement -1 Level	No	1	
4/14/3	Female Toilet Basement -1 Level	No	1	
4/14/4	Disabled Toilet Basement -1 Level	No	1	
4/14/5	Male Toilets Lower Ground Level	No	1	
	Carried Forward			R
	Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 14 GLAZING			

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	Brought Forward			R
4/14/6	Female Toilets Lower Ground Level	No	1	
4/14/7	Disabled Toilet on Lower Ground Level	No	1	
4/14/8	Male Toilets Upper Ground, First & Second Floor	No	3	
4/14/9	Female Toilets Upper Ground, First & Second Floor	No	3	
4/14/10	Disabled Toilets Upper Ground, First & Second Floor	No	3	
Carried Forward to Summary of Section No. 4				R
Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 14 GLAZING				

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Item No		Quantity	Rate	Amount
	<u>SECTION 4</u>			
	<u>BILL NO. 15</u>			
	<u>PAINTWORK</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and applicable supplementary preambles as specified in the Trades. The said Model and Supplementary Preambles apply to all work described in this document. Tenderers are therefor referred to these documents for the full meaning and intention of all descriptions as no claims of any kind whatsoever will be entertained in this regard.			
	Tenderers are however also referred to the drawings and additional specifications. If same are in conflict with the above, the drawings and specifications shall take preference.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>COLOURS</u>			
	Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SABS 1091			
	<u>PAINTWORK TO NEW WORK</u>			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat "Plascon" merit plaster primer and two coats "Plascon" polvin super acrylic PVA paint</u>			
4/15/1	On internal walls	m2	2,898	
	<u>One coat luco bonding liquid paint</u>			
4/15/2	On internal walls	m2	248	
	<u>ON METAL SURFACES</u>			
	Carried Forward			R
	Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 15 PAINTWORK			

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	Brought Forward			R
4/15/3	<p><u>One coat "Plascon Namelcoat" synthetic metal primer and two coats "Plascon Velvaglo" enamel paint</u></p> <p>On rails, bars, pipes, etc not exceeding 300 mm girth</p>	m	46	
	Carried Forward to Summary of Section No. 4			R
	<p>Section No. 4 ADDENDUM 1: MAIN BUILDING Bill No. 15 PAINTWORK</p>			

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Bill No	Section No. 4 ADDENDUM 1: MAIN BUILDING <u>SECTION SUMMARY - ADDENDUM 1: MAIN BUILDING</u>	Page No	Amount
4/1	ALTERATIONS	224	
4/2	EARTHWORKS	225	
4/3	CONCRETE, FORMWORK & REINFORCEMENT	227	
4/4	MASONRY	230	
4/5	WATERPROOFING	231	
4/6	CARPENTRY & JOINERY	234	
4/7	CEILINGS, PARTITIONS & ACCESS FLOORING	237	
4/8	FLOOR COVERINGS, WALL LININGS, ETC	239	
4/9	IRONMONGERY	242	
4/10	METALWORK	250	
4/11	PLASTERING	251	
4/12	TILING	253	
4/13	PLUMBING AND DRAINAGE	263	
4/14	GLAZING	265	
4/15	PAINTWORK	267	
	Carried to Final Summary		R
	Section No. 4 ADDENDUM 1: MAIN BUILDING		

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Item No		Quantity	Rate	Amount
	<p><u>SECTION 5</u></p> <p><u>BILL NO 1</u></p> <p><u>PROVISIONAL AMOUNTS FOR SELECTED SUBCONTRACT WORK</u></p> <p>For preambles refer to "Model Preambles for Trades"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Provisional amounts</u></p> <p>All provisional amounts are net and include for delivery to site of all articles concerned</p> <p><u>Profit</u></p> <p>Where stated, the contractor may allow for profit if required</p> <p><u>General attendance on selected subcontractors</u></p> <p>The item "Attendance" which follows each provisional sum for selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the selected subcontractors, the following:</p> <ol style="list-style-type: none"> 1. The services as set out in clause B9 of the Preliminaries 2. Hoisting of the selected subcontractor's material in batches that can be handled by the contractor's hoist or crane during normal working hours 3. Making good in all trades and cleaning down and removal of rubbish on completion <p><u>Design Development</u></p>			
5/1/1	Provide a sum for Design Development by the Employer to be used as directed by the Principal Agent or omitted in part or whole if not required	Item		2,000,000.00
	Carried Forward		R	
	Section No. 5 ADDENDUM 1: PROVISIONAL SUMS Bill No. 1 ADDITIONAL PROVISIONAL SUMS			

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	Brought Forward		R	
	<u>Additional structural works</u>			
5/1/2	Provide a sum for Additional Structural Works to be used as directed by the Principal Agent or omitted in part or whole if not required	Item	500,000.00	
	<u>Escalators</u>			
5/1/3	Allow a sum for Escalator Installation to be measured and priced in accordance with this Bill of Quantities and omitted in part or whole as instructed by Principal Agent	Item	1,800,000.00	
5/1/4	Add for profit	Item		
5/1/5	Allow for attendance	Item		
	<u>Lift Extension & Goods Hoist</u>			
5/1/6	Allow a sum for Lifts Extension & Goods Hoist to be measured and priced in accordance with this Bill of Quantities and omitted in part or whole as instructed by Principal Agent	Item	1,630,000.00	
5/1/7	Add for profit	Item		
5/1/8	Allow for attendance	Item		
	<u>Wet Services Installation</u>			
5/1/9	Allow a sum for Wet Services Installation to be measured and priced in accordance with this Bill of Quantities and omitted in part or whole as instructed by Principal Agent	Item	1,020,000.00	
5/1/10	Add for profit	Item		
5/1/11	Allow for attendance	Item		
	Carried to Final Summary		R	
	Section No. 5 ADDENDUM 1: PROVISIONAL SUMS Bill No. 1 ADDITIONAL PROVISIONAL SUMS			

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Item No		Quantity	Rate	Amount
	<u>SECTION 6</u>			
	<u>BILL NO. 1</u>			
	<u>ELECTRICAL INSTALLATION</u>			
	<u>L.V. CABLING</u>			
6/1/1	Busbar: Rates to include for supply, delivery and installation. 400V, 1600A, Copper, Resin encapsulated, 4 core	m	70	
6/1/2	Cables: Rates to include for supply, delivery and installation, but excluding trenching, terminations, joints and cable supports for PVC/SWA 600/1000V copper cables laid in trenches, installed in sleeves, fixed on surface and laid on trays: 240mm ² x 4-core PVC-SWA ECC cable.	m	60	
6/1/3	185mm ² x 4-core PVC-SWA ECC cable.	m	1,200	
6/1/4	150mm ² x 4-core PVC-SWA ECC cable.	m	425	
6/1/5	120mm ² x 4-core PVC-SWA ECC cable.	m	75	
6/1/6	95mm ² x 4-core PVC-SWA ECC cable.	m	151	
6/1/7	70mm ² x 4-core PVC-SWA ECC cable.	m	60	
6/1/8	16mm ² x 4-core PVC-SWA ECC cable.	m	36	
6/1/9	10mm ² x 4-core PVC-SWA ECC cable.	m	74	
6/1/10	6mm ² x 4-core PVC-SWA ECC cable.	m	300	
6/1/11	4mm ² x 4-core PVC-SWA ECC cable.	m	174	
6/1/12	2,5mm ² x 4-core PVC-SWA ECC cable.	m	662	
	Carried Forward			R
	Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 1 ELECTRICAL INSTALLATION			

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Brought Forward				R
6/1/13	2,5mm ² x 3-core PVC-SWA cable.	m	300	
6/1/14	Cable Terminations: For PVC-SWA cables including armour glands, shrouds, lugs and connections: 245mm ² x 4-core copper, ECC.		Item	
6/1/15	185mm ² x 4-core copper, ECC		Item	
6/1/16	150mm ² x 4-core copper, ECC		Item	
6/1/17	120mm ² x 4-core copper, ECC		Item	
6/1/18	95mm ² x 4-core copper, ECC		Item	
6/1/19	16mm ² x 4-core copper, ECC		Item	
6/1/20	10mm ² x 4-core copper, ECC		Item	
6/1/21	6mm ² x 4-core copper, ECC		Item	
6/1/22	4mm ² x 4-core copper, ECC		Item	
6/1/23	2,5mm ² x 4-core copper, ECC		Item	
6/1/24	2,5mm ² x 3-core copper.		Item	
6/1/25	Supply and install 200mm wide PVC electricity warning tape.	m	170	
6/1/26	Bare copper earth conductors installed with cables and drawn into conduits with PVC conductors as specified in the Specification, including terminations: 2,5mm ² .	m	35,290	
6/1/27	Approved galvanised medium duty, perforated cable trays suspended from purlins & trusses by means of threaded rods or similar approved method, including offsets as per drawings: 304 wide.	m	400	
Carried Forward				R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 1 ELECTRICAL INSTALLATION				

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Brought Forward			R
6/1/28	Approved galvanised medium duty wire mesh cable baskets suspended from purlins & trusses by means of threaded rods or similar approved method, including offsets as per drawings: 200 wide.	m	450
6/1/29	Approved galvanised heavy duty cable ladder, with 76mm side rail height, suspended from roof structure by means of vertical threaded rods and horizontal unistrut at 1500mm centres: 500 wide	m	180
6/1/30	400 wide	m	120
6/1/31	50mmØ PVC sleeve laid in 600mm deep trench.	m	300
6/1/32	100mmØ PVC sleeve laid in 600mm deep trench.	m	110
<u>CONDUITS, CHANNELS, WIRING AND ACCESSORIES</u>			
<u>PVC conduit cast in concrete, including terminations:</u>			
6/1/33	PVC conduit fixed on surface, including terminations: 25mm.	m	9,612
6/1/34	PVC conduit fixed in chase in brickwork, including chasing and terminations:. (Making good by others): 25mm.	m	5,467
<u>Conduit Boxes:</u>			
6/1/35	Conduit drawboxes, complete with covers, fixed on surface or wiring channel: 60mm round x 25mm deep.		Item
6/1/36	100 x 50 x 50mm.		Item
6/1/37	100 x 100 x 50mm.		Item
Carried Forward			R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 1 ELECTRICAL INSTALLATION			

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Brought Forward			R
6/1/38	Conduit drawboxes, complete with covers fixed in chase in brickwork, including chasing. (Making good by others): 60mm round x 25mm deep.	Item	
6/1/39	100 x 50 x 50mm.	Item	
6/1/40	100 x 100 x 50mm.	Item	
6/1/41	Flush outlet boxes, excluding covers, fixed in chase in brickwork, including chasing. (Making good by others): 100 x 50 x 50mm.	Item	
6/1/42	100 x 100 x 50mm.	Item	
6/1/43	Core Drilling through concrete slab 50mm Diameter coring	Item	
6/1/44	110mm Diameter coring	Item	
6/1/45	160mm Diameter coring	Item	
6/1/46	Galvanised draw-wires installed in conduits and cable sleeves.	m	9,000
6/1/47	2-compartment 3-tier Cabstrut "Classic" powerskirting as specified, surface mounted on perimeter wall/partition, including all accessories, front covers, chassis punched holes and installation. Surface mounted.	m	780
6/1/48	90 Bends.	Item	
6/1/49	45 Bends.	Item	
6/1/50	End caps.	Item	
6/1/51	Data/Telephone outlet plates.	Item	
Carried Forward			R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 1 ELECTRICAL INSTALLATION			

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Brought Forward			R
6/1/52	Galvanised wiring trunking complete with all accessories, coverplates, and supports as indicated on drawings, suspended from slab, excluding conduit work and wiring, and with pre-punched openings for power outlets to specification: P8000 (76 x 76mm).	m	3,600
6/1/53	90 bends: P8000 (76 x 76mm).		Item
6/1/54	T-pieces: P9000 (126 x 76mm).		Item
6/1/55	P8000 (76 x 76mm).		Item
6/1/56	End caps: P9000 (126 x 76mm).		Item
6/1/57	P8000 (76 x 76mm).		Item
	PVC insulated MVGP grade conductor drawn into conduit, wiring channel, trunking or powerskirting: 1.5mm ² .		
6/1/58	2.5mm ² .	m	70,240
6/1/59	4mm ² .	m	340
6/1/60	MVGP grade bare copper earthwire, drawn into conduit, wiring channel or powerskirting: 2.5mm ² .	m	35,316
6/1/61	SABS approved Norsk or equal approved cable laid on ceiling tiles or drawn into conduit chased into walls: 2,5mm ² x 2-core.	m	420
6/1/62	4mm ² x 2-core.	m	310
6/1/63	Termination by means of gripper glands: 2,5mm ² x 2-core.		Item
Carried Forward			R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 1 ELECTRICAL INSTALLATION			

DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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Brought Forward			R
6/1/64	4mm ² x 2-core.	Item	
<u>APPLIANCES</u>			
<u>Switched Sockets:</u>			
6/1/65	Crabtree, or equal and approved 16A 3-pin single phase standard switched socket outlet. Tenderer to price for supply, storage, installation and connection of the socket and switch assembly and coverplate, but excluding box: Flush mounted.	Item	
6/1/66	Surface mounted industrial type.	Item	
6/1/67	Flush mounted in powerskirting or floor pedestal.	Item	
6/1/68	Surface mounted on P8000 trunking.	Item	
6/1/69	Crabtree, or equal and approved 16A shaved-pin flat earth pin type single phase switched socket outlet. Tenderer to price for storage, installation and connection of the socket and switch assembly and coverplate, but excluding box and switch socket outlet: Flush mounted.	Item	
6/1/70	Flush mounted in powerskirting. - red (UPS)	Item	
6/1/71	Crabtree, or equal and approved 20A D.P. isolator. Tenderer to price for storage, installation and connection of the isolator and associated equipment, but excluding box and isolator: Flush mounted.	Item	
6/1/72	Geysers Connection:	Item	
6/1/73	Hand drier Connection:	Item	
6/1/74	Supply and installation, including box and connection of isolator, but excluding connection from isolator to machine terminals: 30A T.P. flush mounted.	Item	
Carried Forward			R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 1 ELECTRICAL INSTALLATION			

DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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Brought Forward			R
6/1/75	Flush 30A D.P. mounted.	Item	
6/1/76	60A T.P. flush mounted.	Item	
6/1/77	30A T.P. weatherproof isolator.	Item	
6/1/78	60A T.P. weatherproof isolator.	Item	
6/1/79	"Pop-up" column type power unit complete with 2 x 16A Switched Socket Outlets. Tenderer to price for storage, installation and connection of the "Pop-up" columns and socket outlets, but excluding column and socket outlet. (Legrand type)	Item	
<u>PVC covered flexible conduit for machine/appliance connections:</u>			
6/1/80	Approved outdoor photocell unit with 20A S.P. 220V contact, time delay and adjustable switch threshold lux level.	Item	
<u>LIGHTING</u>			
6/1/81	Supply, Install, Accept, store, erect, fix and connect the following light fittings as specified inclusive of electrical contractor's profit and attendance Type "A1" - 600 x 600mm Recessed fluorescent luminaire, Siron 2 x 24W T5 lamps, white LJR 11-224-002.	Item	
6/1/82	Type "A1E" - Same as type "A1" with emergency battery back-up, 20% for 1hr.	Item	
6/1/83	Type "B1" - Round Picanto mini bulkhead with 1 x PL26/ECG (BPM-126-001)	Item	
6/1/84	Type "B1E" - Same as type "B1" with emergency battery back-up.	Item	
6/1/85	Type "C1" - 600 X 600mm Recessed fluorescent luminaire Logus ML 2 x 24W T5 lamps with prismatic diffuser, RDFM -224-002	Item	
Carried Forward			R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 1 ELECTRICAL INSTALLATION			

**DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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Brought Forward			R
6/1/86	Type "C1E" - Same as type "C" with emergency battery back-up, 20% for 1hr.	Item	
6/1/87	Type "D1" - 7W Recessed LED Down lighter	Item	
6/1/88	Type "D1E" - Same as type "D1" with emergency battery back-up.	Item	
6/1/89	Type "D2" - Aluminum adjustable lock ring down lighter (11W CFL Lamp)	Item	
6/1/90	Type "D2E" - Same as type "D2" with emergency battery back-up.	Item	
6/1/91	Type "F1" - Narrow Alpha channel 1 x 25W T5 fluorescent lamp (SCN-125-002)	Item	
6/1/92	Type "F1E" - Same as type "F1" with emergency battery back-up.	Item	
6/1/93	Type "F2" - 300 x 1200mm suspended fluorescent luminaire with 2 x 28w T5 lamps	Item	
6/1/94	Type "F2E" - Same as type "F2" with emergency battery back-up.	Item	
6/1/95	Type "F3" - Surface fluorescent luminaire, chico channel with wire mesh guard. (SHG-125-002)	Item	
6/1/96	Type "F3E" - Same as type "F3" with emergency battery back-up.	Item	
6/1/97	Type "H1" - Vapour proof 2 x 58W low temperature IPA-258-001/LT	Item	
6/1/98	Supply, install and connect the following switches, excluding box. (Surface mounted switches to be industrial type): 5A, 15A one-way, 1-lever flush mounted.	Item	
Carried Forward			R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 1 ELECTRICAL INSTALLATION			

**DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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	Brought Forward			R
6/1/99	5A, 15A one-way, 2-lever, flush mounted.		Item	
6/1/100	Multi-Technology ceiling mounted occupancy sensor		Item	
6/1/101	5A, 3-pin unswitched socket suitable for 65mm dia conduit box or 100 x 100 x 50mm conduit box (2, 5A sockets per box), or P8300 trunking.		Item	
	<u>ATTENDANCE, TESTING & COMMISSIONING</u>			
6/1/102	Test and commission the complete installation included in the Bills and balance load equally over three phases, as necessary.			SUM
	<u>DAYWORKS</u>			
	The rates for labour in Dayworks are to be applied to the hours worked and they are to include for the cost of labour, overheads, profit, all levies, bonuses and leave pay. Dayworks are to be employed only on written instructions from the Engineer:			
6/1/103	Electrician.	Hrs	80.00	
6/1/104	Labourer.	Hrs	160.00	
	Time sheets specifying the time spent daily upon the work (with the names of the workmen) and the materials employed in Dayworks shall be delivered to the Engineer weekly in accordance with the terms of the Conditions of Contract.			
	<u>DISTRIBUTION BOARDS</u>			
6/1/105	Supply, install and connect up, including conduit and earthing terminations, but excluding cable terminations of DB-M (Main distribution board, dwg no. 3136-500-EL01 rev T).		Item	
	Carried Forward			R
	Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 1 ELECTRICAL INSTALLATION			

**DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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Brought Forward			R
6/1/106	Supply, install and connect up, including conduit and earthing terminations, but excluding cable terminations of DB-Chiller(Chiller didtribution board, dwg no. 3136-500-EL02 rev T).	Item	
6/1/107	Supply, install and connect up, including conduit and earthing terminations, but excluding cable terminations of DB-G(Generator distribution board, dwg no. 3136-500-EL03 rev T).	Item	
6/1/108	Supply, install and connect up, including conduit and earthing terminations, but excluding cable terminations of DB-LT (Low tentionroom distribution board, drawing 3136-500-EL04 rev T).	Item	
6/1/109	Supply, install and connect up, including conduit and earthing terminations, but excluding cable terminations of DB-MV (Medium voltage room distribution board, drawing 3136-500-EL04 rev T).	Item	
6/1/110	Supply, install and connect up, including conduit and earthing terminations, but excluding cable terminations of DB-CC (Conference Centre distribution board, dwg no. 3136-501-EL01 rev T)	Item	
6/1/111	Supply, install and connect up, including conduit and earthing terminations, but excluding cable terminations of DB-LG (Lower ground distribution board, dwg no. 3136-502-EL01 rev T).	Item	
6/1/112	Supply, install and connect up, including conduit and earthing terminations, but excluding cable terminations of DB-UG (Upper ground distribution board, dwg no. 3136-503-EL01 rev T).	Item	
6/1/113	Supply, install and connect up, including conduit and earthing terminations, but excluding cable terminations of DB-1F(First floor distribution board, dwg no. 3136-504-EL01 rev T).	Item	
Carried Forward			R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 1 ELECTRICAL INSTALLATION			

**DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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ADDENDUM 1**

Brought Forward			R
6/1/114	Supply, install and connect up, including conduit and earthing terminations, but excluding cable terminations of DB-2F(Second floor distribution board, dwg no. 3136-505-EL01 rev T).	Item	
6/1/115	Supply, install and connect up, including conduit and earthing terminations, but excluding cable terminations of DB-R(Restaurant distribution board, dwg no. 3136-505-EL02 rev T).	Item	
6/1/116	Equipment on Boards: Rates to include for the supply, installation and connecting in a prefitted distribution board of the following equipment. Type numbers refer to Merlin Gerin equipment: NS250N T.P. MCB	Item	
6/1/117	NS160H T.P. MCB	Item	
6/1/118	NS100H T.P. MCB	Item	
6/1/119	C32H S.P. MCB	Item	
6/1/120	C60 T.P. MCB	Item	
6/1/121	LT1/40kA surge arrester.	Item	
6/1/122	LT1/6,5kA surge arrester.	Item	
6/1/123	100A T.P. GEC or Sangamo kWh meter.	Item	
6/1/124	60A D.P. shunt trip isolator with E/L relay (20mA sensitivity).	Item	
6/1/125	60A T.P. shunt trip isolator with E/L relay (20mA sensitivity).	Item	
6/1/126	30A T.P. contactor.	Item	
Carried Forward			R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 1 ELECTRICAL INSTALLATION			

DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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	Brought Forward		R	
	<u>BUDGETARY ALLOWANCE</u>			
6/1/127	Allow for decommissioning existing installation, to be omitted in part or whole as instructed by Principal Agent	Item		50,000.00
6/1/128	Amount for electrical reticulation to equipment and extraction systems for the kitchen proposed on the Second Floor (top floor). All kitchen equipment and extraction equipment is excluded.		SUM	
6/1/129	Amount for the earthing and lightning protection to the building.		SUM	
6/1/130	Amount for the 425kVA, 400V, power factor correction panel		SUM	
6/1/131	Amount for the dimming system in the conference centre		SUM	
6/1/132	Amount for 80kVA UPS		SUM	
6/1/133	Amount for the perimeter lighting		SUM	
	Carried Forward to Summary of Section No. 6		R	
	Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 1 ELECTRICAL INSTALLATION			

DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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Item No		Quantity	Rate	Amount
	<u>SECTION 6</u>			
	<u>BILL NO. 2</u>			
	<u>FIRE DETECTION INSTALLATION</u>			
	<u>ADDRESSABLE FIRE PANELS</u>			
	<u>Addressable Fire Panel - 4 Loop</u>			
6/2/1	Repeater Panel	Item		
6/2/2	Fire Brigade Link	Item		
6/2/3	Network Card (future provision)	Item		
6/2/4	Passive Mimic - floor plan	Item		
6/2/5	Programming of fire panel and CD	Item		
6/2/6	DETECTORS			
	Addressable Optical Detector & Base	Item		
6/2/7	Addressable Heat Detector & Base	Item		
6/2/8	Addressable IR Detector	Item		
6/2/9	ADDRESSABLE DEVICES			
	Addressable Break Glass Unit	Item		
6/2/10	Addressable Strobe	Item		
6/2/11	Addressable Line Isolator	Item		
6/2/12	INTERFACE DEVICES			
	Addressable I/O Units With Housing	Item		
6/2/13	Air conditioning interface	Item		
6/2/14	Addressable Interfaces To Monitor F/S	Item		
	Carried Forward		R	
	Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 2 FIRE DETECTION INSTALLATION			

DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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 ADDENDUM 1

	Brought Forward			R
	<u>Cabling and Accessories</u>			
6/2/15	Fire resistant cable provisional sum	m	4,100	
6/2/16	Power cable & accessories	m	50	
	<u>General - Addressable Panels</u>			
6/2/17	Installation Labour			SUM
6/2/18	Logbook holder/logbook/laminated instruction		Item	
	<u>VOICE EVACUATION</u>			
	<u>AMPLIFIER AND PANELS</u>			
6/2/19	Extension amplifier		Item	
6/2/20	1 Channel power amplifier - 420 W RMS per channel		Item	
6/2/21	Power amplifier input module		Item	
6/2/22	Remote microphone c/w interface to voice alarm		Item	
	<u>SPEAKERS</u>			
6/2/23	5" 6 watt clip-in ceiling speaker		Item	
6/2/24	10W Horn Speaker		Item	
6/2/25	CABLING Fire resistant cabling (m)	m	3,050	
	<u>RACKS AND ACCESSORIES</u>			
6/2/26	Emergency Power Supply Unit		Item	
6/2/27	12 V 65 A/H Battery		Item	
6/2/28	25U Rack c/w factory build, testing, cooling fan, termination, commissioning, programming and certificate		Item	
	Carried Forward			R
	Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATION Bill No. 2 FIRE DETECTION INSTALLATION			

DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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Brought Forward			R
6/2/29	Power cable & accessories	m	50
<u>GENERAL - VOICE EVACUATION</u>			
6/2/30	Engineering drawings and documentation		Item
6/2/31	Sundries		SUM
6/2/32	Installation Labour		SUM
6/2/33	FM200 gas cylinder for 130m ³ (server room)		Item
6/2/34	Addressable gas control unit		Item
6/2/35	Addressable gas siren and strobe		Item
6/2/36	24V bell		Item
6/2/37	24V 3A power supply with batteries		Item
6/2/38	Fire retardant cable	m	915
6/2/39	Room integrity test		Item
6/2/40	Certificate of compliance		Item
<u>PROJECT ENGINEERING, MANAGEMENT AND QUALITY CONTROL</u>			
6/2/41	Sundries		SUM
6/2/42	Installation Labour		SUM
6/2/43	Guarantee for 12 months		SUM
6/2/44	Site Supervision		SUM
6/2/45	Testing & commissioning		SUM
6/2/46	As built drawings	No	3
Carried Forward			R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 2 FIRE DETECTION INSTALLATION			

DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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	Brought Forward				
6/2/47	Maintenance & operation manuals	No	3		R
6/2/48	Training of operators		Item		
Carried Forward to Summary of Section No. 6					R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 2 FIRE DETECTION INSTALLATION					

DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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Item No		Quantity	Rate	Amount
	<u>SECTION 6</u>			
	<u>BILL NO. 3</u>			
	<u>AUTOMATIC SPRINKLER & FIRE PROTECTION INSTALLATION</u>			
	<u>AUTOMATIC SPRINKLER INSTALLATION</u>			
	<u>All sprinkler rates are to be priced per point including all necessary piping, fittings, painting, hangers etc. to install a complete sprinkler system as per SANS 10287</u>			
6/3/1	All floors (Conference Centre - 2nd floor) Ceiling sprinklers (5mm/min)	No	1,100	
6/3/2	Control Equipment 100mm Installation control valves	No	2	
6/3/3	Flow switches	No	2	
6/3/4	100mm Life safety Bypass arrangement on each level	No	5	
	<u>Water Supplies</u>			
	<u>All pumps, tanks and relevant pump house equipment to conform to ASIB 11th Edition Code of Practice</u>			
	<u>Fire Pumps & associated pump house piping</u>			
	<u>Replacement pumps if the existing pumps do not comply to the minimum system requirements. This shall be confirmed when detailed hydraulic calculations have been confirmed.</u>			
6/3/5	Diesel pump set rated at 1560 l/min @ 950kPa	No	1	
6/3/6	Electric pump set rated at 1560 l/min @ 950kPa	No	1	
6/3/7	Hydrants Diesel pump at 1300l/min @ 950kPa	No	1	
6/3/8	Hydrants Electric pump at 1300l/min @ 950kPa	No	1	
	Carried Forward			R
	Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 3 AUTOMATIC SPRINKLER & FIRE PROTECTION INSTA			

**DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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ADDENDUM 1**

Brought Forward			R
6/3/9	Strip existing pumps and replace with new	No	1
6/3/10	All necessary pump house pipework, valves and accessories, including suction, delivery, auto-start arrangement, etc.		Item
6/3/11	Connecting Mains 100mm MQB SANS 62 Sprinkler delivery and drainage to a dedicated tank mains piping, including all fittings, hangers, painting etc.	m	450
6/3/12	100mm MQB SANS 62 Sprinkler drain mains piping, including all fittings, hangers, painting etc.	m	80
<u>FIRE PROTECTION EQUIPMENT</u>			
6/3/13	Fire protection equipment 65mm instant head fire hydrants	No	10
6/3/14	30m fire hose reel complete with piping and fittings	No	25
6/3/15	4.5kg DCP Fire Extinguisher	No	50
6/3/16	Smoke management fans Allow for fire rated smoke fans (7500l/s@350kPa)	No	3
<u>STATUTORY FIRE SIGNAGE</u>			
<u>Supply and install photoluminescent signs (190mm height) in accordance with SANS 1186. Signs shall be framed in anodized aluminium frames and be Mechanically fixed to slabs and soffits as per Signage Schedule</u>			
6/3/17	Type E1 and E2	No	15
6/3/18	Type E3	No	40
6/3/19	Type F2 and F3	No	10
6/3/20	Type F4	No	5
6/3/21	Type F5 and F6	No	15
Carried Forward			R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 3 AUTOMATIC SPRINKLER & FIRE PROTECTION INSTA			

DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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	Brought Forward			R	
6/3/22	Type F22	No	25		
6/3/23	Type F23	No	10		
	<u>GENERAL</u>				
6/3/24	Clearance of rubbish		Item		
6/3/25	Site Establishment and clearance		Item		
6/3/26	Site supervision		Item		
6/3/27	Tests and inspections		Item		
6/3/28	As-built drawings		Item		
6/3/29	12 Month Guarantee and maintenance		Item		
6/3/30	Testing, balancing and commissioning		Item		
6/3/31	Equipment submissions		Item		
6/3/32	Contract drawings		Item		
6/3/33	Allow for smoke extract fire rated fans (7500l/s @ 350kPa)	No	2		
6/3/34	Any items not listed:			SUM	
	<u>BUDGETARY ALLOWANCE</u>				
6/3/35	Allow for decommissioning existing installation, to be omitted in part or whole as instructed by Principal Agent		Item		200,000.00
	Carried Forward to Summary of Section No. 6			R	
	Section No. 6				
	ADDENDUM 1: ENGINEERING SERVICES INSTALLATI				
	Bill No. 3				
	AUTOMATIC SPRINKLER & FIRE PROTECTION INSTA				

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Item No		Quantity	Rate	Amount
	<u>SECTION 6</u>			
	<u>BILL NO. 4</u>			
	<u>HEATING, VENTILATION AND AIR CONDITIONING INSTALLATION</u>			
	<u>CHILLER MAIN SYSTEM</u>			
6/4/1	Chiller Unit at a Capacity of 534kW Cooling Capacity complete with soft start option on Chiller Unit	No	1	
6/4/2	Chilled Water Pumps at a flow rate of 25L/s, Pressure of 250kPa complete with variable speed drives.	No	2	
6/4/3	Complete Chilled Water Piping for Chiller System.		Item	
6/4/4	Complete Chilled Water Piping Insulation for Chiller System.		Item	
6/4/5	Complete Chilled Water Valves for Chiller System.		Item	
6/4/6	Water medium/solution for the chilled water system (including any water treatment/corrosion inhibitors required for the efficient operation of the chilled water system)		Item	
6/4/7	Main Control System for Chilled Water System including all controls and electronic system and wiring.		Item	
6/4/8	200L Capacity closed pressurised expansion Chilled Water System Tank.	No	1	
	<u>BASEMENT -1 LEVEL</u>			
6/4/9	Fresh air Intake Air Handling Unit at 2700L/s, Cooling Capacity of 41kW, complete with HEPA Primary and Secondary Filters at 99.7% performance, installation shall include all necessary accessories to complete installation.	No	1	
	Carried Forward			R
	Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 4 HVAC INSTALLATION			

**DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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ADDENDUM 1**

Brought Forward			R
6/4/10	Fresh air Intake Air Handling Unit at 5300L/s, Cooling Capacity of 97kW, complete with HEPA Primary and Secondary Filters at 99.7% performance, installation shall include all necessary accessories to complete installation.	No	1
6/4/11	Conference Centre Air Handling Units Controls i.e., System Piping including Insulation, Electronics and Electric controls.		Item
6/4/12	Conference Centre Air Handling Units Chilled Water Valves		Item
6/4/13	Conference Centre Air Handling Units Insulated Ducting System including all bends, Tee and all ducting accessories for complete ducting installation.		Item
6/4/14	Conference Centre Ducting System Return Air Grilles.		Item
6/4/15	Conference Centre Ducting System Return Air Motorized Dampers.		Item
6/4/16	Conference Centre Ducting System VAV Reheat Diffusers complete with controls.		Item
6/4/17	Conference Centre Ducting System Jet Nozzles		Item
<u>LOWER GROUND FLOOR</u>			
6/4/18	Fresh air Intake Air Handling Unit at 6815L/s, Cooling Capacity of 76kW, complete with HEPA Primary and Secondary Filters at 99.7% performance, installation shall include all necessary accessories to complete installation.	No	1
6/4/19	Lower Ground Level Air Handling Units Controls i.e., System Piping including Insulation, Electronics and Electric controls.		Item
6/4/20	Lower Ground Level Air Handling Units Chilled Water Valves		Item
Carried Forward			R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 4 HVAC INSTALLATION			

**DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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ADDENDUM 1**

Brought Forward				R
6/4/21	Lower Ground Level Air Handling Units Insulated Ducting System including all bends, Tee and all ducting accessories for complete ducting installation.		Item	
6/4/22	Lower Ground Level Ducting System Return Air Grilles.		Item	
6/4/23	Lower Ground Level Ducting System Return Air Motorized Dampers.		Item	
6/4/24	Lower Ground Level Ducting System VAV Reheat Diffusers complete with controls.		Item	
6/4/25	Lower Ground Level Ducting System Jet Nozzles		Item	
6/4/26	Control Room Ducted Fan Coil Unit with Cooling Capacity at 13.4kW	No	1	
6/4/27	Server Room Under Ceiling Unit with Cooling Capacity at 3.4kW	No	2	
<u>UPPER GROUND FLOOR</u>				
6/4/28	Fresh air Intake Air Handling Unit at 10 000L/s, Cooling Capacity of 89kW, complete with HEPA Primary and Secondary Filters at 99.7% performance, installation shall include all necessary accessories to complete installation.	No	1	
6/4/29	Fresh air Intake Air Handling Unit at 7500L/s, Cooling Capacity of 66kW, complete with HEPA Primary and Secondary Filters at 99.7% performance, installation shall include all necessary accessories to complete installation.	No	1	
6/4/30	Upper Ground Level Air Handling Units Controls i.e., System Piping including Insulation, Electronics and Electric controls.		Item	
6/4/31	Upper Ground Level Air Handling Units Chilled Water Valves		Item	
Carried Forward				R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 4 HVAC INSTALLATION				

**DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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ADDENDUM 1**

Brought Forward			R
6/4/32	Upper Ground Level Air Handling Units Insulated Ducting System including all bends, Tee and all ducting accessories for complete ducting installation.	Item	
6/4/33	Upper Ground Level Ducting System Return Air Grilles.	Item	
6/4/34	Upper Ground Level Ducting System Return Air Motorized Dampers.	Item	
6/4/35	Upper Ground Level Ducting System VAV Reheat Diffusers complete with controls.	Item	
6/4/36	Upper Ground Level Ducting System Jet Nozzles	Item	
<u>FIRST FLOOR OFFICES</u>			
6/4/37	Fresh air Intake Air Handling Unit at 7700L/s, Cooling Capacity of 70kW, complete with HEPA Primary and Secondary Filters at 99.7% performance, installation shall include all necessary accessories to complete installation.	No	1
6/4/38	Fresh air Intake Air Handling Unit at 9000L/s, Cooling Capacity of 83kW, complete with HEPA Primary and Secondary Filters at 99.7% performance, installation shall include all necessary accessories to complete installation.	No	1
6/4/39	First Floor Offices Air Handling Units Controls i.e., System Piping including Insulation, Electronics and Electric controls.	Item	
6/4/40	First Floor Offices Air Handling Units Chilled Water Valves	Item	
6/4/41	First Floor Offices Air Handling Units Insulated Ducting System including all bends, Tee and all ducting accessories for complete ducting installation.	Item	
6/4/42	First Floor Offices Ducting System Return Air Grilles.	Item	
Carried Forward			R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 4 HVAC INSTALLATION			

**DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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ADDENDUM 1**

Brought Forward			R
6/4/43	First Floor Offices Ducting System Return Air Motorized Dampers.	Item	
6/4/44	First Floor Offices Ducting System VAV Reheat Diffusers complete with controls.	Item	
6/4/45	First Floor Offices Ducting System Jet Nozzles	Item	
<u>SECOND FLOOR OFFICES</u>			
6/4/46	Fresh air Intake Air Handling Unit at 5500L/s, Cooling Capacity of 61kW, complete with HEPA Primary and Secondary Filters at 99.7% performance, installation shall include all necessary accessories to complete installation.	No	1
6/4/47	Fresh air Intake Air Handling Unit at 4500L/s, Cooling Capacity of 47kW, complete with HEPA Primary and Secondary Filters at 99.7% performance, installation shall include all necessary accessories to complete installation.	No	1
6/4/48	Second Floor Offices Air Handling Units Controls i.e., System Piping including Insulation, Electronics and Electric controls.	Item	
6/4/49	Second Floor Offices Air Handling Units Chilled Water Valves	Item	
6/4/50	Second Floor Offices Air Handling Units Insulated Ducting System including all bends, Tee and all ducting accessories for complete ducting installation.	Item	
6/4/51	Second Floor Offices Ducting System Return Air Grilles.	Item	
<u>Second Floor Offices Ducting System Return Air Motorized Dampers.</u>			
6/4/52	Second Floor Offices Ducting System VAV Reheat Diffusers complete with controls.	Item	
Carried Forward			R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 4 HVAC INSTALLATION			

**DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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Brought Forward			R
6/4/53	Second Floor Offices Ducting System Jet Nozzles	Item	
<u>VENTILATION SYSTEM</u>			
6/4/54	Toilet Extract Disk Valves	Item	
6/4/55	Toilet Extraction Ducting System complete with all accessories	Item	
6/4/56	Toilet Extraction Fans complete with Two(2) off Sound Attenuators and all accessories to complete installation	Item	
6/4/57	Toilet Extraction Weather Louvres	Item	
6/4/58	Outside Air Motorised Economy Dampers	Item	
6/4/59	Outside Air Weather Louvres	Item	
6/4/60	Smoke Extractor's System Fans	Item	
6/4/61	Smoke Extractor's Weather Louvres	Item	
<u>Main Duct Pressure Sensors for Air Handling Units(AHU) including Pressure Indicating Meter:</u>			
6/4/62	AHU-1, AC-01 flow rate of 2700L/s at 41kW Capacity	No 1	
6/4/63	AHU-2, AC-02 flow rate of 5300L/s at 97kW Capacity	No 1	
6/4/64	AHU-3, AC-03 flow rate of 8700L/s at 76kW Capacity	No 1	
6/4/65	AHU-4, AC-0B flow rate of 10 000L/s at 89kW Capacity	No 1	
6/4/66	AHU-5, AC-0A flow rate of 7500L/s at 66kW Capacity	No 1	
6/4/67	AHU-6, AC-05 flow rate of 7700L/s at 70kW Capacity	No 1	
6/4/68	AHU-7, AC-06 flow rate of 9000L/s at 83kW Capacity	No 1	
6/4/69	AHU-8, AC-07 flow rate of 5500L/s at 47kW Capacity	No 1	
Carried Forward			R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 4 HVAC INSTALLATION			

DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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 ADDENDUM 1

Brought Forward				R
6/4/70	AHU-9, AC-08 flow rate of 4500L/s at 61kW Capacity	No	1	
<u>INTEGRATING AIR CONDITIONING TO FIRE SYSTEMS</u>				
6/4/71	Integrating air conditioning and ventilation system to Fire Detection system, including all the necessary equipment		Item	
<u>ELECTRICAL WORK</u>				
6/4/72	Electrical installation and wiring, etc., complete for Air Handling Units, Fan-coil units, fans, Pumps, Fans and Chiller Units, including local starter/isolator switches supplied and installed complete.		Item	
6/4/73	Condensate Drainage System		Item	
<u>EQUIPMENT HANDLING</u>				
6/4/74	Supply and erection of Scaffolding and Crane hire for HVAC equipment		Item	
<u>PROJECT ENGINEERING, MANAGEMENT AND QUALITY CONTROL</u>				
6/4/75	Testing, balancing, commissioning & handover of Heating, Ventilation and Air Conditioning System including compilation of commissioning data manual to be submitted to the Engineer for approval.		Item	
6/4/76	Operation and Maintenance Instruction Manuals	No	4	
6/4/77	User Training	Hrs	30.00	
6/4/78	Sets of 'as built' drawings (including 1 cd)	No	4	
6/4/79	12 month free maintenance and guarantee		Item	
6/4/80	Four(4) Years extended warranty on Chiller and Air Handling Units		Item	
6/4/81	Provision for Site Establishment		Item	
Carried Forward				R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 4 HVAC INSTALLATION				

DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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ADDENDUM 1

	Brought Forward		R	
6/4/82	Provision for Site Administration	Item		
6/4/83	Provision for Health and Safety Requirements	Item		
6/4/84	Provision of construction guarantee	Item		
6/4/85	Any other items required for the successful completion of the work but not included in this bill of quantities and drawing. Please specify:		SUM	
Carried Forward to Summary of Section No. 6			R	
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 4 HVAC INSTALLATION				

DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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 ADDENDUM 1

Item No		Quantity	Rate	Amount
	<u>SECTION 6</u>			
	<u>BILL NO. 5</u>			
	<u>BACKGROUND MUSIC & BOARDROOM AV CONTROLLER</u>			
	<u>BACKGROUND MUSIC & BOARDROOM AV CONTROLLER</u>			
6/5/1	Digital Signal/Matrix Processor (12 in/8 out)	Item		
6/5/2	Remote Control Keypad c/w switch and volume control	Item		
6/5/3	CD player c/w iPod dock	Item		
6/5/4	300 W , 2 Channel Analogue Amplifier	Item		
6/5/5	300 W , 4 Channel Analogue Amplifier	Item		
6/5/6	1500 W Bridged , 2 Channel Power Amplifier	Item		
6/5/7	SPEAKER 6 W, 4 inch ceiling speaker; tappings at 70 V/100 V	Item		
6/5/8	40 W, 4 inch ceiling speaker with 130° conical dispersion tappings at 70 V/100 V	Item		
6/5/9	80 W, 10 inch ceiling sub-woofer, tapping at 100 V	Item		
	<u>BOARDROOM AV</u>			
6/5/10	HDMI Audio de-embedder c/w mounting bracket and power cable	Item		
6/5/11	Enclosed anodized floor box c/w flip top plate, 2 x power socket slots, HDMI insert, pass through plate and blank plates.	Item		
6/5/12	5500-Lumen, variable throw ratio, ANSI 2000:1 WXGA, HDMI input LCD projector c/w ceiling bracket	Item		
	Carried Forward		R	
	Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 5 BACKGROUND MUSIC INSTALLATION			

**DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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ADDENDUM 1**

Brought Forward			R
6/5/13	Electric motorised tension projector screen (16:10) 3.04x2.43 c/w remote and ceiling bracket	Item	
6/5/14	22m flexible HDMI cable	Item	
6/5/15	2m extension HDMI lead	Item	
6/5/16	15U Floor rack	Item	
6/5/17	3KVA Rack mount UPS	Item	
6/5/18	ACCESSORIES Wireless microphone unit c/w charging unit, docking station and interface to speakers	Item	
6/5/19	24 Port, PoE Ethernet switch	Item	
6/5/20	42U rack c/w cooling fan, power supply and wire management unit	Item	
6/5/21	Speaker and audio cabling	m	1,980
6/5/22	3KVA Rack mount UPS	Item	
<u>PROJECT ENGINEERING, MANAGEMENT AND QUALITY CONTROL</u>			
6/5/23	Sundries		SUM
6/5/24	Provisional sum for conference room automation		SUM
6/5/25	Installation Labour		SUM
6/5/26	Guarantee for 12 months		SUM
6/5/27	Site Supervision		SUM
6/5/28	Testing & commissioning		SUM
6/5/29	As built drawings	Item	
Carried Forward			R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 5 BACKGROUND MUSIC INSTALLATION			

DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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ADDENDUM 1

	Brought Forward		R	
6/5/30	Maintenance & operation manuals	Item		
6/5/31	Training of operators		SUM	
Carried Forward to Summary of Section No. 6				R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 5 BACKGROUND MUSIC INSTALLATION				

DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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Item No		Quantity	Rate	Amount
	<u>SECTION 6</u>			
	<u>BILL NO. 6</u>			
	<u>PABX INSTALLATION</u>			
	<u>PABX</u>			
6/6/1	PABX VOIP PABX Headend	No	1	
	<u>PABX Installation</u>			
6/6/2	Converged Bundle complete with 1 CX Controller, 1 4 Port BRI Card, 1 SMB Base Software Package (Including 1 Digital Link License; 16 Standard User Licenses; 16 Voicemail Licenses; 2 SIP Trunk Licenses), 16 Additional Standard User Licenses, 16 Additional Voicemail Licenses, 6 Additional SIP Trunk Licenses, 6 Handsets, 1 24 Port 10/100/1000 L2 and PoE Switch			SUM
6/6/3	Voice Bus License - Standard User	No	9	
6/6/4	MCD Mailbox license	No	9	
6/6/5	Voice Business License - SIP Trunk x1	No	2	
6/6/6	Voice Business License -T38 Channel x4	No	1	
6/6/7	Console (SMB Pack Only)	No	1	
6/6/8	IP Phone	No	18	
6/6/9	Standard Software Assurance Voice Small Business Package	No	1	
6/6/10	Standard Software Assurance Voice Business User	No	25	
6/6/11	Power cord - C13 10A 250V	No	1	
6/6/12	Power cord - C7 2.5A 250V	No	1	
	Carried Forward			R
	Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 6 PABX INSTALLATION			

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 ADDENDUM 1

Brought Forward		R
<u>General - PABX Installation</u>		
6/6/13	Sundries	SUM
6/6/14	Provisional sum for network Integration	SUM
6/6/15	Installation Labour	SUM
<u>IT HARDWARE</u>		
<u>IT Hardware</u>		
6/6/16	24P Mobility Access Switch with 24 10/100/1000BASE-T IEEE 802.3af PoE/802.3at PoE+ ports plus 4 GbE SFP (optics ordered separately). Integrated AC power supply. Support and license(1 Year)	No 15
6/6/17	Stacking Kit	No 1
6/6/18	WIRELESS ACCESS POINT (802.11ABGN 2X2:2; DUAL RADIO, INTEGRATED ANTENNAS) Support and license(1 Year)	No 20
6/6/19	Mounting brackets	No 20
6/6/20	24F Mobility Access Switch with 24 GbE SFP ports (optics ordered separately) and optional uplink module slot (uplink module ordered separately). Includes 350W AC power supply. Support and license(1 Year)	No 1
6/6/21	1000BASE-SX SFP; 850nm pluggable GbE optic; LC connector; up to 300 meters over multi-mode fiber (Type OM2) Support and license(1 Year)	No 30
<u>General - IT Hardware</u>		
6/6/22	Sundries	SUM
6/6/23	Provisional Sum for LAN configuration	SUM
6/6/24	Installation Labour	SUM
Carried Forward		R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 6 PABX INSTALLATION		

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Brought Forward				R
<u>PROJECT ENGINEERING, MANAGEMENT AND QUALITY CONTROL</u>				
6/6/25	Sundries			SUM
6/6/26	Guarantee for 12 months			SUM
6/6/27	Commissioning and reports as per CIBSE standards every 3 months for a period of 1 year and re-commissioning of entire system as per CIBSE standard after 1 year			SUM
6/6/28	Site Supervision			SUM
6/6/29	Testing & commissioning			SUM
6/6/30	As built drawings	No	3	
6/6/31	Maintenance & operation manuals	No	3	
6/6/32	Training of operators			SUM
6/6/33	Labelling & numbering			SUM
Carried Forward to Summary of Section No. 6				R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 6 PABX INSTALLATION				

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Item No		Quantity	Rate	Amount
	<u>SECTION 6</u>			
	<u>BILL NO. 7</u>			
	<u>SECURITY INSTALLATION</u>			
	<u>CCTV INSTALLATION</u>			
	<u>CCTV CONTROLLER</u>			
6/7/1	Rack mount video surveillance server (NVR)	Item		
6/7/2	Complete Storage Solution (15 TB)	Item		
6/7/3	Workstation with dual display c/w software, licensing and user interface	Item		
6/7/4	24" monitor - Widescreen Ultrasharp 1920x1200 (VGA, DVI, DP, HDMI)	Item		
6/7/5	IP channel expansion licences	Item		
6/7/6	Quad display videowall workstation monitoring c/w software, licensing and user interface	Item		
6/7/7	42" Security WSXGA LCD Screens, Brightness 300cd, Contrast Ratio 700:1, 5ms Response Time (GTG), 170/160 View Angle (Typical), TCO95, VGA 15-Pin D-Sub/24-Pin DVI- (Thin Bezel)	Item		
6/7/8	Wall Mount Bracket	Item		
6/7/9	Access Control Integration (Access events (Bio-metric finger prints/card swipes etc.), Input events (fire alarms, door forced, door open too long etc.), Alarms. Actions include (optional): Trigger relay, Trigger alarm, Reset controller)	Item		
	Carried Forward		R	
	Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 7 SECURITY INSTALLATION			

**DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
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Brought Forward			R
<u>CAMERAS</u>			
6/7/10	Indoor HD Day/Night IP Camera (1MP; 3-9mm vari-focus Day/night)	Item	
6/7/11	Indoor HD Day/Night IP Camera (2MP, 2.8mm wide angle lens, day/night)	Item	
6/7/12	Day/night Outdoor IP PTZ camera c/w mounting and power supply	Item	
6/7/13	Outdoor HD Day/Night IP Camera c/w lens, cable managed housing and outdoor bracket (2MP; 4.7-85mm long range lense)	Item	
6/7/14	Basement/Bullet Camera HD Day/night IR (2MP; IR Bullet Cameras, LPR)	Item	
6/7/15	Single Port POE PLUS Injector	Item	
6/7/16	Single port 10/100BaseT; RJ45; ethernet surge arrestor	Item	
<u>ACCESSORIES</u>			
6/7/17	43U rack 600 X 100 deep c/w 4 way fan unit and 10 way power duct	Item	
6/7/18	Camera mounting pole	Item	
6/7/19	3KVA Rack Mount UPS	Item	
6/7/20	Cabling	m	2,800
<u>GENERAL</u>			
6/7/21	Sundries		SUM
6/7/22	Provisional Sum for control room fitout		SUM
6/7/23	Installation Labour		SUM
<u>ACCESS CONTROL</u>			
Carried Forward			R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 7 SECURITY INSTALLATION			

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Brought Forward			R
<u>CONTROLLER</u>			
6/7/24	PC c/w software and USB camera	Item	
6/7/25	Host Ethernet controller c/w battery backup (up to 32 anti-passback doors)	Item	
6/7/26	Registration interface	Item	
6/7/27	USB registration reader (125 kHz + 13.56 MHz)	Item	
6/7/28	Door Controller c/w battery backup	Item	
6/7/29	Software integration license (to CCTV system)	Item	
<u>READERS</u>			
6/7/30	Biometric Finger print readers	Item	
<u>ACCESSORIES</u>			
6/7/31	Magnetic lock with z-bracket	Item	
6/7/32	Door Closer	Item	
6/7/33	Green break glass unit	Item	
6/7/34	Magnetic Switch	Item	
6/7/35	16 Channel input terminal	Item	
6/7/36	16 Channel output terminal	Item	
6/7/37	Slim line credit card tags	Item	
6/7/38	Intercom system - 1 X 2 button desktop handsets with 4 X 2 button station	Item	
6/7/39	Gooseneck c/w biometric finger print reader/card reader housing and camera mount	Item	
Carried Forward			R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 7 SECURITY INSTALLATION			

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Brought Forward			R
6/7/40	4.5m automated booms	Item	
6/7/41	43U rack 600 X 100 deep c/w 4 way fan unit and 10 way power duct	Item	
6/7/42	Cabling	m	1,350
6/7/43	3KVA Rack Mount UPS	Item	
<u>GENERAL</u>			
6/7/44	Sundries		SUM
6/7/45	Integration Provisional Sum		SUM
6/7/46	Installation Labour		SUM
<u>INTRUDER DETECTION</u>			
<u>CONTROLLER</u>			
6/7/47	Controller Intruder panel c/w PSU and battery	Item	
6/7/48	8 zone expander board c/w housing	Item	
6/7/49	LCD keypad	Item	
6/7/50	Transformer with surge filter	Item	
6/7/51	Battery	Item	
6/7/52	Charger module	Item	
6/7/53	Door magnetic switch - recessed	Item	
6/7/54	PIR detector – wide angle	Item	
6/7/55	Strobe light	Item	
6/7/56	Siren	Item	
Carried Forward			R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 7 SECURITY INSTALLATION			

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	Brought Forward		R	
6/7/57	Panic Button	Item		
6/7/58	Remote control	Item		
6/7/59	Cabling	m	1,500	
6/7/60	Link to armed response	Item		
	<u>GENERAL</u>			
6/7/61	Sundries		SUM	
6/7/62	Installation Labour		SUM	
	<u>PROJECT ENGINEERING, MANAGEMENT AND QUALITY CONTROL</u>			
6/7/63	Sundries		SUM	
6/7/64	Guarantee for 12 months		SUM	
6/7/65	Site Supervision		SUM	
6/7/66	Testing & commissioning		SUM	
6/7/67	As built drawings	Item		
6/7/68	Maintenance & operation manuals	Item		
	Carried Forward to Summary of Section No. 6			R
	Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 7 SECURITY INSTALLATION			

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Item No		Quantity	Rate	Amount
	<u>SECTION 6</u>			
	<u>BILL NO. 8</u>			
	<u>STRUCTURED CABLING INSTALLATION</u>			
	<u>STRUCTURED CABLING</u>			
6/8/1	CAT6 UTP 4 PAIRS	m	11,200	
6/8/2	CAT6 UTP RJ45 SMK BOX	No	210	
6/8/3	CAT6 UTP 1M PATCH CORD	No	210	
6/8/4	CAT6 UTP 3M PATCH CORD	No	210	
6/8/5	CAT6 UTP 24 PORT ASSEMBLED PATCH PANEL 1U	No	18	
6/8/6	BRUSH PANEL EXTENDED BASE	No	18	
6/8/7	43U 600MM X 1000MM CABINET COMPLETE	No	5	
6/8/8	PLINTH	No	5	
6/8/9	10 WAY POWER RAIL	No	5	
6/8/10	300MM CABLE TRAY	No	5	
6/8/11	GLAND PANELS 1000 BRUSH	No	5	
6/8/12	GLAND PANELS 1000 BLANK	No	5	
6/8/13	SET OF 2 ADDITIONAL 19" UPRIGHTS	No	10	
6/8/14	FAN TRAY 4 FANS FITTED 1000	No	5	
6/8/15	FIBRE OPTIC CABLE OM3 EHD DUCT 12 CORE	m	800	
6/8/16	FIBRE OPTIC PANEL LC DUPLEX 24 PORT	No	7	
	Carried Forward			R
	Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 8 STRUCTURED CABLING			

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Brought Forward			R
6/8/17	FIBRE OPTIC LEAD OM3 LC-LC 2m	No	60
6/8/18	FIBRE OPTIC PIGTAIL OM3 LC UNJ 1m	No	120
6/8/19	FIBRE OPTIC MIDCOUPLER LC DUPLEX	No	60
6/8/20	FIBRE WARNING LABEL	No	100
6/8/21	HEATSHRINK SPLICE PROTECTORS	No	120
6/8/22	MULTIMODE FIBRE SPLICE & OTDR	No	120
6/8/23	25 PORT VOICE PATCH PANEL	No	5
6/8/24	HINGED LABEL HOLDERS 10 PAIR	No	9
6/8/25	FIXED LABEL HOLDERS 10 PAIR	No	5
6/8/26	PROFILE LABEL HOLDER 10 PAIR	No	5
6/8/27	DISCONNECT MODULE 10 PAIR	No	9
6/8/28	33AY BMF FRAME COMPLETE	No	1
6/8/29	TELKOM MOUNTING BOARD	No	1
6/8/30	JUMPER WIRE	No	1
6/8/31	TELEPHONE CABLE INDOOR 25P	m	950
<u>GENERAL</u>			
6/8/32	SUNDRY ITEMS NOT ITEMISED ELSEWHERE		SUM
6/8/33	PROVISIONAL SUM FOR INTEGRATION OF IP SERVICES		SUM
6/8/34	INSTALLATION LABOUR		SUM
Carried Forward			R
Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 8 STRUCTURED CABLING			

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 BASE BUILD CONTRACT
 PROVISIONAL BILLS OF QUANTITIES
 ADDENDUM 1

	Brought Forward			R
	<u>PROJECT ENGINEERING, MANAGEMENT AND QUALITY CONTROL</u>			
6/8/35	Guarantee for 12 months			SUM
6/8/36	Commissioning and reports as per CIBSE standards every 3 months for a period of 1 year and re-commissioning of entire system as per CIBSE standard after 1 year			SUM
6/8/37	Site Supervision			SUM
6/8/38	Testing & commissioning			SUM
6/8/39	Project Management			SUM
6/8/40	As built drawings	No	3	
6/8/41	Maintenance & operation manuals	No	3	
6/8/42	Training of operators			SUM
6/8/43	Labelling & numbering			SUM
	Carried Forward to Summary of Section No. 6			R
	Section No. 6 ADDENDUM 1: ENGINEERING SERVICES INSTALLATI Bill No. 8 STRUCTURED CABLING			

DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
 BASE BUILD CONTRACT
 PROVISIONAL BILLS OF QUANTITIES
 ADDENDUM 1

Section No. 6				
ADDENDUM 1: ENGINEERING SERVICES INSTALLATIONS				
SECTION SUMMARY - ADDENDUM 1: ENGINEERING SERVICES INSTALLATIONS				
Bill No		Page No		Amount
6/1	ELECTRICAL INSTALLATION	282		
6/2	FIRE DETECTION INSTALLATION	286		
6/3	AUTOMATIC SPRINKLER & FIRE PROTECTION INSTALLATION	289		
6/4	HVAC INSTALLATION	297		
6/5	BACKGROUND MUSIC INSTALLATION	300		
6/6	PABX INSTALLATION	303		
6/7	SECURITY INSTALLATION	308		
6/8	STRUCTURED CABLING	311		
Carried to Final Summary				R
Section No. 6				
ADDENDUM 1: ENGINEERING SERVICES INSTALLATIONS				

**DEVELOPMENT OF THE CONSTITUTION HILL VISITORS CENTRE
BASE BUILD CONTRACT
PROVISIONAL BILLS OF QUANTITIES
ADDENDUM 1**

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	PRELIMINARIES	173	
2	MAIN BUILDING	219	
3	PROVISIONAL SUMS	222	
4	ADDENDUM 1: MAIN BUILDING	268	
5	ADDENDUM 1: PROVISIONAL SUMS	270	
6	ADDENDUM 1: ENGINEERING SERVICES INSTALLATIONS	312	
	Sub Total		R
	<u>ESCALATION</u>		
	Provide for 4% CPAP to be used at the discretion of the Principal Agent and which will be measured and valued in accordance with clause 32 of the Principal Building Agreement or deducted in whole or in part if not required		R
	Sub Total		R
	<u>CONTINGENCIES</u>		
	Provide for 5% for contingencies to be used at the discretion of the Principal Agent and which will be measured and valued in accordance with clause 32 of the Principal Building Agreement or deducted in whole or in part if not required		R
	Sub-Total		R
	<u>Value Added Tax</u>		
	Allow 14% of Sub-Total		R
	Carried to Form of Tender		R