

**PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL**

Item No		Quantity	Amount
	<p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>STANDARD SPECIFICATION</u></p> <p>Standard Specification of materials and workmanship for Building Contracts dated April 1999 as published by the Botswana Government shall be deemed to be incorporated in these bills of quantities and no claim arising from brevity of description of the items fully described in the said Model Preambles will be entertained.</p> <p>Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provision of the said Standard Specification.</p> <p>The contractor's prices for all items throughout these bills of quantities must take into account of and for all of the obligations, requirements and specifications given in the said Standard Specification and in any supplementary preambles</p> <p><u>STANDARD SYSTEM OF MEASURING BUILDING WORK</u></p> <p>The system of measuring building work applicable to the works is the Standard System of Measuring Building Work 2013 Sixth Edition (Second Revision) as published by the ASSOCIATION OF SOUTH AFRICAN QUANTITY SURVEYORS.</p> <p style="text-align: center;">-----</p>		
	Carried Forward	P	
	Section No. 1 Bill No. 1 Preliminaries		

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	Brought Forward	P	
	The Contractor shall allow for his own preliminary and/or overhead costs as required for the execution of the contract such as the following and any other he may wish to add.		
1	Provide for setting out of the works	Item	
2	Project Manager	Item	
3	Site Foreman	Item	
4	Site Agent	Item	
5	SHE Officer	Item	
6	Foreman	Item	
7	Plant	Item	
8	Sheds	Item	
9	Site Perimeter hoarding/fencing	Item	
10	Insurance	Item	
11	Water	Item	
12	Electricity and Lighting	Item	
13	Other Costs	Item	
	Carried to Final Summary	P	
	Section No. 1 Bill No. 1 Preliminaries		

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 1</u>			
	<u>SUBSTRUCTURE</u>			
	<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>			
	<u>Excavate in earth not exceeding 2m deep below natural or reduced ground level for:</u>			
1	Thickening under surface beds	m3	9	
2	Surface trenches and holes	m3	529	
	<u>Extra over excavations in earth for trenches, holes, etc for excavating in:</u>			
3	Hard material	m3	53	
4	Rock	m3	26	
	<u>Extra over all excavations for carting away:</u>			
5	Surplus material from excavations and/or stockpiles on site to a dumping site to be located by the Contractor	m3	289	
	<u>Risk of collapse of excavations:</u>			
6	Sides of trenches and holes not exceeding 1,5m deep.	m2	965	
	<u>Keeping excavations free of water:</u>			
7	Keeping excavations free of all water other than subterranean water		Item	
	Carried Forward			P
	Section No. 2 Bill No. 1 Substructure			

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Brought Forward			P
<u>FILLING:</u>			
<u>Note: All filling whether obtained from the stockpiles or an outside source must be approved by the Structural/Civil Engineer.</u>			
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, spread, levelled, watered, consolidated and compacted to 90% Modified AASHTO dry density in layers not exceeding 150mm:</u>			
8	Backfilling to trenches, holes, etc	m3	240
<u>Imported G5 filling supplied by the contractor, compacted to 95% Mod AASTHO density</u>			
9	Under surface beds to make up levels	m3	234
10	Under pavings	m2	161
11	Under footings, etc	m3	159
<u>Compaction of surfaces</u>			
12	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density.	m2	810
<u>Prescribed density tests on filling:</u>			
13	"Field Density" test including "Optimum Moisture Content" (four readings per test).	No	65
<u>SOIL POISONING</u>			
<u>Soil insecticide in accordance with SANS 5859</u>			
14	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	810
15	To bottoms and sides of trenches etc.	m2	1,318
Carried Forward			P
Section No. 2 Bill No. 1 Substructure			

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Brought Forward			P
<u>CONCRETE</u>			
<u>MASS CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>15 Mpa/19mm Concrete</u>			
16	Blinding under foundations (50mm thick)	m3	12
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>25Mpa/19mm Concrete</u>			
17	Strip footings	m3	59
<u>30Mpa/19mm Concrete</u>			
18	Column bases	m3	0.5
<u>TEST BLOCKS</u>			
<u>Test blocks:</u>			
19	Making and testing set of six 150 x 150 x 150mm concrete strength test cubes.	Sets	34
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>			
<u>Note: Formwork to sides of strip footings, etc is to be finally measured and paid for only where specifically required by the appointed engineer</u>			
<u>Rough formwork to:</u>			
20	Sides of footings not exceeding 300mm high	m	640
<u>MOVEMENT JOINTS, ETC.</u>			
<u>Expanded polystyrene in expansion joint</u>			
21	12mm Thick in expansion joint not exceeding 300mm high built in vertically between brickwork and edge of surface bed.	m	396
Carried Forward			P
Section No. 2 Bill No. 1 Substructure			

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Brought Forward			P
<u>REINFORCEMENT</u>			
<u>Fabric reinforcement:</u>			
22	Type 311 fabric reinforcement in ground beams; etc	m2	24
23	Type 617 fabric reinforcement in strip footings; etc	m2	235
<u>BRICKWORK IN FOUNDATIONS</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar:</u>			
24	Mass brickwork	m3	2
25	One brick wall	m2	367
26	One and a half brick walls	m2	42
<u>Brick reinforcement to walls and lintels well lapped at all angles and passings and built into brickwork including all cuttings and waste:</u>			
27	Brick reinforcement 70mm wide to half brick walls.	m	495
28	Brick reinforcement 150mm wide to one brick or 270mm hollow walls.	m	4,779
<u>FACE BRICKWORK</u>			
<u>Approved FBS class "Nkwe Satin" clay face bricks size 220 x 100 x 70mm manufactured by Makoro Bricks or equal approved, laid in class 3 cement mortar and pointed with ruled horizontal and vertical joints as the work proceeds:</u>			
29	Rectangular shaped brick Piers	m3	2
30	Extra over ordinary brickwork for facing in stretcher bond	m2	19
31	Extra over brickwork for brick-on-end soldier course bands 1 course high	m	29
Carried Forward			P
Section No. 2 Bill No. 1 Substructure			

	Brought Forward			P
	<p><u>EXTERNAL PLASTER</u></p> <p><u>One coat (1:3) cement plaster on brickwork or concrete finished with a wood float:</u></p>			
32	12mm Thick on walls	m2	140	
	<p><u>SPECIALISED PLASTER WALL COATINGS</u></p> <p>All specialised plaster type wall coatings are to be executed in strict accordance with the manufacturer's instructions</p> <p><u>"Gamma Zenith" Gizelle Spray (or equal approved) from marble chips bound by pure acrylic resins, plasticisers, other additives, etc., properly stirred, mixed and sprayed onto the surface to a thickness of 2-3mm by means of low pressure gun all in accordance with suppliers directions and guidelines:</u></p>			
33	On exterior wall in panels, including taping, etc	m2	140	
	<p>Carried Forward to Summary of Section No. 2</p>			P
	<p>Section No. 2 Bill No. 1 Substructure</p>			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>"No fines" concrete</u>			
1	Drainage channels	m3	7	
	<u>25Mpa/19mm Concrete</u>			
2	Thickening to surface beds	m3	9	
3	Surface beds cast on waterproofing	m3	86	
4	Ramps	m3	7	
5	Steps	m3	1	
	<u>REINFORCED CONCRETE</u>			
	<u>30Mpa/19mm Concrete in:</u>			
6	Ring beams	m3	10	
7	Isolated beams	m3	16	
	<u>TEST BLOCKS</u>			
	<u>Test blocks:</u>			
8	Making and testing set of six 150 x 150 x 150mm concrete strength test cubes.	Sets	14	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
9	Surface beds, slabs, etc	m2	612	
	Carried Forward			P
	Section No. 2 Bill No. 2 Concrete, Formwork & Reinforcement			

**PROPOSED REHABILITATION CENTRE AT PLOT 37233
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Brought Forward			P
<u>Finishing top surfaces of concrete to an evenly ribbed non-slip surface</u>			
10	Ramps to falls	m2	31
11	Steps	m2	6
<u>15 MPa non-shrink grout</u>			
12	Bedding approximately 50mm thick under 400 x 400mm base plate	No	6
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>			
<u>Rough formwork to sides:</u>			
13	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	84
<u>Rough formwork to beams:</u>			
14	Sides and soffits of isolated beams propped to a height not exceeding 3.5m above propping level	m2	181
<u>Rough formwork to ring beams:</u>			
15	Sides and soffits of ring beams propped to a height not exceeding 3.5m	m2	228
<u>REINFORCEMENT</u>			
<u>Bar reinforcement</u>			
16	All rebar	t	5.78
<u>Fabric reinforcement:</u>			
17	Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	625
Carried Forward to Summary of Section No. 2			P
Section No. 2			
Bill No. 2			
Concrete, Formwork & Reinforcement			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 3</u>			
	<u>PRECAST CONCRETE</u>			
	<u>LINTOLS, ETC.</u>			
	<u>Precast concrete left rough from the mould including bedding, jointing and pointing:</u>			
1	Precast prestressed concrete lintols, size 106 x 70mm, in lengths not exceeding 3m	m	43	
	<u>PAVING SLABS, ETC.</u>			
	<u>Paving of 500 x 500 x 50mm precast concrete slabs laid on 50mm thick cement-sand dry mix bed:</u>			
2	Paving laid with butt joints	m2	161	
	<u>KERBSTONES, ETC</u>			
	<u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing</u>			
3	100 x 250mm High kerbs (SANS 927 fig 10) with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc	m	174	
	<u>PRECAST CONCRETE COPINGS ETC</u>			
	<u>Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing</u>			
4	306 x 100mm Thick overall copings twice weathered on top to 75mm thick along both edges, with drip groove in bottom along both edges	m	22	
	<u>PRECAST CONCRETE WINDOW SURROUNDS</u>			
	General Notes:			
	Window surrounds are to be checked at delivery for squareness. Surrounds out of square will be rejected			
	Carried Forward			P
	Section No. 2 Bill No. 3 Precast Concrete			

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	Brought Forward			P
	Window surrounds are to be built into brick walls and pointed all round on both sides with 10 x 10mm square recessed joints			
	<u>"Winblok" (or equal approved) modular precast concrete window surround etc finished smooth on exposed surfaces, including bedding, jointing and pointing</u>			
5	600 x 600 x 260mm Type WB66d window surround	No	130	
6	590 x 590 x 30mm Type WG66 wingrid	No	130	
Carried Forward to Summary of Section No. 2				P
Section No. 2				
Bill No. 3				
Precast Concrete				

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 4</u>			
	<u>MASONRY</u>			
	<u>BRICKWORK IN SUPERSTRUCTURE</u>			
	<u>Brickwork of NFP bricks in class II mortar:</u>			
1	Mass brickwork	m3	9	
2	Half brick wall	m2	279	
3	Half brick wall; dwarf wall	m2	18	
4	One brick wall	m2	791	
5	One and half brick wall	m2	53	
	<u>Brick reinforcement to walls and lintels well lapped at all angles and passings and built into brickwork including all cuttings and waste:</u>			
6	Brick reinforcement 70mm wide to half brick walls.	m	1,847	
7	Brick reinforcement 150mm wide to one brick or 270mm hollow walls.	m	3,649	
	<u>FACE BRICKWORK</u>			
	<u>Approved FBS class "Nkwe Satin" clay face bricks size 220 x 100 x 70mm manufactured by Makoro Bricks or equal approved, laid in class 3 cement mortar and pointed with ruled horizontal and vertical joints as the work proceeds:</u>			
8	Rectangular shaped brick Piers	m3	9	
9	Extra over ordinary brickwork for facing in stretcher bond	m2	259	
10	One brick wall built entirely in facing bricks and pointed both sides	m2	25	
11	One and half brick wall built entirely in facing bricks and pointed both sides	m2	12	
	Carried Forward			P
	Section No. 2 Bill No. 4 Masonry			

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	Brought Forward				P
12	Extra over brickwork for brick-on-end soldier course bands 1 course high	m	75		
13	Half brick wall in beam filling and pointed on face	m2	11		
	<u>FACE BRICKWORK COPINGS ETC.</u>				
	<u>Brick-on-edge header course copings, sills, etc. of approved FBX class Terracotta Satin clay face bricks size 222x106x73mm manufactured by Makoro Bricks or equal approved, laid in class 3 cement mortar and pointed with recessed joints on all exposed faces:</u>				
14	Soldier course at door, window head, etc and pointed on face	m	7		
15	"Special" bullnosed brick once throated for drip underneath and pointed on face	m	7		
	Carried Forward to Summary of Section No. 2				P
	Section No. 2				
	Bill No. 4				
	Masonry				

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 5</u>			
	<u>WATERPROOFING</u>			
	<u>DAMPPROOFING OF WALL AND FLOORS</u>			
	<u>250 Micron "Gundle Brickgrip" or other equal approved damp proof course laid horizontally and built into walls, lapped 150mm at all angles and passings (measured net)</u>			
1	Under walls, cills, etc	m2	91	
	<u>DAMPPROOFING OF WALL AND FLOORS</u>			
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>			
2	Under surface beds, etc.	m2	649	
	<u>JOINT SEALANTS</u>			
	<u>"Thioflex 600" polysulphide sealant - gun grade by Fosroc Expandite or similar approved</u>			
3	12 x 20mm in expansion joints between walls.	m	396	
	Carried Forward to Summary of Section No. 2			
	Section No. 2			P
	Bill No. 5			
	Waterproofing			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 6</u></p> <p><u>ROOF CONSTRUCTION, COVERINGS, ETC</u></p> <p><u>ROOF CONSTRUCTION</u></p> <p>Descriptions of roof trusses and bracing shall be deemed to include design and preparation of shop drawings</p> <p>Fully detailed shop drawings of all trusses, etc., indicating sizes, bracing, loading, etc., are to be submitted to the Engineer for approval prior to fabrication.</p> <p>The design shall include for all live loads, wind loads and for dead loads imposed by roof covering, purlins, ceiling etc</p> <p>Trusses by a BOBS approved or other equal and approved manufacturer</p>			
	Carried Forward		P	
	<p>Section No. 2 Bill No. 6 Roof Coverings, etc</p>			

Brought Forward				P
<p><u>The following in double and mono pitch roof trusses with brandering chips with wrought top chord overhang with twice splay cut end or equal, both sides.</u></p> <p><u>Rehabilitation Centre Building</u></p> <p><u>Double pitch type; 22 degrees pitch, including ridge</u></p>				
1	<p>Prefabricated Zinalume coated light gauge steel roof truss including hangers, bearers, wall plates, purlins, bracing, cleats, to BS 449 Part 2 and SABS 935 etc or other equal and approved etc. to cover the whole roof to a double storey building with proper alignment to the verandah, staircase, including necessary adjustment all to the satisfaction of the Architect.</p> <p>Rehabilitation Block approx. 802m² roof area).</p>	Item		
2	Add for profit (if required)			%
3	Allow for the complete erection of the prefabricated roof trusses			%
<p><u>PROFILED METAL SHEETING AND ACCESSORIES</u></p> <p><u>"Klip-Lok 700" Light Industrial (0,58mm) galvanised Z275 spelter with a Globalcoat finish to one side. The profile shall be roll-formed in continuous lengths from certified steel complying with ASTM 446 Grade E (3t) and be fixed to timber in strict accordance with manufacturer's specifications. The profile shall furthermore carry Agreement Certification.</u></p>				
4	Roof coverings with pitches not exceeding 25 degrees fixed by means of KL75 fixing clip on and including "U" spacers resting on timber purlins at 2000mm centres.	m ²	743	
<p><u>Accessories</u></p>				
5	Headwall flashing	m	25	
6	Side wall flashing	m	40	
Carried Forward				P
<p>Section No. 2 Bill No. 6 Roof Coverings, etc</p>				

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	Brought Forward				
7	Counter Flashing	m	65		P
	<u>Aluminium Fascia</u>				
8	Barge fascias on and including timber sub-frames	m	168		
	<u>ROOF AND WALL INSULATION</u>				
	<u>Super Sisalation FR405 light industrial grade reinforced aluminium foil insulation (or equal approved), lapped 150mm at joints</u>				
9	Insulation laid on top of purlins as described	m2	743		
	Carried Forward to Summary of Section No. 2				P
	Section No. 2				
	Bill No. 6				
	Roof Coverings, etc				

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 7</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Joinery</u>			
	Description of hardwood joinery shall be deemed to include pelleting of bolt holes			
	<u>Fixing</u>			
	Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	<u>WINDOW CILLS</u>			
	<u>Post formed solid formica sills; with 12mm thick particleboard on top of 16mm thick MDF base; fixed securely to brickwork; with bullnosed front edge; sill projecting 100mm into room</u>			
1	Internal window cills; 180mm wide	m	27	
	<u>DOORS AND DOOR FRAMES</u>			
	<u>Standard semi-soild core internal quality flush door with masinite veneer, suitable for painting.</u>			
2	Door size 813 x 2032mm high	No	19	
	<u>Purpose-made solid core flush door opening 180 degrees with and including heavy duty floor springs; to SABS 445; with hardwood lipping on all edges; covered on both sides with masonite hardboard; hung to timber frames; complete with weather strips fitted on.</u>			
3	Door; size overall 1000 x 2100mm high	No	9	
	Carried Forward to Summary of Section No. 2			P
	Section No. 2			
	Bill No. 7			
	Carpentry & Joinery			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 8</u>			
	<u>CEILINGS AND PARTITIONS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions:</u>			
	Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.			
	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.			
	<u>SCREWED UP CEILINGS</u>			
	<u>6mm Fibre-cement plain "Nutec" or equal approved ceiling boards with H-profile galvanised steel jointing strips:</u>			
1	Ceilings including standard steel brandering at 600mm centres in one direction only, joined with joiner sections and hung with suspension brackets including standard steel perimeter angles fixed to walls etc	m2	22	
2	Eaves closure board including standard steel brandering at 400mm centres in both directions, joined with joiner sections and hung with suspension brackets including standard steel perimeter angles fixed to walls etc	m2	50	
	<u>NAILED UP CEILINGS</u>			
	<u>6.4mm "Rhinoboard" gypsum plastered ceiling fixed print side up with 32mm galvanised semi-clout nails at 150mm centres with Rhino coverstrips fixed over joints; with 6mm thick lightweight hemihydrate gypsum; all in strict accordance with manufacturer's instructions</u>			
3	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres in both directions on timber soffits	m2	78	
	Carried Forward			P
	Section No. 2 Bill No. 8 Ceilings, Partitions & Access Flooring			

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Brought Forward			P
4	<p><u>Trap door</u></p> <p>600 x 600mm trap door of 32 x 44mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fixed flush with opening</p>	No	5
<u>CORNICES</u>			
<u>"Rhino" gypsum plasterboard cornices:</u>			
5	75mm coved cornice	m	199
<u>SUSPENDED CEILINGS</u>			
<u>"Everite" Thermoclad" or equal approved 1195 x 595 x 6mm Thick Vinyl-clad Fibrecem ceiling boards with 25mm Thick Intergral Polystyrene insulation fixed onto suspended epoxy powder-coated aluminium ceiling T-Grid comprising 38 x 25mm T38 Main Tees and cross Tees and 25 x 19mm standard wall angle complete with 6mm x 34,1 x 1,77mm Hold down clips, 4mm diameter galvanised suspension rods and hooks combined with suspension spring clip and T-Suspension plate</u>			
6	Ceilings suspended not exceeding 1m below light steel trusses	m2	388
<u>INSULATION</u>			
<u>Ceiling insulation; 24kg/m³ mineral wool or fibreglass thermal insulation; laid strictly in accordance with manufacturer's instructions</u>			
7	50mm Thick insulation laid over ceilings	m2	78
Carried Forward to Summary of Section No. 2			P
Section No. 2			
Bill No. 8			
Ceilings, Partitions & Access Flooring			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 9</u>			
	<u>IRONMONGERY</u>			
	<u>SUPPLY AND FIX THE FOLLOWING IRONMONGERY TO SOFT OR HARDWOOD DOORS AND FRAMES AND STEEL OR ALUMINIUM JAMB LININGS</u>			
	<u>HINGES, BOLTS, ETC</u>			
	<u>"Union" or equal approved:</u>			
1	Aluminium Facility Helping Hand indicator bolt - 37651AS	No	3	
	<u>LOCKS</u>			
	<u>Union (or equal approved)</u>			
2	CZ682-24-95; 2-Lever lockset	No	19	
	<u>PUSH PLATES AND KICK PLATES</u>			
	<u>"Union" or equal approved:</u>			
3	AL5066 - 05AS push plate 152 x 152mm	Pairs	13.0	
	<u>SUNDRIES</u>			
4	CZ8731SC' Satin Chrome door stop	No	28	
5	AL8253AS rubber tipped coat hooks	No	9	
	Carried Forward			P
	Section No. 2 Bill No. 9 Ironmongery			

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Brought Forward		P
<u>LETTERS, NAMEPLATES, ETC</u>		
<u>"Union" or equal approved:</u>		
6	AL5066 - 06ASE10 Natural anodised aluminium plate with male indicator	No 3
7	AL5066 - 06ASE11 Natural anodised aluminium plate with female indicator	No 3
8	AL5066 - 06ASE14 Natural anodised aluminium plate with paraplegic indicator	No 3
<u>PELMETS AND CURTAIN TRACKS</u>		
<u>"Kirsch" curtain tracks; Kirton (Pty) Ltd or equal and approved; supply and fix</u>		
9	Double aluminium curtain track; complete with 14No. ref. 9406 or equal and approved nylon track slides, brackets, stopped ends, etc; fixed onto face of brickwork at 400mm centres; plugged and screwed	m 20
<u>BATHROOM FITTINGS</u>		
<u>Franke or equal approved</u>		
10	"Rodan" recessed wall mounted soap dispenser code RODX619E with brushed stainless steel finish fixed to walls including forming recess, complete.	No 6
11	Chronos Range BS605 1,2/1,5mm thick satin finished stainless steel waste bin (Code: 359730), size 362 x 175 x 460mm high, with standard Franke key, plugged and screwed to the wall with stainless steel screws.	No 6
12	Chronos Range, wall mounted toilet brush holder including brush, (Code: BS686), with brushed stainless steel finish, complete.	No 10
Carried Forward		P
Section No. 2 Bill No. 9 Ironmongery		

**PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL**

Brought Forward			P
13	HF2400 HD 1,2/1,5mm thick Grade 304 18/10 stainless steel automatic hands free hand dryer (code: 359961), size 284 x 202 x 248mm deep with 2 vandal proof lock screws and key wrench, plugged and screwed to the wall with stainless steel screws, 200W motor connected to 230/240 volt power supply. With 5 year warranty.	No	8
14	32mm diameter satin finished stainless steel flush valve grab rail (Code: SR1), size 750 x 90mm plugged and screwed to the wall with stainless steel screws.	No	4
15	32mm diameter satin finished stainless steel cistern grab rail (Code: CNTXBR), size 750 x 260 mm plugged and screwed to the wall with stainless steel screws.	No	4
16	32mm diameter satin finished stainless steel cistern side bar grab rail (Code: CNTX70B), size 300 x 300 x 300mm with 2 flanges, plugged and screwed to the wall with stainless steel screws.	No	6
17	32mm diameter satin finished stainless steel straight grab rail (Code: CNTX600), size 95 x 600mm, plugged and screwed to the wall with stainless steel screws.	No	6
18	32mm diameter satin finished stainless steel 90 degrees angle bar grab rail (Code: CNTX21), size 415 x 415 x 95 mm, plugged and screwed to the wall with stainless steel screws.	No	6
<u>"Solid" or equal and approved</u>			
19	19mm Diameter chrome plated towel rail; 600mm long; including end brackets	No	8
20	19mm Diameter chrome plated shower rail; 1800mm long; including end brackets	No	2
<u>KITCHEN CUPBOARDS</u>			
<u>Duracraft (or other approved) kitchen cupboards plugged</u>			
21	Sink unit with one drawer, overall size 1800 x 530 x 875mm high with double end bowl (Code: HSU 1800 /2 SEB)	No	1
Carried Forward			P
Section No. 2 Bill No. 9 Ironmongery			

	Brought Forward		P	
	<u>SHOWER CUBICLE PANELS AND DOORS</u>			
	<u>CrystalTech Black Walk-In Wall Mounted Shower Screen With Smoke Glass Including Arm - CTFS1020 - 2000 as supplied by CTM or equal approved</u>			
22	Size 1800 x 1850mm high	No	2	
	Carried Forward to Summary of Section No. 2			
	Section No. 2			
	Bill No. 9			
	Ironmongery			

PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL

Item No		Quantity	Rate	Amount
	<u>BILL NO. 10</u>			
	<u>STRUCTURAL STEELWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	<u>STEEL COLUMNS AND BEAMS</u>			
	<u>Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete</u>			
1	152 x 152mm x 23kg/m H-section columns	t	1.15	
	<u>Welded beams in single lengths with flat bearer and connection plates, bolted to steel</u>			
2	254 x 146mm x 37kg/m I-section beams	t	0.73	
	<u>STEEL PURLINS, GIRTS, BRACING, ETC</u>			
	<u>Purlins and girts, bolted to steel</u>			
3	150 x 75 x 20 x 2.5mm Thick cold-formed lipped channel purlins	t	0.24	
	Carried Forward			P
	Section No. 2 Bill No. 10 Structural Steelwork			

Brought Forward			P
<u>STEEL GUTTERS AND RAINWATER PIPES</u>			
<u>3mm Welded plate gutters</u>			
4	Box gutters 1050mm girth, 5 times bent along length including necessary collared and sealed expansion joints (inclusive of bearers)	t	0.41
<u>BOLTS, FASTENERS, ETC</u>			
5	High tensile bolts (class 8.8)	t	0.01
6	Anchor assembly consisting of four 10mm diameter L-shaped threaded anchor bolts each 600mm girth, caged together with 50 x 50 x 5mm angle, total length of angle 1600mm	No	6
Carried Forward to Summary of Section No. 2			
Section No. 2			
Bill No. 10			
Structural Steelwork			
			P

PROPOSED REHABILITATION CENTRE AT PLOT 37233
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Item No		Quantity	Rate	Amount
	<u>BILL NO. 11</u>			
	<u>METALWORK</u>			
	<u>SUNDRY STEELWORK</u>			
	<u>Bearers to brick linings, lintels, etc:</u>			
1	200 x 100 x 10mm Angle section bearers built into brickwork over openings	kg	12	
	<u>GALVANISED STEEL FLOORS</u>			
	<u>Floor duct covers</u>			
2	50 x 50 x 5mm Angle section frames with 50 x 100mm flat section bent lugs each 200mm girth welded on at 500mm centres including embedding in concrete	kg	141	
3	Rectagrid Mentis Grating (34kg/m ²) floor covers in 500mm wide panels in suitable lengths, spot welded to framing	m2	19	
	<u>PRESSED METAL DOOR FRAMES</u>			
	<u>1.0mm Double rebated frames suitable for half brick wall; including 2No. 100mm mild steel butt hinges</u>			
4	Door frame size 813 x 2032mm high	No	8	
5	Frame for door size 1000 x 2032mm high	No	8	
	<u>1.0mm Double rebated frames suitable for one brick wall; including 2No. heavy duty steel hinges per leaf; fixing lugs welded on</u>			
6	Frame for door size 813 x 2032mm high	No	11	
7	Frame for door size 1000 x 2032mm high	No	1	
	Carried Forward			P
	Section No. 2 Bill No. 11 Metalwork			

PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL

Brought Forward			P
<u>ALUMINIUM WINDOWS, DOORS, ETC.</u>			
<u>Purpose-made powder coated casement windows and doors, complete with subframes, ironmongery, factory glazed with 4mm thick obscure glass fitted with clip-on gasket seals with lugs plugged and screwed to brickwork, sealing, etc</u>			
8	Window size 600 x 1000mm high overall - (W05)	No	13
<u>Purpose-made powder coated casement windows and doors, complete with subframes, ironmongery, factory glazed with 6.5mm thick laminated safety clear glass fitted with clip-on gasket seals with lugs plugged and screwed to brickwork, sealing, etc</u>			
9	Window size 1200 x 1980mm high overall - (W01)	No	6
10	Window size 1060 x 2950mm high overall - (W02)	No	1
11	Window size 700 x 2950mm high overall - (W03)	No	6
12	Window size 2000 x 2950mm high overall - (W04)	No	1
13	Window size 2335 x 1250mm high overall - (W07)	No	1
14	Window size 3500 x 3150mm high overall - (W08)	No	3
15	Window size 1200 x 1000mm high overall - (W09)	No	1
16	Window size 1200 x 2800mm high overall - (W10)	No	2
17	Window size 6205 x 2150mm high overall - (W06)	No	1
18	Double door size 2100 x 2800mm high overall - (D02)	No	1
19	Double door size 1870 x 2400mm high overall - (D04)	No	1
20	Double door size 1800 x 3450mm high overall - (D05)	No	1
Carried Forward			P
Section No. 2 Bill No. 11 Metalwork			

	Brought Forward				
	<u>CURTAIN WALLS, SHOPFRONTS, ETC</u>				P
	<u>ALUMINIUM SHOPFRONTS</u>				
	<u>Powder coated shopfronts complete with subframes, factory glazed with 6.5mm thick laminated safety clear glass fitted with clip-on gasket seals with lugs plugged and screwed to brickwork, sealing, etc</u>				
21	Purpose made shopfront, 6270 x 2800mm high with one double door 2100 x 2100mm high - (D01)	No	1		
22	Purpose made shopfront, 4070 x 2400mm high with one double door 2100 x 2100mm high - (D03)	No	1		
	Carried Forward to Summary of Section No. 2				P
	Section No. 2				
	Bill No. 11				
	Metalwork				

PROPOSED REHABILITATION CENTRE AT PLOT 37233
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FOR GABORONE CITY COUNCIL

Item No		Quantity	Rate	Amount
	<u>BILL NO. 12</u>			
	<u>PLASTERING</u>			
	<u>SCREEDS</u>			
	<u>1:3 Cement plaster screeds steel trowelled, on concrete:</u>			
1	40mm Thick on floors	m2	12	
	<u>1:4 Cement plaster screeds wood floated, on concrete:</u>			
2	32mm Thick on floors ready to receive non-slip porcelain floor tiles	m2	132	
3	32mm Thick on floors ready to receive porcelain tiles	m2	388	
	<u>INTERNAL PLASTER</u>			
	<u>One coat (1:3) cement plaster on brickwork or concrete finished with a steel float/wood trowel</u>			
4	12mm Thick on walls	m2	1,393	
5	12mm Thick on narrow widths	m2	34	
6	12mm Thick on beams	m2	90	
	Carried Forward			P
	Section No. 2 Bill No. 12 Plastering			

Brought Forward				P
<u>EXTERNAL PLASTER</u>				
<u>One coat (1:3) cement plaster on brickwork or concrete finished with a wood float:</u>				
7	12mm Thick on walls	m2	474	
8	12mm Thick on narrow widths	m2	34	
9	12mm Thick on beams	m2	90	
<u>SPECIALISED PLASTER WALL COATINGS</u>				
All specialised plaster type wall coatings are to be executed in strict accordance with the manufacturer's instructions				
<u>"Gamma Zenith" Gizelle Spray (or equal approved) from marble chips bound by pure acrylic resins, plasticisers, other additives, etc., properly stirred, mixed and sprayed onto the surface to a thickness of 2-3mm by means of low pressure gun all in accordance with suppliers directions and guidelines:</u>				
10	On exterior wall in panels, including taping, etc	m2	492	
<u>CORNER PROTECTORS, DIVIDING STRIPS, ETC.</u>				
<u>Dividing strips, etc.</u>				
11	Flat section brass dividing strip, 32 x 3mm thick; cut to required lengths; in screed between differing floor finishing/dividing bays	m	9	
Carried Forward to Summary of Section No. 2				P
Section No. 2				
Bill No. 12				
Plastering				

PROPOSED REHABILITATION CENTRE AT PLOT 37233
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FOR GABORONE CITY COUNCIL

Item No		Quantity	Rate	Amount
	<u>BILL NO. 13</u>			
	<u>TILING</u>			
	<u>WALL TILING</u>			
	<u>150 x 150 x 5mm Thick white glazed ceramic tiles (PC amount of P150/m²); fixed with 6-8mm straight joints in both directions; with an approved adhesive to plaster (plaster elsewhere measured) and flush pointed with approved tinted grout</u>			
1	On walls in splashbacks	m2	2	
2	On walls.	m2	489	
3	150mm Wide cut tile in window reveals	m	42	
	<u>FLOOR TILING</u>			
	<u>600 x 600 x 8mm Thick Non-Slip Porcelain tiles (PC amount of P200/m²) supply and delivered to site only; fixed with 3mm straight joints in both directions with an approved adhesive to bedding (bedding elsewhere) and flush pointed with approved flexible waterproof tinted grout:</u>			
4	On floors	m2	105	
5	On floors to falls	m2	23	
6	On steps and landings	m2	12	
7	600 x 100 x 8mm Thick; skirting tile cut from 600 x 600 x 8mm thick floor tile; with standard grouting at joints	m	38	
8	175mm high risers to steps	m	16	
	Carried Forward			P
	Section No. 2 Bill No. 13 Tiling			

PROPOSED REHABILITATION CENTRE AT PLOT 37233
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Brought Forward				P
	<u>600 x 600 x 8mm Thick Porcelain tiles (PC amount of P200/m²) supply and delivered to site only; fixed with 3mm straight joints in both directions with an approved adhesive to bedding (bedding elsewhere) and flush pointed with approved flexible waterproof tinted grout:</u>			
9	Floors	m2	388	
10	600 x 100 x 8mm Thick; skirting tile cut from 600 x 600 x 8mm thick floor tile; with standard grouting at joints	m	329	
	<u>Mosaic tiles (PC amount of P500/m² supply and delivered to site only) fixed to screeded floors (screed elsewhere measured) with tile adhesive with 2-3mm joints continuous in both directions and grouted with 2:1 travertine grout and sand mix ratio; excess grout on the surface to be cleaned with water as work proceeds</u>			
11	On floors to falls	m2	4	
	<u>Sundries</u>			
12	150 x 150mm Vitreous china semi-recessed toilet roll holder with spring loaded wooden roller	No	9	
13	150 x 150mm Vitreous china semi-recessed soap dish	No	2	
Carried Forward to Summary of Section No. 2				P
Section No. 2				
Bill No. 13				
Tiling				

PROPOSED REHABILITATION CENTRE AT PLOT 37233
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Item No		Quantity	Rate	Amount
	<u>BILL NO. 14</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	<u>RAINWATER DISPOSAL</u>			
	<u>"Marley Vyndeeep" (or equal approved) uPVC pipes</u>			
1	110mm Diameter rainwater downpipe fixed to brickwork or concrete with brackets.	m	21	
2	Extra over rainwater pipe for eaves offset 600mm projection	No	5	
3	Extra over rainwater pipe for shoe	No	5	
	<u>SANITARY FITTINGS</u>			
	<u>Vaal Sanitaryware (or equal approved) Wash hand basins, etc</u>			
4	455 x 290mm "Vaal Bantam"; (product code 7030); or equal and approved white glazed vitreous china basin; with integrated overflow and chain stay hole; two tap hole configuration; mounted on wall with and including 10mm bolts (code 8448ZO)	No	4	
	NOTE: The following sanitary fitting includes medical tap. Contractor should include in their price, the cost of the medical tap			
5	Ceramic fireclay 585 x 435 mm "Hygia" hospital basin, including 1/4 turn wrist action mixer (Code: CO-515/053232H21), chromium plated. Waste (Code:CO-308 unslotted), overflow tube (Code: CO-8630Z000), two fixing screws, plugs and chromium plated. caps (Code :VL-8513ZO). Supplied with two tapholes.	No	4	
	Carried Forward			P
	Section No. 2 Bill No. 14 Plumbing & Drainage			

**PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL**

Brought Forward			P
<u>Water Closet</u>			
6	"Vaal Hibiscus"; (product code: 772600); or equal and approved vitreous china W.C. suite; close coupled 90 degrees outlet open rim wash down pan; to SABS 497; and matching 9 (6/3) litre cistern with front dual flush handle (code:77657); complete with heavy duty thermostat seat and cover; including all necessary/required fittings; all joints shall be sealed complete with white silicone sealant all along to a neat finish	No	5
7	"Vaal Protea" (product code 750200); or equal and approved vitreous china Paraplegic W.C. suite; close coupled 90 degrees outlet wash down pan; to SABS 497; with matching 9 litre plastic cistern code 710631, to SABS 821; complete with lid, heavy duty thermostat seat; including all necessary cistern fittings and purpose made extended side flush lever for disabled persons; fixed to concrete floor and cistern on wall; all joints to be sealed complete with white silicone sealant to a neat finish	No	4
<u>Urinal</u>			
8	Vaal Sanitaryware (or equal approved) 600 x 385 x 380mm Lavatera waterless white vitreous china wall mounted urinal (Code:705428WH) (Code: 705428WH) including EcoSmellstop waste, fixed on and including two hanger brackets (Code: 8127Z0).	No	1
<u>FIRE WATER RETICULATION</u>			
<u>Medium class galvanised mild steel screwed and socketed pipes including couplers in the running length</u>			
9	25mm Diameter pipe fixed to walls, in ceilings or roof, to columns or slabs, etc.	m	46
10	32mm Diameter pipe fixed to walls, in ceilings or roof, to columns or slabs, etc.	m	25
<u>Extra over piping for:</u>			
11	25mm Fittings	No	6
12	32mm Bend	No	3
Carried Forward			P
Section No. 2 Bill No. 14 Plumbing & Drainage			

**PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL**

Brought Forward			P
13	32mm Tee	No	2
<u>Fire fighting equipment</u>			
14	9kg DCP fire extinguisher with bracket fixed to and including 25 x 100 x 450mm polished hardwood backboard with chamfered edges plugged to brick or concrete wall	No	5
15	Approved swing type fire hose reel fitted with 30m length of 20mm hose mounted on and including either strongly constructed wall brackets bolted to wall or free standing cradle bracket bolted to floor.	No	2
16	25mm Diameter "Cobra Watertech" chromium plated fire stopcock (code 235).	No	2
<u>ELECTRIC WATER HEATERS</u>			
17	"Kwikot (or equal approved) 600i Dual 100 litre electric water heater type: Standard EF100-RD-1, size 535mm Diameter x 760mm, horizontally mounted, complete with all accessories as per manufacturer's instruction and specifications.	No	1
Carried Forward			P
Section No. 2 Bill No. 14 Plumbing & Drainage			

Brought Forward				P
<u>HOT AND COLD WATER SUPPLY</u>				
<u>Hard drawn (Class 0) copper pipes with capillary type soldered joints done in accordance with the manufacturer's specifications, including couplers in the running length.</u>				
Note: All piping embedded in concrete or chased into walls to be twice wrapped with strong approved building paper.				
All surface mounted copper pipe shall be deemed to include for 'Silka' type or similar approved expansion brackets, threaded rod, nuts, washers, anchors and drilling of holes in the concrete slab.				
18	15mm Diameter pipes fixed to walls, in ceilings or roofs, columns or slabs, etc	m	28	
19	22mm Diameter pipes fixed to walls, in ceilings or roofs, columns or slabs, etc	m	20	
<u>Extra over piping for:</u>				
20	15mm Fittings	No	30	
21	22mm Fittings	No	22	
<u>PIPE INSULATION</u>				
Water and weatherproof pipe insulation as "Thermafex" or equal and approved with "Quick Zip" fasteners with 15mm thick wall including working over formed bends to:				
22	15mm Diameter pipes.	m	18	
23	22mm Diameter pipes.	m	12	
<u>Extra over pipe insulation for dressing over:</u>				
24	15mm Fittings	No	18	
25	22mm Fittings	No	12	
Carried Forward				P
Section No. 2 Bill No. 14 Plumbing & Drainage				

**PROPOSED REHABILITATION CENTRE AT PLOT 37233
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FOR GABORONE CITY COUNCIL**

Brought Forward				P
<u>TAPS, VALVES, ETC.</u>				
<u>As supplied by Franke Kitchen Systems or equal approved</u>				
26	15mm Chrome plated "Cascade" swivel mixer (product code 303232) with overarm swivel spout and 15mm flexible connections	No	1	
<u>As supplied by Cobra Watertech (Pty) Ltd or equal approved</u>				
27	Shower mixer; Gala built in shower mixer"; (product code GA656) and 1no. Walcro low flow-CIRS V3-6 shower head; chrome plated; mounted flush to tile finish.	No	2	
28	Basin mixer; "Carina"; product code 292CA; chrome plated	No	4	
29	15mm Chromium plated hose bib tap with 20mm hose union Ref. No.108	No	1	
30	15mm Compression type angle regulating valve with 10mm bendable copper outlettube service connection (code 232/350)	No	25	
31	15mm Brass fullway screw down wheel valve	No	25	
32	20mm Brass fullway screw down wheel valve	No	3	
<u>WASTE AND VENTILATION INSTALLATION</u>				
<u>uPVC pipes to SABS 967 for above ground installation</u>				
33	50mm Diameter pipes.	m	14	
34	75mm Diameter pipes.	m	5	
35	110mm Diameter pipes.	m	18	
<u>Pipes; including trench excavations, granular bed and surround to pipes, backfilling with selected excavated material, compacting and removal of surplus excavated material from site</u>				
36	50mm Diameter pipes.	m	5	
Carried Forward				P
Section No. 2 Bill No. 14 Plumbing & Drainage				

**PROPOSED REHABILITATION CENTRE AT PLOT 37233
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Brought Forward			P
37	110mm Diameter pipes.	m	16
<u>Extra over pipes for uPVC pipes solvent weld or ring seal fittings</u>			
38	50mm Bend	No	9
39	50mm Access bend	No	4
40	50mm Access junction	No	5
41	75mm Bend	No	2
42	75mm Access bend	No	2
43	75mm Access junction	No	2
44	110mm Plain bend	No	9
45	110mm Access bend	No	5
46	110mm Access junction	No	9
47	110mm WC pan connector	No	9
48	110mm One way vent valve	No	9
<u>WASTE UNIONS, TRAPS, ETC.</u>			
<u>As supplied by Cobra Watertech (Pty) Ltd or equal and approved.</u>			
49	32mm Chromium plated basin waste union Ref. No. 301 complete with plug, chain and stay.	No	8
50	32mm Chromium plated bottle trap Ref. No, 340	No	4
51	40mm Chromium plated sink or bath waste union Ref. No. 316 complete with plug, chain and stay.	No	1
52	40mm Chemical Resistance Bottle trap	No	4
53	38mm Brass "P" trap Ref. No. 373	No	1
54	50mm brass shower trap with chromium plated waste and grating	No	2
Carried Forward			P
Section No. 2 Bill No. 14 Plumbing & Drainage			

PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL

Brought Forward		P
<u>EXTERNAL SEWAGE RETICULATION</u>		
<u>Unplasticised polyvinyl Chloride (uPVC) Class 34 sewer pipe for use underground, including couplers in the running length, laid to falls on class 'B' bedding, including excavations on pickable material, backfilling and compaction to 95% Modified AASHTO dry density and all necessary risk of collapse and de-water of trenches.</u>		
55	110mm Diameter pipe laid in ground not exceeding 1000mm deep	m 10
<u>Extra over on piping for</u>		
56	110mm Bend	No 1
<u>Sundries</u>		
57	ABC cleaning eye consisting of 110mm diameter cast iron skew or straight cleaning eye, including a 300 x 300mm cast iron cover and frame with precast concrete surround	No 1
58	110mm Diameter PVC gully assembly not exceeding 750mm deep with one or two inlets, including building one and encasing in mass concrete and having a precast concrete gully top surround with PVC grate.	No 4
<u>BUILDERS WORK IN CONNECTION WITH THE FOREGOING SERVICES</u>		
59	White silicone sealant in sealing around sanitary fittings, etc.	m 20
60	Hole through 115mm brick wall for pipe not exceeding 110mm diameter and make good.	No 13
61	Hole through 230mm brick wall for pipe not exceeding 110mm diameter and make good.	No 11
<u>TESTING</u>		
62	Allow for testing the sanitary plumbing installation.	Item
Carried Forward		P
Section No. 2 Bill No. 14 Plumbing & Drainage		

	Brought Forward		P
	<p><u>CHLORINATION</u></p>		
63	Allow for flushing out and chlorination the whole of the plumbing system including all subsequent flushing and cleaning out	Item	
	<p><u>STERILISATION</u></p>		
64	Allow for sterilisation of the whole of the plumbing and drainage system to the satisfaction of the Architect and Local Authorities.	Item	
	Carried Forward to Summary of Section No. 2		P
	Section No. 2 Bill No. 14 Plumbing & Drainage		

PROPOSED REHABILITATION CENTRE AT PLOT 37233
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FOR GABORONE CITY COUNCIL

Item No		Quantity	Rate	Amount
	<u>BILL NO. 15</u>			
	<u>ELECTRICAL WORKS (PROVISIONAL)</u>			
	<u>ELECTRICAL INSTALLATION</u>			
	<u>Supply, install, test and commission electrical fittings and accessories complete including conduits, boxes, chasing, wiring, termination, fixing etc.</u>			
	<u>Distribution Board</u>			
1	Supply and install flush Distribution Board (US3) complete with all accessories, busbars, fixtures and fittings manufactured and factory assembled as per the specification and drawings (inclusive of control & protective gears)	No	1	
2	Earthing and equipotential bonding		Item	
	<u>Control and Protective Gears</u>			
3	60A, 3kA single phase MCB	No	1	
4	60A, 3kA single phase ELCB with overload protection	No	1	
5	40A, 3kA single phase MCB	No	1	
6	30A, 3kA single phase MCB	No	1	
7	20A, 3kA single phase MCB	No	1	
8	10A, 3kA single phase MCB	No	1	
9	3kA 240V Lightning Arrestor	No	1	
	<u>Power Skirtings</u>			
10	Type AL801 (or equal approved) two tier three compartment power skirtings with powder coated finish, fixed to walls	m	42	
	Carried Forward			P
	Section No. 2 Bill No. 15 Electrical Works			

**PROPOSED REHABILITATION CENTRE AT PLOT 37233
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FOR GABORONE CITY COUNCIL**

Brought Forward			P
<u>Extra over for</u>			
11	End cap	No	16
12	16A Three pin flush mounted socket outlet with switch and flat earth pin, fixed to skirting	No	18
<u>Light Fittings</u>			
<u>Supply and install light fittings complete with lamp and all accessories as follows:</u>			
13	Type-1: 3 x 36W Recessed light fittings with prismatic diffuser (600 X 1200mm)	No	12
14	Type-2: 2 x 58W TL'D, 1200mm, fluorescent lamp-luminaire surface mounted with electronic ballast, IP22.	No	1
15	Type- 3: Recessed 15W Weatherproof LED AS EUROLUX -D115	No	20
16	Type-4: Recessed 5-7W LED Light fittings	No	57
17	Type- 5: 1 x 28W TC-D lamp bulkhead luminaire, with die cast aluminium base, opal high impact acrylic diffuser, IP65, as BEKA 31218 or approved equal.	No	11
18	Type- 6: Decorative External LED light fitting to Engineers recommendation.	No	13
19	Type- 7: Decorative Weatherproof up/down LED light fitting to Engineers recommendation.	No	4
<u>Lighting Points</u>			
20	Supply and install lightning points complete with conduits, boxes and all accessories, wired in 1.5mm ² PVC insulated copper cables drawn into 20mm diameter BE steel conduits	No	118
Carried Forward			P
Section No. 2 Bill No. 15 Electrical Works			

**PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL**

Brought Forward			P
<u>Light Switches</u>			
<u>Supply and install switch points including switches wired in 1.5mm² PVC insulated cables drawn into 20mm diameter BE steel conduits including boxes and all accessories for the following switches:</u>			
21	6A, 2-gang, 1-way, 2 terminal, flush wall mounted light switch as MK Logic range/Clipsal E-series or equal approved.	No	14
22	6A, 2-gang, 2-way, light switch, flush wall mounted as MK Logic range/Clipsal E-series or equal approved.	No	2
23	6A, 1-gang, 2-way, light switch, flush wall mounted as MK Logic range/Clipsal E-series or equal approved.	No	4
24	6A, 3-gang, 1-way, 2-terminal light switch, flush wall mounted as MK Logic range/Clipsal E-series or equal approved.	No	1
<u>Socket Outlets</u>			
25	Supply and install 15A double switched socket outlet wired in 2.5mm ² PVC insulated copper cables drawn into 20mm diameter BE steel conduits including boxes and all accessories as MK Logic range/Clipsal E-series or approved equal.	No	25
<u>Air Conditioning Points</u>			
26	Supply and install air conditioning points complete with conduits, boxes and all accessories, wired via. controllers in 2.5mm ² PVC insulated copper cables drawn trunking and into 20mm diameter BE steel conduits	No	10
<u>Hand Dryer Points</u>			
27	Supply and install hand dryer points complete with conduits, boxes and all accessories, wired in 2.5mm ² PVC insulated copper cables drawn into 20mm diameter BE steel conduits	No	8
<u>Telephone Points</u>			
28	Supply and install telephone points to Electrical Engineers approval	No	10
Carried Forward			P
Section No. 2 Bill No. 15 Electrical Works			

**PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL**

Brought Forward			P
<u>Photocell Point</u>			
29	Supply and install Photocell point wired in 1.5mm ² PVC/SC copper wires drawn in steel conduits c/w box and accessories.	No	1
<u>Photocell</u>			
30	Supply and install Photocell as National or equal approved in a weather proof bulkhead light fitting (IP65) with lamp holder removed.	No	1
<u>Lightning Protection</u>			
31	Supply and install 16mm diameter x 2400mm long grade copper coated earth electrode c/w inspection chamber, test clamp and labels.	No	4
32	Supply and install 12m x 50mmsq PVC insulated copper conductor (DC) drawn into 25mm diameter PVC conduit bonded with the roof sheets, terminated at the test tap and then at the earth electrode inspection chamber. The colour of the conductor shall be green.	No	4
<u>Fire Detection System</u>			
33	Supply and install fire detection system comprising of fire alarm control panel, smoke detector, smoke detector base, manual control point, fire alarm bell/sounder, and fuse isolator	No	1
<u>Sundries</u>			
34	Test and commission the complete electrical installation in the presence of the Electrical Engineer.		Item
Carried Forward to Summary of Section No. 2			P
Section No. 2			
Bill No. 15			
Electrical Works			

PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 16</u></p> <p><u>GLAZING</u></p> <p><u>MIRRORS</u></p> <p>Note: Care shall be taken that there is no strain on the mirror while and after fixing</p> <p><u>4mm Float glass; silvered and leaded backing; polished bevelled edges all round; four times holed for and including chrome plated dome headed cupscrews; plugging; to tiled wall background</u></p>			
1	450 x 600mm high; mirrors to tiled wall background	No	8	
	Carried Forward to Summary of Section No. 2			
	Section No. 2 Bill No. 16 Glazing			P

PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL

Item No		Quantity	Rate	Amount
	<u>BILL NO. 17</u>			
	<u>PAINTWORK</u>			
	<u>ON INTERNAL PLASTER, ETC</u>			
	<u>Prepare and apply one coat acrylic filler undercoat to SABS 681 (General purpose); paint two coats PVA emulsion paint interior quality; super acrylic PVA paint:</u>			
1	On plastered walls; internally	m2	947	
2	On internal concrete beams	m2	90	
	<u>ON SMOOTH CONCRETE SURFACES</u>			
	<u>One coat bonding liquid, one coat primer and two coats superior quality acrylic emulsion paint for interior and exterior use, including stopping blow holes</u>			
3	On Winblok frames	m2	94	
	<u>ON GYPSUM OR SIMILAR BOARDS</u>			
	<u>Prepare and apply "Rhinolyte" plaster, minimum 6mm thickness; BPD Gypsum or other equal and approved; trowelled to a smooth polished surface;</u>			
4	On gypsum plasterboard ceilings and cornices	m2	78	
5	On nutec board	m2	72	
	Carried Forward			P
	Section No. 2 Bill No. 17 Paintwork			

PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL

	Brought Forward			P
	<u>ON METAL</u>			
	<u>Prepare, touch up with red oxide primer coat to SABS 909; paint surface with one coat universal undercoat to SABS 681; finishing with two coats high gloss enamel paint to SABS 631</u>			
6	On door frames	m2	26	
7	On structural steel members	m2	42	
8	Eaves gutters	m2	16	
	<u>ON WOOD</u>			
	<u>Prepare, sand smooth, knot, prime with one coat pink wood primer to SABS 1158; paint with universal undercoat to 681; finishing surfaces with two coats high gloss enamel paint to SABS 630</u>			
9	On doors	m2	100	
	Carried Forward to Summary of Section No. 2			P
	Section No. 2			
	Bill No. 17			
	Paintwork			

**PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL**

Bill No	SECTION SUMMARY - Building Works	Page No	Amount
1	Substructure	7	
2	Concrete, Formwork & Reinforcement	9	
3	Precast Concrete	11	
4	Masonry	13	
5	Waterproofing	14	
6	Roof Coverings, etc	17	
7	Carpentry & Joinery	18	
8	Ceilings, Partitions & Access Flooring	20	
9	Ironmongery	24	
10	Structural Steelwork	26	
11	Metalwork	29	
12	Plastering	31	
13	Tiling	33	
14	Plumbing & Drainage	41	
15	Electrical Works	45	
16	Glazing	46	
17	Paintwork	48	
	Carried to Final Summary		P
	Section No. 2		

PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL

Item No		Quantity	Rate	Amount
	<u>EXTERNAL WORKS</u>			
	<u>BILL NO. 1</u>			
	<u>SITE CLEARANCE</u>			
	<u>Note:</u> No trees may be cut down until buildings have been set out. The Architect shall indicate which trees are to be removed.			
1	Clear the whole of the site for buildings and associated external works of all grass, roots, other vegetation, loose boulders, rubble and rubbish including stripping topsoil average 150mm deep, cutting down trees not exceeding 200mm diameter and roughly filling up holes with approved materials from excavations etc and dumping at the ground to be found by the Contractor and approved by the Council.	m2	11,500	
2	Strip off topsoil average 150mm deep and deposit on site as directed.	m2	11,500	
3	Excavate in spoil heaps, load up, cart and spread and level over site where directed.	m3	1,725	
4	Ditto and cart away from site	m3	1,725	
	Carried Forward to Summary of Section No. 3			P
	Section No. 3			
	Bill No. 1			
	Site Clearance			

PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL

Item No		Quantity	Rate	Amount
	<u>EXTERNAL WORKS</u>			
	<u>BILL NO. 2</u>			
	<u>ROADS AND PAVINGS</u>			
	<u>Earthworks</u>			
1	Excavate to reduce levels under roads and pavings not exceeding 2m deep and deposit in spoil heaps on site where directed.	m3	412	
2	Extra over excavations for excavating in hard material	m3	141	
3	Ditto in rock	m3	70	
4	Compaction of ground surfaces under roads, parking areas, etc including scarifying for a depth of 150mm, breaking down oversized material, adding suitable material where necessary and compacting to 95% modified AASHTO density.	m2	1,374	
	<u>Disposal</u>			
5	Extra over excavations for cart away	m3	412	
	<u>Filling, etc.</u>			
6	Filling in imported (G5) material, spread, levelled, watered and compacted in 150mm layers to 98% modified AASHTO density and each layer tested and passes before proceeding.	m3	206	
7	Filling in imported (G7) material, spread, levelled, watered and compacted in 150mm layers to 93% modified AASHTO density and each layer tested and passes before proceeding.	m3	206	
	<u>Prescribed density tests on filling:</u>			
8	"Field Density" tes including "Optimum Moisture Content" (four readings per test).	No	137	
	Carried Forward			P
	Section No. 3 Bill No. 2 Roads and Pavings			

PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL

Brought Forward			P
<u>PAVING</u>			
<u>Bevelled edged cement paving blocks; including square and raking cutting; bedding, jointing and grouting; with and including 20mm sand bed; strictly in accordance with manufacturer's instructions</u>			
9	200 x 100 x 50mm Thick pavers	m2	35
<u>Kerbstones, etc</u>			
10	150 x 300mm High precast concrete kerb (SABS 927 fig 3) jointed in cement mortar (1:3) on and including 300mm wide x 150mm thick concrete class 15/20 base with haunching at back of each joint including excavation, backfilling etc.	m	366
11	150 x 300mm High precast concrete kerb (SABS 927 fig 3) jointed in cement mortar (1:3) circular on plan exceeding 4.00m radius on and including 300mm wide x 150mm thick concrete class 15/20 base with haunching at back of each joint including excavation, backfilling etc.	m	55
12	460 x 300mm high precast concrete kerb (SABS 927 fig. 3 & fig 14) formed of 1no. 150 x 300mm and 1no. 300 x 125mm high kerbs jointed in cement mortar (1:3) on and including 660 x 210mm thick concrete class 15/20 base with haunching at back of each joint including excavation, backfilling, etc.	m	14
<u>One coat "Plascon" or equal and approved road line paint to SA BA 731 applied at a rate of 2.50 m²/litre, including setting out, to:</u>			
13	100mm Wide solid white line to concrete paving or premix surfacing	m	120
<u>SOIL POISONING</u>			
<u>Weedkiller (active ingredients metalaclor 102.8 g/l, terbitilasien 248.6 g/l and atrasion 248.6 g/l) mixed in the proportion of 100ml weedkiller to 100l water and applied at a rate of 10 l/m².</u>			
14	Under paving, etc	m2	1,374
Carried Forward			P
Section No. 3 Bill No. 2 Roads and Pavings			

**PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL**

	Brought Forward			P	
15	<u>Soil insecticide in accordance with SANS 5859</u> Under roads, parkings and pavings, etc	m2	1,374		
	Carried Forward to Summary of Section No. 3			P	
	Section No. 3 Bill No. 2 Roads and Pavings				

PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL

Item No		Quantity	Rate	Amount
	<u>EXTERNAL WORKS</u>			
	<u>BILL NO. 3</u>			
	<u>SOIL DRAINAGE</u>			
	<u>Unplasticised polyvinyl Chloride (uPVC) Class 34 sewer pipe for use underground, including couplers in the running length, laid to falls on class 'B' bedding, including excavations on pickable material, backfilling and compaction to 95% Modified AASHTO dry density and all necessary risk of collapse and de-water of trenches.</u>			
1	110mm Diameter pipe laid in ground not exceeding 1000mm deep.	m	97	
2	110mm Diameter pipe laid in ground exceeding 1000mm but not exceeding 2000mm deep.	m	65	
	<u>Manholes, etc,</u>			
3	Manhole size 685 x 915mm internal dimension not exceeding 1000mm deep to invert level from ground level with 225mm thick mass concrete base class 15/19 including all formwork, one brick sides in English bond jointed in (1:3) benching average 150mm thick steeply haunched and finished smooth to channel, one coat cement rendering (1:3) with steel trowel finish to walls above benching, and with cast iron cover and frame (elsewhere measured) set in and including 1365 x 1135 x 150mm thick 30Mpa reinforced concrete cover including all formwork and reinforcing bars (6No.R12 x 1320mm long and 6No. R12 x 890mm long), including necessary excavation, in earth, backfilling, formwork, carting away of excavated material, necessary planking and strutting, etc., complete.	No	7	
	Carried Forward			P
	Section No. 3 Bill No. 3 External Soil Drainage			

**PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL**

Brought Forward			P
4	Manhole size 915 x 1140mm internal dimension exceeding 2000mm but not exceeding 3000mm deep to invert level from ground level with 225mm thick mass concrete base class 15/19 including all formwork, one brick sides in English bond jointed in (1:3) benching average 150mm thick steeply haunched and finished smooth to channel, one coat cement rendering (1:3) with steel trowel finish to walls above benching, and with cast iron cover and frame (elsewhere measured) set in and including 1590 x 1365 x 150mm thick 30Mpa reinforced concrete cover including all formwork and reinforcing bars (8No.R12 x 1550mm long and 11No. R12 x 1315mm long), including necessary excavation, in earth, backfilling, formwork, carting away of excavated material, necessary planking and strutting, etc., complete.	No	8
5	Break into existing precast concrete manhole side not exceeding 2000mm deep to invert level (concrete rings 70mm thick) and build in end of one 200mm diameter uPVC pipe, break out benching internally, fix one new 300mm uPVC channel junctions and 1000mm of uPVC channel and make good all works disturbed including necessary excavation in earth, backfilling, formwork, carting away of excavated material, necessary planking and strutting, etc., complete.	No	1
<u>Class 34 uPVC sewer channels</u>			
6	110mm Channel in bottoms of inspection chambers.	m	18
<u>Extra over Class 34, uPVC sewer channel for fittings</u>			
7	110mm Bend	No	18
8	110mm Junction	No	20
<u>Covers and frames, etc.</u>			
9	Medium duty 600 x 450mm; cast iron single seal cover and frame	No	7
10	Heavy duty Type 2A non-ventilated circular road manhole, size 550mm Diameter x 176kg.	No	8
Carried Forward			P
Section No. 3 Bill No. 3 External Soil Drainage			

**PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL**

	Brought Forward		P
11	<p><u>Testing</u></p> <p>Allow for testing of the soil drainage installation</p>	Item	
	Carried Forward to Summary of Section No. 3		P
	<p>Section No. 3 Bill No. 3 External Soil Drainage</p>		

PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL

Item No		Quantity	Rate	Amount
	<u>EXTERNAL WORKS</u>			
	<u>BILL NO. 4</u>			
	<u>WATER SUPPLY</u>			
	<u>Class 9 uPVC pressure pipes with solvent welded joints</u>			
1	90mm Diameter pipe laid in ground not exceeding 1000mm deep.	m	60	
	<u>Extra over on piping for "Plasson" compression type fittings</u>			
2	90mm Equal tee	No	3	
3	90mm 90 Degree bend	No	4	
	<u>Class 10 HDPE pipes</u>			
4	32mm pipes laid in ground not exceeding 1000mm deep	m	165	
	<u>Extra over HDPE pipes for fittings</u>			
5	32mm Diameter fittings	No	13	
6	32mm Diameter HDPE to galvanised pipe adaptor	No	1	
	<u>Class "C" concrete in anchor blocks including formwork and additional excavation</u>			
7	Anchor blocks	m3	1	
	<u>Marker Posts</u>			
8	Precast concrete marker posts to WUC approval approximately 1000m long set 0.35m in 300 x 300 x 400mm deep mass concrete including excavation and backfilling, painted white above ground and marked with maximum two letters	No	4	
	<u>Copper, brass, etc., including joints to pipes, etc., where necessary</u>			
9	110mm Cast iron bulk water meter	m	1	
	Carried Forward			P
	Section No. 3 Bill No. 4 External Water Reticulation			

**PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL**

Brought Forward			P
10	110mm Cast iron sluice valve	No	2
11	110mm Non return valve	No	4
12	110mm Automatic air release valve	No	1
<u>Fire hydrant</u>			
13	Cast iron underground fire hydrant with standard London round thread complete with extension piece.	No	2
<u>STANDPIPE</u>			
The following in standpipes:			
14	19mm Diameter garden stand pipe comprising 1.5m length, 20mm diameter galvanised mild steel pipe securely fixed to and including 150mm diameter creosote wooden post 1.5m long with and including 3No. 25 x 1m galvanised strips driven into ground complete with two elbow, one adaptor coupling and one 19mm brass Bibcock tap with hose union and including all necessary joints	No	1
15	900 x 600 x 100mm thick in-situ concrete slab and setting in position under stand pipe including all excavation, disposal, formwork, etc	No	1
16	Prepare and apply one coat mordant, one coat universal undercoat and two coats gloss enamel paint on steel pipe not exceeding 50mm diameter	m	2
<u>VALVE CHAMBERS, STOPCOCK BOXES, SERVICE DUCTS, ETC.</u>			
17	Excavate for and build valve chamber size 600 x 600 x 600mm deep with one brick sides in cement mortar on a 75mm thick class "B" concrete base, rendered smooth internally in cement mortar, fitted with manhole cover and frame (measured elsewhere), including concrete kerb 700 x 700 x 40mm thick, finished smooth to end flush with surface of paving or ground	No	1
Carried Forward			P
Section No. 3 Bill No. 4 External Water Reticulation			

**PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL**

Brought Forward			P
18	Excavate for and build fire hydrant chamber size 864 x 716mm, not exceeding 1000mm deep with half brick sides in cement mortar on a well compacted fill, rendered smooth internally in cement mortar, fitted with manhole cover and frame (measured elsewhere), finished smooth to end flush with surface of paving or ground	No	2
<u>Covers, frames, etc.</u>			
19	Medium duty 900 x 600mm cast iron cover and frame type 9E	No	2
20	Medium duty 600 x 600mm cast iron cover and frame type 9A	No	1
<u>TESTING, STERILISATION, ETC</u>			
21	Allow for testing of the water supply service		Item
Carried Forward to Summary of Section No. 3			P
Section No. 3			
Bill No. 4			
External Water Reticulation			

**PROPOSED REHABILITATION CENTRE AT PLOT 37233
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Bill No	SECTION SUMMARY - External Works	Page No		Amount
1	Site Clearance	50		
2	Roads and Pavings	53		
3	External Soil Drainage	56		
4	External Water Reticulation	59		
Carried to Final Summary			P	
	Section No. 3			

PROPOSED REHABILITATION CENTRE AT PLOT 37233
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Item No		Quantity	Rate	Amount
	<u>PROVISIONAL SUMS</u>			
	<u>SPECIALIST INSTALLATION</u>			
	<u>Therapeutic Pool</u>			
	Provide the amount of Three Hundred and Fifty Thousand Pula for therapeutic pool, executed complete	Item		350,000.00
1	Add profit upon above		%	
2	Attend upon the firm executing the therapeutic pool		%	
	<u>Furniture</u>			
	Provide the amount of Six Hundred and Fifty Thousand Pula for furniture, installed complete	Item		650,000.00
3	Add profit upon above		%	
4	Attend upon the firm installing the furniture		%	
	Carried Forward			P
	Section No. 4 Bill No. 1 Provisional Sums			

PROPOSED REHABILITATION CENTRE AT PLOT 37233
BLOCK 8, GABORONE
FOR GABORONE CITY COUNCIL

	Brought Forward		P	
	<u>BUDGETARY ALLOWANCES</u>			
	<u>The following amounts are included here purely for the Employer's budgetary purposes and will be omitted from the contract if not required. No claim arising from the omission of these sums will be entertained.</u>			
5	Provide the amount of Five Hundred Thousand Pula for BPC connection fees	Item		500,000.00
6	Provide the amount of Fifty Thousand Pula for WUC connection fees	Item		50,000.00
	<u>CONTINGENCIES</u>			
	<u>The following work to be executed by the Contractor and paid for in terms of the Conditions of Contract</u>			
7	Provide the amount of Six Hundred Thousand Pula for Contingencies	Item		600,000.00
	Carried to Final Summary		P	
	Section No. 4			
	Bill No. 1			
	Provisional Sums			

**PROPOSED REHABILITATION CENTRE AT PLOT 37233
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Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	Preliminaries	2	
2	Building Works	49	
3	External Works	60	
4	Provisional Sums	62	
	VAT @ 14%		P
	Carried to Form of Tender		P