BILLS OF QUANTITIES
(ADDENDA)

FOR

PROPOSED CONVERSION OF ATHOL HOUSE INTO ZIMSTAT OFFICES

AT

HARARE

FOR

ZIMBABWE NATIONAL STATISTICS AGENCY

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Item No.		*Unit*	**Quantity**	***Rate***	***Amount***
	BILL NUMBER 2				
	DEMOLITIONS AND ALTERATIONS(PROVISIONAL)				
	Preambles				
1	The Contractor is advised to carefully inspect the structure to be demolished in order to ascertain the exact nature and extent of the work.	*Item*			
2	The Contractor will be held responsible for and is to make good at his own expense any damage caused to the existing remaining structures and surrounding buildings and all work not to be removed during the progress of the works and also to any fittings, etc, and is to leave all perfect and watertight on completion, cover and protect as necessary.	*Item*			
3	Allow for watering by spraying, screens etc. to prevent nuisance and dust.	*Item*			
4	The prices are to include for all necessary shores, needles, struts, temporary support , etc, and for the whole work whether specifically stated or not.	*Item*			
5	The work is to be carried out in stages to suit the building operations.	*Item*			
6	All water supplies and drainage services encountered and found necessary to be disconnected are to be stopped off as directed after giving due notice to the Architect.	*Item*			
7	All electrical wiring, conduit, fittings ,etc encountered are to be disconnected and removed by Nominated Sub-Contractor after giving notice to the Architect.	*Item*			
8	Allow for making good all trades to existing work where damaged or disturbed or at junction with new work with all necessary new material to match existing and leave perfect.	*Item*			
	Carried to Collection			**$**	

Item No.		***Quantity***		***Rate***	***Amount***
1	The Contractor is to give **CREDIT** in his prices for any old materials to be carted away; the Contractor is to inspect the condition of the materials before allowing any credit as no claim will be allowed in reduction of credit due to condition of the materials. The amount to be calculated after allowing for cost of pulling down and carting away all old materials, rubbish, debris from the demolitions and remove immediately from the site. Leave the whole of the site clear for building upon.	*Item*			
	DEMOLITIONS				
2	Break up half brick wall plastered both sides and cart away debris.	m^2	1939		
3	Break up one brick wall plastered one sides and cart away debris.	m^2	373		
4	Remove reinforced existing concrete slab.	m^2	3		
5	Remove existing painted plaster and prepare walls to take new plaster internally.	m^2	302		
6	Remove existing painted plaster from walls and leave ready to take new ceramic wall tiles internally.	m^2	422		
7	Remove existing plastered ceiling sand cart away.	m^2	512		
8	Remove existing tapboard ceiling on and including softwood brandering and cart away (approximate area 1021).	m^2	474		
9	Ditto wood panelling to walls.	m^2	336		
10	Acoustic tile mineral fibre suspended ceilings and suspension system.	m^2	452		
11	Take out dry wall partitions.	m^2	451		
12	Take out 38 x 228mm hardwood handrail from walls.	*m*	125		
13	Take out steel balustrade and timber handrail 1200mm high	*m*	394		
14	Take out and remove glazed aluminium door size approximately 2000x2400mm high from one brick wall,and handover to the client.	*no*	2		
15	Ditto glazed steel window 900 x 600 mm ditto	*no*	30		
16	Ditto 1500 x 2100mm ditto	*no*	33		
17	Ditto 1800 x 2100mm ditto	*no*	16		
18	Ditto size approiximately 3400 x 2400mm ditto	*no*	44		
	Carried to Collection				

Item No.		***Quantity***		***Rate***	***Amount***
	Take out steel frames from one brickwall to be demolished steel door frame for door				
1	Size 815 x 2032mm from half brickwall	*no*	148		
2	Steel frame for door size 1200 x 2100mm high from one brickwall	*no*	21		
3	Take aluminium curtain wall from walls and cart away	*m²*	162		
	Hack up/off and removing floor tiles and skirtings including screeds, and prepare surfaces to receive new screeds/floors.				
4	Floor wood block finish, skirtings and screed.	*m*	26946		
5	Ditto carpet and screed	*m²*	334		
6	Ditto ceramic floor tiles skirting sand screed	*m²*	657		
7	Chipout existing quarry tiles	*m²*	147		
8	Take out existing regular cut slate and screed to floor for new floor finish.	*m*	147		
9	Clean mastic asphalt from flat roof and leave ready to take new waterproofing	*m²*	225		
	Rake out sanitary fittings, plumbing pipe fittings and handover to client.				
10	Vitreous china,water closet suite complete.	*no*	66		
11	Vitreous china wash hand basin to walls including pillar tap and rubber trap	*no*	28		
12	Toilet roll holder	*no*	65		
13	Toilet rail	*no*	28		
14	Remove firehorse reel and connecting pipes.	*m*	14		
15	All reduntant pipes and fittings not exceeding 50mm diameter.	*no*	210		
16	Ditto exceeding 50mm but not exceeding 110mm diameter.	*no*	160		
17	Remove 250L geyser.	*no*	6		
	Carefully taking out and removing electrical installation from walls and handover to client.				
18	Electrical installation, including couduits,rising,circuit,boards,etc.	*item*			
19	De-comission lift to 7 floors and leave tunnel to take new.	*item*			
	Carried to Collection			**$**	

Item No.		***Quantity***		***Rate***	***Amount***
	BILL NO. 2 **DEMOLITIONS AND ALTERATIONS(PROVISIONAL)** **COLLECTION**				
	Total BROUGHT FORWARD from Page Number		73		
			74		
			75		
	BILL NO. 2 **DEMOLITIONS AND ALTERATIONS(PROVISIONAL)** **COLLECTION**			**$**	

Item No		***Unit***	***Quantity***	***Rate***	***Amount***
	BILL NO. 3				
	FOUNDATIONS (PROVISIONAL) ***(For Preambles see General Specification)***				
	EXCAVATIONS				
	Excavate in packable earth below natural or reduced level and excavated material to be cart away to a site to be found by the Contractor (cart away elsewhere measured).				
1	Bulk excavations to reduce levels not exceeding 300mm deep commencing from natural ground level.	m^3	24		
2	Excavations for surface trenches not exceeding 2 metre deep commencing from reduced ground level.	m^3	16		
3	Ditto for pile cap not exceeding 2 metres deep.	m^3	17		
4	Extra over excavation in pickable material for excavation in hard pickable material.	m^3	2		
5	Ditto rock.	m^3	1		
	PLANKING AND STRUTTING				
6	Allow for risk of collapse by maintaining and supporting sides of all trench excavations and making good all slips.	m^2	32		
7	Ditto pile caps.	m^2	45		
	DISPOSAL				
8	Backfilling to trenches, bases, etc. with approved excavated materials, levelled, well watered and compacted in layers not exceeding 150 mm thick to 91% Mod AASHTO density.	m^3	6		
9	Cart away surplus excavated materials to dump site to be found by Contractor.	m^3	27		
	FORMATION				
10	Scarify bottom of trenches for a minimum depth of 150mm, water and mechanically compact to 90% Mod AASHTO.	m^2	16		
11	Ditto pile caps.	m^2	21		
	Carried to Collection			**$**	

Item No		***Unit***	***Quantity***	***Rate***	***Amount***
1	Ditto reduced levels.	m^2	81		
2	Selected excavated material spread, level and compact in maximum 150mm layers under floor slab to 90% H.C.E.	m^3	12		
3	Selected imported inert granular material supplied and carted to site by contractor spread, level and compact in maximum 150mm layers under floor slab to 93% H.C.E.	m^3	12		
4	Ditto 96% H.C.E.	m^3	12		
	Sundries				
	One layer 250 microns "Tarcon" polythene damp proof membrane 150mm wide, side and laps stapled at joints, laid on and including 50mm sand bed.				
5	Under concrete surface beds.	m^2	81		
	TERMITES				
6	Termite treatment with approved fumigant to SAZS 314 (1973), sprayed over filling and tops of foundation walls. *(Contractor to provide ten year guarantee as to the contents, quality and effectiveness of the termite treatment).*	m^2	83		
	CONCRETE				
	Vibrated reinforced concrete (Grade 20-20mm stone) in:				
7	Footings	m^3	5		
7	Ground beams	m^3	3		
	Vibrated reinforced concrete (Grade 25-20mm stone) in:				
8	Surface bed.	m^3	10		
9	Pile cap.	m^3	17		
	Sundries				
10	Strike off and cure.	m^2	102		
11	Cutting off tops of 600mm diameter piles.	*no*	6		
	Carried to Collection			**$**	

Item No		***Unit***	***Quantity***	***Rate***	***Amount***
	Testing				
1	Allow for carrying out slump tests when directed.	*Item*			
2	Allow for providing necessary moulds, casting, curing cubes and delivery to Testing Laboratory.	*Item*			
	FORMWORK				
	Sawn formwork as described to:				
3	Sides of pile caps in narrow widths.	m^2	45		
	Steel formwork as described to:				
	Expansion joints				
4	20mm "Kaylite"or equally approved joint filler between existing and new brick walls.	m^2	2		
5	Ditto between existing brickwork and new concrete slab.	m^2	2		
6	Rake out 20mm Kaylite for a depth of 10mm, prime and seal with polysulphide sealer (vertically).	*m*	9		
7	Ditto horizontally.	m^2	8		
	REINFORCEMENT				
	Welded fabric reinforcement of approved manufacture including all cutting, tying, placing in position with necessary temporary supports and minimum of 300mm laps both ways (measured nett).				
8	"Cotts Ref S193" mild steel mesh fabric reinforcement of approved manufacture weighing 1.93 kilograms per square metre minimum 300mm laps both ways (measured nett) in slab.	m^2	81		
	Mild and high tensile steel reinforcement to concrete including all bending, hooked ends, binding wire and temporary supports.				
9	Steel bar reinforcement (All sizes)	*kg*	2,729		
	Cover blocks and spacers				
10	Allow for cover blocks and spacers.	*Item*			
	Carried to Collection			**$**	

Item No		***Unit***	***Quantity***	***Rate***	***Amount***
	BRICKWORK				
	Approved structural solid bricks (minimum compressive strength 12Mpa) in 1:3 cement mortar in stretcher bond.				
1	345mm brick wall.	m^2	14		
	Reinforcement				
2	"Cotts ref C1" brick reinforcement built into half brick walls, lapped at angles and passings (measured nett).	*m*	55		
3	"Cotts ref C2" brick reinforcement built into one brick walls, lapped at angles and passings (measured nett).	*m*	55		
	Sundries				
4	1.25mm Galvanised hoop iron tie 25mm wide and 600mm long one end split and fanged for and cast into concrete and other end cranked and built into brickwork.	*no*	5		
	Carried to Collection			**$**	
	BILL NO. 3 **FOUNDATIONS (PROVISIONAL)** **COLLECTION**				
	Total BROUGHT FORWARD from Page Number		77		
			78		
			79		
			80		
	BILL NO. 3 **FOUNDATIONS (PROVISIONAL)** **CARRIED TO SUMMARY**			**$**	

tem No		Unit	Quantity	Rate	Amount
	BILL NUMBER 4				
	CONCRETE, FORMWORK AND REINFORCEMENT				
	(For Preambles see General Specification)				
	STRUCTURAL CONCRETE				
	Vibrated reinforced concrete (Grade 30 - 20 mm stone) in:				
1	Suspended slabs and integral beams.	m^3	51		
2	Beams	m^3	40		
3	Columns	m^3	17		
4	Roof slab	m^3	16		
5	Slab edge thickening	m^3	12		
	Sundries				
6	Strike off and cure top of concrete.	m^2	332		
	Testing				
7	Allow for carrying out slump tests when directed.	item			
8	Allow for providing necessary moulds, casting, curing cubes and delivery to Testing Laboratory.	item			
	FORMWORK				
	Sawn formwork as described to:				
9	Soffits of suspended slabs.	m^2	332		
10	Soffits of beams in narrow widths.	m^2	79		
11	Sides of beams in narrow widths.	m^2	271		
12	Sides of slabs in narrow widths.	m^2	8		
13	Sides of square or rectangular columns.	m^2	165		
	Carried to Collection			**$**	

tem No		Unit	Quantity	Rate	Amount
	REINFORCEMENT (PROVISIONAL)				
	Mild and high tensile steel reinforcement to concrete including all bending, hooked ends, binding wire and temporary supports.				
1	Steel bar reinforcement (All sizes).	kg	17,459		
	Cover blocks and spacers				
2	Allow for cover blocks and spacers.	item			
	PRECAST CONCRETE				
	Precast concrete dripstones placed in position including all necessary shallow excavations, etc.				
3	Dripstone size 270 x 620mm finished fair on all exposed surfaces.	no	18		
	Precast Lintels				
	Pre-stressed precast concrete lintels (20Mpa) in cement mortar 1:3 nominal size 115 x 75mm high.				
4	Lintel size 1273mm long.	no	34		
5	Ditto size 1360mm long.	no	32		
6	Ditto size 2365mm long.	no	3		
	Pre-stressed precast concrete lintels (20Mpa) in cement mortar 1:3 nominal size 230 x 75mm high.				
7	Lintel size 1360mm long.	no	5		
	Carried to Collection			**$**	
	BILL NO. 4 **CONCRETE, FORMWORK & REINFORCEMENT** **COLLECTION**				
	Total BROUGHT FORWARD from Page Number		**Page**		**Amount**
			81		
			82		
	BILL NO. 4 **CONCRETE, FORMWORK & REINFORCEMENT** **CARRIED TO SUMMARY**			**$**	

tem No		Unit	Quantity	Rate	Amount
	BILL NUMBER 5				
	BRICKWORK				
	(For Preambles see General Specification)				
	Brickwork in common bricks in cement mortar 1:4 comprehensive strength 7.5Mpa in stretcher bond.				
1	Half brick wall.	m^2	880		
2	One brick wall.	m^2	253		
3	345mm Brickwall.	m^2	128		
4	460mm Brickwall.	m^2	38		
	Sundries				
5	Fair raking cutting and waste.	m^2	41		
6	Rough raking cutting brickwork and waste.	m^2	83		
	DAMP PROOF COURSE				
	Note: No damp proof course is to be covered up until it has been inspected and approved.				
	One layer of three ply bituminous felt sheeting as damp proof course as described well lapped at joints and junctions (measured nett).				
7	On walls.	m^2	12		
8	Stepped under cills.	m^2	67		
	FACINGS				
9	Extra over common brickwork for facing bricks pointed with flush horizontal and vertical joints.	m^2	773		
	REINFORCEMENT				
	Brickforce lapped at joints and junctions and building in as the work proceeds (measured nett).				
10	Ref. C1 in half brick walls (measured nett).	*m*	2,964		
11	Ref C2 in one brick walls (ditto).	*m*	1,344		
	Carried to Collection			**$**	

Item No		Unit	Quantity	Rate	Amount
	Expansion joints				
1	20mm "Kaylite"or equally approved joint filler between existing and new brick walls.	m^2	33		
2	Ditto between existing brickwork and new concrete slab.	m^2	37		
3	Rake out 20mm Kaylite for a depth of 10mm, prime and seal with polysulphide sealer (vertically).	*m*	96		
4	Rake out 10mm Kaylite or other equal approved filler for a depth of 10mm, prime and seal with polysulphide sealer (horizontally).	*m*	97		
	BUILDING IN				
5	Set up in position, cross brace and build in pressed steel door frame not exceeding 5 square metres.	*no*	95		
	VENTILATION				
6	230 x 150mm Precast concrete external louvred air bricks with fine copper wire gauze at the back build into brickwall flash with plaster.	*no*	16		
	Carried to Collection			**$**	
	BILL NO. 5 **BRICKWORK** **COLLECTION**				
	Total BROUGHT FORWARD from Page Number		**Page**		**Amount**
			83		
			84		
	BILL NO. 5 **BRICKWORK** **CARRIED TO SUMMARY**			**$**	

Item No		***Unit***	***Quantity***	***Rate***	***Amount***
	BILL NUMBER 6				
	WATERPROOFING (PROVISIONAL) ***(For Preambles see General Specification)***				
	WATERPROOFING				
	Apply one layer of a.b.e. abedex 4mm, dual reinforced waterproofing membrane ensuring it is fully bonded by means of "torch on fusion" to and including priming surface to falls, with side laps of 75mm and end laps of 100mm.				
	Roofing in three layers each 10 mm thick with staggered joints on and including bitumen laminated kraft paper underlay including finishing with three coats bituminous based aluminium paint				
1	Roof slab to falls and cross falls laid on screed (elsewhere measured)	m^2	82		
2	Ditto to existing roof slabs.	m^2	225		
	Sundries				
3	250mm Micron heavy duty polythene sheeting well lapped at joints and junctions including all cutting and waste (measured nett).	m^2	82		
4	Ditto to existing roof slabs.	m^2	225		
5	Two coats reflective aluminium bituminous paint to asphalt.	m^2	82		
6	Ditto to existing roof slabs.	m^2	225		
7	Ditto to edges in narrow widths.	m^2	8		
8	Ditto to existing roof slabs.	m^2	18		
	Sundry				
9	Working torch on fusion into and around 110mm diameter "fulbore" rainwater outlet.	*no*	6		
	BILL NO. 6 **WATERPROOFING (PROVISIONAL)** **CARRIED TO SUMMARY**			$	

Item No		***Unit***	***Quantity***	***Rate***	***Amount***
	BILL NUMBER 7				
	JOINERY AND IRONMONGERY				
	(For Preambles see General Specification)				
	CEILINGS				
	Suspended Ceilings				
	Note:				
	600 x 600 mm Demountable mineral fibre acoustic ceiling tiles on and including exposed grid system including all square cutting and waste.				
1	Ceiling tiles.	*m2*	3033		
	Plasterboard Ceilings				
	9mm Plasterboard screwed to and including 38 x 38mm timber battens or equal approved metal framing and horizontal bracing at 600mm maximum centres.				
2	Ceilings fixed to underside of concrete slab.	*m2*	79		
3	Extra over for bulkhead 600mm high.	*m*	10		
4	Ditto 600mm high.	*m*	5		
5	Extra for mitred joints (provisional)	*no.*	2		
	PARTITIONS				
	Aluminium framed glass partitions				
6	6.38 mm Laminated glass double glazed partitioning 2720mm high.	*m*	384		
7	Ditto 3570mm high.	*m*	37		
	Extra over Partitions for				
8	Aluminium door size 900 x 2100mm high.	*no*	60		
	Carried to Collection			**$**	

Item No		***Unit***	***Quantity***	***Rate***	Amount
	DOORS				
	44mm Internal quality commercial semi-solid core flush panel doors with concealed hardwood edge strips along vertical edges finished on both sides with saligna or equal approved commercial veneer suitable for painting both sides hung to pressed steel frames (elsewhere measured.)				
1	44mm Door size 813 x 2100mm high.	*no*	34		
2	Ditto size 900 x 2100mm high.	*no*	57		
3	Purpose made semi-solid core flush panel door in two equal leaves size overall 1650 x 2100mm high suitable for vanish(elsewhere measured) (D12).	*no.*	2		
	Standard external quality commercial semi-solid core flush panel doors with concealed hardwood edging all round suitable for painting both sides.				
4	44mm Solid core external quality flush panel door size 900 x 2100mm high with hard wood edging all round suitable for vanish.	*no.*	14		
5	Purpose made solid core external quality flush panel door in two equal leaves size overall 1574 x 2100mm high suitable for vanish(elsewhere measured) .	*no.*	1		
	IRONMONGERY				
	The follwing to be "Union" or equal approved fixed to timber or metal doors and frames				
6	Union No. CZ 682-24-95CH two lever mortice lockset.	*no*	15		
7	Union No. CZ 682-24-77CH three lever mortice lockset.	*no*	91		
8	Union 8400 rubber door stop to wall or floor.	*no*	106		
9	Approved chromium plated toilet tissue roll holder to wall.	*no*	42		
	Ablution Accessories				
10	"Kimberely Clark Professional" Code 13567 or equal approved slimroll reflex paper dispenser fixed to walls	*no.*	17		
	Carried to Collection			**$**	

Item No		***Unit***	***Quantity***	***Rate***	Amount
1	NTL code R31011 or equal approved 20mm Diameter Chromium plated towel rail 600 mm long with and including end brackets plugged and screwed to tiled walls	*no.*	2		
2	130 x 119 x 45mm high Chromium plated soap basket plugged and screwed to tiled walls.	*no.*	2		
3	"Bobrick B 72860" or equal approved surface mounted roll paper towell dispenser fixed to tiled walls.	*no.*	41		
4	"Rubbermaid" or equal approved black & chrome automatic touch-free foam dispenser, size 1320 x 276 x 134mm.	*no.*	17		
5	"Xlerator" or equal approved brushed stainless finish automatic hand dryer, size 241 x 322 x 170mm.	*no.*	17		
	Carried to Collection			**$**	
	BILL NO. 7 **JOINERY AND IRONMONGERY** **COLLECTION**				
	Total BROUGHT FORWARD from Page Number		**Page**		**Amount**
			86		
			87		
			88		
	BILL NO. 7 **JOINERY AND IRONMONGERY** **CARRIED TO SUMMARY**			**$**	

Item No		Unit	Quantity	Rate	Amount
	BILL NUMBER 8				
	METALWORK				
	(For Preambles see General Specification)				
	DOOR FRAMES				
	Standard full profile primed pressed steel door frames with chromium plated striking plates where appropriate (building elsewhere measured)				
	To suit half brick wall (plastered both sides) for:				
1	44 mm Door size overall 900 x 2100mm high.	*no*	34		
2	Ditto size overall 1650 x 2100mm high.	*no*	32		
	To suit one brick wall (plastered both sides) for:				
3	44 mm Door size overall 900 x 2100mm high.	*no*	5		
4	Ditto size overall 1650 x 2100mm high.	*no*	2		
	GLAZED ALUMINIUM DOORS AND WINDOWS FRAMES				
	Purpose made glazed natural anodised rolled aluminium section doors with and including 6.38mm tinted laminated glazing, all ironmongery, erected, adjusted, and fixed in position.				
5	Sliding door unit size overall 900 x 2100mm high comprising one sliding leave with two lever slim style lockset (D31).	*no.*	1		
6	Sliding door unit size overall 1905 x 2100mm high comprising two equal sliding leaves and one fixed, complete with two lever slim style lockset (D21).	*no.*	3		
7	Purpose made pressed aluminium double door size overall 3294 x 2400mm high comprising two fixed side light size 747 x 2400mm high, suitable for one brickwall plastered both sides complete with two lever mortice lockset.	*no.*	1		
8	Ditto double door size overall 3405 x 3130mm high comprising two fixed side lights size 803 x 2400mm high, comprising three fixed fanlight over overall size 3405 x 730mm high suitable for one brickwall plastered both sides complete with two lever mortice lockset (D09).	*no.*	2		
	Carried to Collection			**$**	

Item No		***Unit***	***Quantity***	***Rate***	***Amount***
1	Purpose made pressed aluminium double door size overall 3598 x 2625mm high comprising one fixed side lights size 1798 x 2400mm high, comprising two fixed fanlight over overall size 3598 x 225mm high suitable for one brickwall plastered both sides complete with two lever mortice lockset (D14).	*no.*	1		
2	Ditto double door size overall 3411 x 2625mm high comprising one fixed side lights size 1611 x 2400mm high, comprising two fixed fanlight over overall size 3411 x 225mm high suitable for one brickwall plastered both sides complete with two lever mortice lockset (D16).	*no.*	2		
3	Folding door with twelve equal sliding leaves, size 9677 x 2100mm high (D35).	*no*	2		
	ALUMINIUM WINDOWS AND FRAMES				
	Purpose made glazed bronze anodised aluminium framed windows with and including 6.38mm laminated glass single glazing. The whole erected, adjusted, and fixed into position by approved specialist.				
4	Window in two panes size overall 2091 x 3130mm high. (W01)	*no*	1		
5	Ditto in nine panes size overall 3309 x 3130mm high. (W02)	*no*	1		
6	Ditto in four panes size overall 2778 x 3130mm high. (W03)	*no*	3		
7	Ditto in nine panes size overall 3411 x 3130mm high. (W04)	*no*	10		
8	Ditto in two panes, size overall 1536 x 1730mm high. (W05)	*no*	1		
9	Ditto in six panes size overall 2888 x 1730mm high. (W06)	*no*	3		
10	Ditto two panes, size overall 966 x 1662mm high. (W07,W08,W09,W10,W12,W16).	*no*	7		
11	Ditto in two panes, size overall 480 x 1200mm high. (W11,W13)	*no*	21		
12	Ditto in one pane, size overall 1658 x 2700mm high. (W14)	*no*	3		
13	Ditto in one pane, size overall 1832 x 2700mm high. (W15)	*no*	3		
14	Ditto in one pane, size overall 3905 x 617mm high. (W17)	*no*	1		
	Carried to Collection			**$**	
Item No		***Unit***	***Quantity***	***Rate***	***Amount***

1	Window in one pane, size overall 3961 x 617mm high. (W18)	*no*	1	
2	Ditto in one pane, size overall 3790 x 617mm high. (W19)	*no*	2	
3	Ditto in one pane, size overall 1500 x 900mm high. (W20)	*no*	1	
4	Ditto in six panes, size overall 3830 x 2300mm high. (W21)	*no*	1	
5	Ditto in three panes, size overall 900 x 1200mm high. (W22,W28,W30)	*no*	8	
6	Ditto in six panes, size overall 1822 x 2300mm high. (W23)	*no*	2	
7	Ditto in one pane, size overall 1950 x 2300mm high. (W24)	*no*	4	
8	Ditto in nine panes, size overall 3416 x 2300mm high. (W25)	*no*	51	
9	Ditto in six panes, size overall 1822 x 2300mm high. (W26)	*no*	1	
10	Ditto in four panes, size overall 1430 x 1200mm high. (W27)	*no*	3	
11	Ditto in six panes, size overall 1822 x 2300mm high. (W29)	*no*	1	
12	Ditto in six panes, size overall 2185 x 2300mm high. (W31)	*no*	1	
13	Ditto in six panes, size overall 2803 x 2300mm high. (W32,W34)	*no*	1	
14	Ditto in six panes, size overall 2185 x 2300mm high. (W33)	*no*	1	
	CURTAIN WALL AND WINDOWS			
	Purpose made aluminium window and curtain walling, erected, adjusted and fixed in position.			
15	Butt glazed aluminium curtain walling fixed to wall and columns, glazed with and including 6.8mm clear glass.	m^2	253	
	Carried to Collection			**$**

BILL NO. 8
METALWORK
COLLECTION

Total BROUGHT FORWARD from Page Number	**Page**		**Amount**
	89		
	90		
	91		
BILL NO. 8 **METALWORK** **CARRIED TO SUMMARY**		**$**	

Item No		Unit	Quantity	Rate	Amount
	BILL NUMBER 9 **PLASTERING AND WALL LININGS** ***(For Preambles see General Specification)***				
	EXTERNALLY				
	One coat cement/ sand plaster (1:4) as described including all labours with a fine woodfloat finish on.				
1	Walls, etc.	m^2	230		
2	Columns	m^2	165		
3	Sides of beams in narrow widths.	m^2	140		
4	Walls, cills, reveals etc. in narrow widths.	m^2	45		
	Render one coat cement/ sand plaster (1:4) and set in Rhinoset plaster including all labours with a steel float finish on:				
5	Walls.	m^2	922		
6	Walls, reveals, etc in narrow widths	m^2	67		
7	Sides and soffits of beams in narrow widths.	m^2	219		
	Render in Rhinobond and set in Rhinoset plaster including all labours with a stee float finish on:				
8	Plasterboard ceilings.	m^2	78		
9	Ditto bulkhead ceilings.	m^2	46		
	WALL TILING.				
	Ceramic wall tiles ***(Prime Cost sum of $10.00/m2)***				
10	Walls.	m^2	1,250		
11	Walls, reveals, etc in narrow widths	m^2	164		
	Sundries				
12	Aluminium trimmer between tile and plaster junction.	*m*	26		
13	150 x 150mm "Vaal" type soap dish and setting in and including pocket in tiled wall.	*no*	60		
	VENTILATION				
14	230 x 150mm Cast plaster internal louvred air bricks with fine copper wire gauze at the back including forming flue through and building into brick wall flash with plaster.	*no*	16		
	BILL NO. 9 **PLASTERING AND WALL LININGS** **CARRIED TO SUMMARY**			**$**	

Item No		***Unit***	***Quantity***	***Rate***	***Amount***
	BILL NUMBER 10				
	PAVING AND FLOOR COVERINGS				
	(For Preambles see General Specification)				
	SCREEDS				
	Cement and sand (1:4) screeds as described				
1	40mm Screed to receive porcelain floor tiles.	m^2	2487		
2	40mm Screed to receive ceramic floor tiles.	m^2	541		
3	40mm Screed to receive waterproofing.	m^2	307		
	GRANOLITHIC FLOOR				
4	Make good existing granolithic floor.	m^2	5		
	THE FOLLOWING SUPPLIED AND LAID BY AN APPROVED FIRM OF SPECIALISTS WITH AN ADHESIVE TO SCREED INCLUDING ALL SQUARE CUTTING				
	Porcelain floor tiles				
	Porcelain floor tiles on screed (elsewhere measured) ***(Prime Cost Sum of $15.00/m2)***				
5	Floors.	m^2	2487		
6	100 mm High skirting with square top edge, including mitres, etc.	*m*	2610		
	Ceramic floor tiles				
	Ceramic non-slip floor tiles on screed (elsewhere measured) ***(Prime Cost Sum of $12.00/m2)***				
7	Floors.	m^2	541		
8	100 mm High skirting with square top edge, including mitres, etc.	*m*	125		
	BILL NO. 10 **PAVING AND FLOOR COVERINGS** **CARRIED TO SUMMARY**			**$**	

Item No m		***Unit***	***Quantity***	***Rate***	***Amount***
	BILL NUMBER 11				
	PLUMBING AND DRAINAGE (PROVISIONAL) ***(For Preambles see General Specification)***				
	RAINWATER DISPOSAL AND FLASHINGS				
	"Promat" or equal rigid P.V.C (Class 16) piping with solvent cement joints and fittings as described				
1	110mm Diameter PVC rainwater downpipe cast into concrete column	*m*	97		
2	Extra over for eaves offset 800mm girth.	*no*	6		
3	Extra over for bend.	*no*	6		
	"Fulbore" type mild steel or cast iron rainwater outlets and gratings including bolting down gratings.				
4	100mm "Fulbore" outlet cast into concrete.	*no*	6		
	SANITARY FITTINGS				
	SANITARYWARE				
5	"Verse" Code K-RH5267-4 or similar approved stainless steel with double equal bowl sink with 4no. for faucet holes, size 838 x 559mm wide overall, fitted in worktop with and including 40mm chromium plated waste, plug, stay and chain and joint to water supply and waste pipes.	*no.*	1		
6	"Verse" Code K-RH5267-4 or similar approved stainless steel single bowl and drainer sink , size1000 x 559mm wide overall, fitted in worktop with and including 40mm chromium plated waste, plug, stay and chain and joint to water supply and waste pipes.	*no.*	2		
7	"Everhard 6L Circo Stainless Steel"Code 70088 or similar approved stainless steel vegetable bowl size 300mm diameter x 235mm depth, fitted in worktop with and including 40mm chromium plated waste, plug, stay and chain and joint to water supply and waste pipes.	*no.*	7		
8	Vaal Sanitaryware ""Orchid Paraplegic" back inlet (code 439016) 90° flush valve wall hung open rim pan or similar approved vitreous china wash down pan complete with Jazz thermoset seat (code 8531Z0) or Buxton Sta-tite seat (Parker code 411 -65533), DPI Flushfit, Marley SG47 pan collar fixed to floors with and including floor brackets (code 8082Z0). ***(Prime cost sum US$150.00)***	*no.*	3		
	Carried to Collection			**$**	

Item No		***Unit***	***Quantity***	***Rate***	***Amount***
1	Vaal Sanitaryware "Orchid" or equal approved viteous china close coupled 90° outlet wall hung open rim pan (code 438600) with and including matching Jaz double flap thermal seat, matching 6 litre pushbutton top dual flush back inlet cistern (code 4386DT) complete with lid fitments fix to floors with and including floor brackets (code 8082Z0). ***(Prime cost sum US$150.00)***	*no.*	38		
2	Vaal Sanitaryware "Trento Electronic Urinal " Code 5427201V or equal approved white glazed vitreous china urinal bowl overall size 385 x 380x 600mm high with and including top inlet electronic wall mounted infra sensor including 38mm chromium plated domical grating ,spreader and two hanger brackets and valve and connect up. ***(Prime cost sum US$180)***	*no.*	16		
3	Vaal Sanitaryware "Alto Art" or equal approved white glazed vitreous china vanity basin size 475 x 370 x 130mm high surface mounted basin with chromium plated waste outlet and captive plug, set on vanity slab (elsewhere measured) and connect up. ***(Prime cost sum US$110)***	*no.*	44		
4	1000 x 1000 x 150mm high Acrylic shower tray.	*no.*	2		
5	Cobra code: 3338SB026-065 shower set or equal approved chromim plated shower set comprising of shower rose, shower arm and shower mixing valve. ***(Prime cost sum US$130.00)***	*no.*	2		
6	2mm Stainless Steel rear grab rail (code Sr1)	*no.*	3		
7	32mm Stainless Steel side grab rail (code Dl2)	*no.*	3		
	WASTE DISPOSAL				
	" Promat " or equal rigid P.V.C (Class 16) piping with solvent cement joints and fitting as described				
8	50mm Pipe fixed to walls.	*m*	13		
9	50mm pipe fixed to walls including chasing.	*m*	82		
10	50mm Pipe to walls In ducts.	*m*	49		
11	50mm in fill under floors	*m*	9		
12	50mm Pipe fixed to soffit of slabs.	*m*	67		
13	75 mm Diameter pipe fixed to walls in ducts.	*m*	25		
14	110 mm Diameter pipe fixed to soffit of slabs	*m*	5		
15	110 mm Diameter pipe fixed to walls.	*m*	36		
16	110mm Pipe to walls In ducts.	*m*	48		
	Carried to Collection			**$**	

Item No		***Unit***	***Quantity***	***Rate***	***Amount***
1	110mm Drain pipe laid in trench including excavations and back filling in duct.. etc.	*m*	16		
	Extra on P.V.C. pipe for fittings:				
2	50 mm Inspection bend.	*no.*	98		
3	50 mm Bend.	*no.*	46		
4	50 mm Junction.	*no.*	29		
5	50 mm Inspection Junction.	*no.*	54		
6	50 mm Cross.	*no.*	6		
7	75mm Reducing junction.	*no.*	23		
8	110 mm Bend.	*no.*	5		
9	110 mm Inspection bend.	*no.*	48		
10	110mm Junction	*no.*	2		
11	110mm Inspection Junction.	*no.*	47		
12	110 mm Inspection reducing junction 90$^{o.}$	*no.*	45		
13	110 mm Inspection reducing junction.	*no.*	33		
14	110mm End cap.	*no.*	18		
15	110 mm Rodding eye and cover.	*no.*	2		
16	110 mm Two way vent valve.	*no.*	4		
17	110 mm Bend pan connector.	*no.*	4		
18	110 mm Straight pan connector.	*no.*	43		
	Traps				
19	38-50mm Double deep seal "S" or "P" trap.	*no.*	1		
20	38-50mm Deep seal "S" or "P" trap.	*no*	58		
21	38-40mm Chromium plated bottle traps	*no*	15		
22	40mm Shower trap with chromium plated grating.	*no*	2		
	Carried to Collection			**$**	

Item No		***Unit***	***Quantity***	***Rate***	***Amount***
	Sundries				
	GULLEYS				
1	190 x110mm Dished gulley with trap and grating and joint to 110mm upvc pipes including encasing in concrete (Grade 10-20mm stone) carried up as kerb 75 mm high above ground level and dished to grating including necessary formwork an finish smooth on all exposed faces.	*no.*	5		
	WATER INSTALLATION				
	Connection				
2	Excavate in pickable material not exceeding 1 metre deep for and cut into 50mm diameter steel main for and provide and insert 50 mm tee and joint to new 54mm diameter HDPE service including any necessary additionalfittings and return fiil and ram.	*no.*	1		
3	Allow for making arrangements with the Local Authority for and providing new 54mm diameter metered water connection, pay all charges and joint new upvc service.	*no.*	1		
	Galvanised mild steel pipe as described .				
	50mm Pipe fixed to walls in duct	*m*	29		
	Extra over galvanised mild steel pipes for fittings.				
4	50mm Bend	*no.*	5		
5	50mm Couplin	*no.*	5		
	Hot and Cold Water Installation *Cold water service pipes to:* *Copper pipes as described to BS 2571 Part 1 Table X Or BS 6700* *Hot water service pipes to:* *Copper pipes as described to BS 2571 Part 1 Table X Or SABS 460*				
6	15 mm Diameter pipe fixed to walls in and including chasing.	*m*	117		
7	22 mm Pipe fixed to walls in ceiling void.	*m*	170		
8	22 mm Pipe fixed to walls.	*m*	7		
9	22mm Diameter pipe fixed to walls in and including chasing.	*m*	83		
10	28mm Diameter pipe fixed to walls in ceiling void.	*m*	4		
11	28mm Diameter pipe fixed to walls in duct	*m*	32		
12	35mm Diameter pipe fixed to walls in duct.	*m*	30		
	Carried to Collection			**$**	

Item No		***Unit***	***Quantity***	***Rate***	***Amount***
1	54mm Diameter pipe fixed to walls in duct.	*m*	27		
	Extra over copper pipes for fittings.				
2	22mm Bend.	*no.*	30		
3	22 mm Reducing bend	*no.*	35		
4	22mm Tee.	*no.*	14		
5	22mm Reducing Tee.	*no.*	33		
6	28mm Reducing Tee.	*no.*	8		
7	28mm couplin.	*no.*	5		
8	35mm Reducing Tee.	*no.*	7		
9	35mm couplin.	*no.*	6		
10	54mm Bend.	*no.*	4		
11	54mm Reducing Tee.	*no.*	14		
12	54mm couplin.	*no.*	6		
	Water Heaters *Solar water heaters to SAZ standards complete with temperature control mixing and pressure relief valves* *"Kwikot" or equal approved hot water geysers with electrical back up*				
13	200 Litre roof mounted solar hot water tank including all necessary frames and mounting to concrete roofds and connect up.	*no.*	10		
	Brasswork				
14	15mm Flexible connector 300 mm girth with angle valve .	*no.*	108		
	Note: All faucetes to the aprproval of the Architect: Contractor to provide samples to the Arhitect for approval.				
15	Chromium plated sink mixer and joint to copper pipes. ***(Prime cost sum US$130)***	*no.*	3		
16	Chromium plated vegetable basin mixer ***(Prime cost sum US$95)***	*no.*	7		
17	15mm Wash hand basin mixing valve and joint to copper pipes. ***(Prime cost sum US$90)***	*no.*	42		
18	15mm Shower mixer and joint to copper pipes. ***(Prime cost sum US$120)***	*no.*	2		
	Carried to Collection			**$**	

Item No		***Unit***	***Quantity***	***Rate***	***Amount***
1	Flushmaster FM1.100 with C-FM8.80 extension lever, or equivalent.	*no.*	3		
2	22mm Kent or equal approved water meter and joint to pipe.	*no.*	1		
	Brasswork				
3	15mm Ball cock.	*no.*			
4	25mm Ball cock.	*no.*	14		
5	28mm Brass stop valve.	*no.*	2		
6	35mm Ball cock.	*no.*	2		
7	50mm Brass wheel head gate valve.	*no.*	4		
	Fire Appliances				
8	4.5 Kilogram dry powder fire extinguisher, charge and place in position on and including bracket plugged and screwed to wall.	*no.*	6		
9	9 litre approved CO2 fire extinguisher, charge and place in position on and including bracket plugged and screwed to wall.	*no.*	6		
	BUILDER'S WORK IN CONNECTION WITH PLUMBING AND ASSOCIATED SERVICES				
10	Saw cutting in 150mm thick concrete slab.	*m*	17		
11	Ditto for 20omm thick concrete slab.	*m*	25		
12	Core drilling 200 mm thick for small pipe.	*no*	8		
13	Ditto for large pipe.	*no*	5		
	Leave or form hole for pipe through :				
14	Half brick wall for small pipe.	*no.*	150		
15	One brick wall for small pipe.	*no.*	200		
16	Ditto for large pipe.	*no.*	44		
	TESTING				
17	Allow for testing the whole of the Plumber's work included in this Bill, make good all defects and retest until approved, no trenches are to be filled until approved.	*item*			
	Carried to Collection			**$**	

BILL NO. 11
PLUMBING AND DRAINAGE (PROVISIONAL)
COLLECTION

Total BROUGHT FORWARD from Page Number	**Page**		**Amount**
	95		
	96		
	97		
	98		
	99		
	100		
BILL NO. 11 **PLUMBING AND DRAINAGE (PROVISIONAL)** **CARRIED TO SUMMARY**		**$**	

Item No		***Unit***	***Quantity***	***Rate***	***Amount***
	BILL NUMBER 12				
	GLAZING ***(For Preambles see General Specification)***				
	MIRRORS				
1	6 mm Clear float quality glass silvered and sealed mirror with polished edges sprayed on back with clear lacquer before fixing, drilled for and plugged and screwed to tiled walls with and including chromium plated capped mirror screws and rubber washers, size 1000 x 1500mm.	*no.*	44		
	BILL NO. 12 **GLAZING** **CARRIED TO SUMMARY**			**$**	

Item No		Unit	Quantity	Rate	Amount
	BILL NUMBER 13				
	PAINTING				
	(For Preambles see General Specification)				
	PAINTWORK ETC TO PREVIOUSLY PAINTED WORK				
	Prepare, stop and apply one undercoat and two finishing coats washable external quality PVA paint externally on:				
1	Wood float plastered walls.	m^2	1,265		
2	Walls reveals ,etc in narrow widths.	m^2	167		
	Prepare and apply three coats internal quality P.V.A emulsion paint internally on:				
3	Steel trowel plastered walls, beams, columns etc.	m^2	2207		
4	Walls reveals ,etc in narrow widths.	m^2	205		
	Brick dressing				
	Clean down and apply one coat prime and two finishing coats brick				
5	Face brick walls.	m^2	1,173		
6	Ditto window cills.	*m*	160		
	ON METAL				
	Protective Coatings				
	PAINTWORK ETC TO NEW WORK				
	ON PLASTER, ETC				
	Prepare and apply three coats external quality P.V.A emulsion paint externally on:				
7	Fine woodfloat plastered walls.	m^2	230		
8	Walls, reveals, cills, etc. in narrow widths.	m^2	45		
9	Side of rectaunglar columns	m^2	62		
10	Sides of beams in narrow widths.	m^2	219		
	Prepare and apply three coats internal quality P.V.A emulsion paint internally on:				
11	Steel trowel plastered walls, beams, etc.	m^2	922		
	Carried to Collection			**$**	

Item No		***Unit***	***Quantity***	***Rate***	***Amount***
1	Walls, reveals, cills etc in narrow widths.	m^2	67		
2	Sides of beams in narrow widths.	m^2	140		
3	Ceiling white to steel float plasterboard ceilings.	m^2	78		
	ON METAL				
	Protective Coatings				
	Touch up manufacturer's priming coat and apply one undercoat and two finishing coats high gloss enamel paint on:				
4	Galvanised eaves gutter (in-side out) (provisional).	m^2	56		
5	Galvanised rainwater downpipe (externally)(provisional).	m^2	35		
6	Steel door frames.	m^2	205		
	ON WOOD, ETC.				
	Prepare, knot prime, stop one undercoat and two finishing coats				
7	Timber doors	m^2	236		
	LEAVE CLEAN				
8	Allow for touching up all work through out, clean off all paint, oil, cement, or other stains or marks on walls, floors, ceilings, glass, etc., and leave all surfaces in full and proper working order.	*Item*			
	Carried to Collection			$	
	BILL NO. 13 **PAINTING** **COLLECTION**				
	Total BROUGHT FORWARD from Page Number		**Page**		**Amount**
			103		
			104		
	BILL NO. 13 **PAINTING** **CARRIED TO SUMMARY**			$	

Item			Quantity	Rate	Amount
	BILL NUMBER 14				
	EXTERNAL WORKS (PROVISIONAL)				
	(For Preambles see General Specification)				
1.00	***PARKING & DRIVEWAYS***				
	For preambles see the relevant section of the specification included elsewhere in this document and applicable additional preambles as specified in the trades				
	The responsibility for achieving compaction densities specified and for obtaining suitable fill material from appropriate source rests solely with the contractor. The rates shall be deemed to include for all costs in connection therewith.				
	SITE CLEARANCE				
1	Clear site of all vegetation, including removal and disposal of bushes, shrubs, undergrowths, hedges, trees and stumps not exceeding 0.50 mtres girth, and grubbing up roots and filling in holes.	*m2*	2,465		
2	Removal of trees, girth exceeding 0.5 m but not exceeding 1.00 m.	*no.*	15		
3	Removal of trees, girth exceeding 1.0 m but not exceeding 2.00 m.	*no.*	4		
	EXCAVATIONS				
	Excavate in pickable earth below natural or reduced ground level and				
	excavated material to be cart away to a site to be found by Contractor				
4	Excavate to reduce levels not exceeding 300 mm deep.	*m3*	740		
5	Cart away surplus excavated material to a dump site to be found by Contractor (Contractor to allow for bulking).	*m3*	740		
6	Extra over all excavations for excavating in soft rock.	*m3*	74		
7	Extra over all excavations for excavating in hard rock.	*m3*	37		
8	Allow for keeping the excavations free from storm and surface water for the duration of Contract by hand or machinery, including digging any necessary trenches or forming banks to keep water away from the foundations.	*Item*			
	Carried Forward			**$**	

Item			***Quantity***	***Rate***	***Amount***
	Brought Forward				
	Roads and parking				
1	Scarify ground to a depth of 150mm and compact to 93% H.C.E density.	*m2*	960		
	Base 1				
2	150 mm Thick base course gravel filling as described maximum 150mm layers compacted to 98% H.C.E density make up levels.	*m3*	144		
	Base 2				
3	150 mm Thick bed of selected imported sub- material; as described and compact to 95% H.C.E density, etc	*m3*	144		
4	150 mm Thick bed of selected imported sub- material; as described and compact to 95% H.C.E density, etc in parking islands.	*m3*	960		
	Paving				
	80mm Heavy duty " Gee-block"interlocking roadstone paviors				
5	Paving to falls and cross falls laid herringbone pattern at 45° to dominant traffic flow.	*m ²*	960		
6	Extra over for circular cutting.	*m*	30		
	KERBING				
	Precast concrete kerbs finished fair on all exposed faces, lay to required lines and levels, bed , point and joint in cemenet mortar (1:4)				
7	150 x 330 mm High half battered kerb 1000 mm with and including cement concrete garde 10- 20mm stone base 300 mm wide and 100mm thick well haunched up at back including all necessary excavations formwork and cart surplus excavated materils off site.	*m*	225		
8	Ditto circular on plan to flat sweep	*m*	5		
9	395 x 250 mm High mountable kerbs, ditto circular on plan to flat sweep	*m*	30		
10	Allow for supplying, delivering, fixing to position and painting of municipal kerbing to junctions .	*m*			
	Carried Forward			**$**	

Item			***Quantity***	***Rate***	***Amount***
	Brought Forward				
	ROAD SIGNS				
	Provide and erect traffic signs such as:				
1	i) DRIVEWAY/ YIELD SIGNS	*no.*			
2	ii) STOP SIGNS	*no.*	1		
3	iii) Allow for any other traffic signs as directed by the Resident Engineer.	*no.*			
	Repairs to Existing Asphalt Paved Area (Provisional)				
4	Clear site of all vegetation, including removal and disposal of bushes, shrubs, undergrowths, hedges, trees and stumps not exceeding 0.50 mtres girth, and grubbing up roots and filling in holes on the existing surfaced areas.	*m2*	1,903		
5	Break up existing brickwork and cart off site	*m2*	120		
6	Fill up pot holes as directed by Engineer to match existing surfaced areas	*m2*	120		
	ROAD MARKINGS				
	Prepare and apply two coats non-reflective bright white traffic paint on precast concrete surfaces for the following:				
7	Continuous lines 100mm wide.	*m*	179		
8	Direction arrows 200mm wide.	*m*	26		
9	Alternating black and white paint to edge beams.	*m* ²	20		
10	International STOP-sign.	*no.*	1		
	Parking and Driveway Total Carried to External Works Collection			**$**	

Item			***Quantity***	***Rate***	***Amount***
2.00	**STORMWATER DRAINAGE**				
1	Supply and deliver stormwater pipe culverts Excavate for, lay, provide concrete bedding concrete grade 20 as surround, joint, return fill fill and compact for same. Maximum width of trench to be nominal pipe diameter plus 500mm and not exceeding 1.5m in depth for:				
2	600mm diameter pipes class 20D	*m*	60		
3	Provide all materials and build complete Culvert Headwalls (two headwalls per culvert), approach and outfall approns, for all pipe diameters. Allow for shuttering, chamfers and building in pipes with grade 20 concrete all to the satisfaction of the Resident Engineer.	*no.*	6		
	Supply and deliver pvc stormwater pipes. Excavate for, lay, fill and compact for same. Maximum width of trench to be nominal pipe diameter plus 500mm and not exceeding 1.0m in depth for:				
4	i) 110mm Diameter pvc pipes class 12	*m*	40		
5	ii) 250mm Diameter pvc pipes class 12	*m*	18		
6	Supply all materials and build complete in grade 20 concrete all lining to trapezoidal drains in alternate bays 3.0m long. Include for construction of bends, tapers and 50mm dia weep holes where directed as well as for shuttering and all other materials necessary to construct the lined drains as shown in the standard specification drawing.	*m*	200		
	Stormwater Drainage Total Carried to External Works Collection			**$**	

Item			***Quantity***	***Rate***	***Amount***
	SEWERAGE RETICULATION				
1	Setting out of sewer line.	*m*	120		
	EXCAVATION				
	Excavate trenches for 110m sewer pipes, 500mm wide for the following depths and allow for backfilling of all pipes.				
2	0 - 1m Deep	*m3*	21		
3	1 - 2m Deep	*m3*	45		
4	2 - 2.5m Deep	*m3*	3		
	Excavate trenches for 160m sewer pipes, 750mm wide for the following depths and allow for backfilling of all pipes.backfilling of all pipes.				
6	0 - 1m Deep	*m3*	32		
7	1 - 2m Deep	*m3*	7		
8	2 - 2.5m Deep	*m3*	2		
9	more than 2.5m Deep `	*m3*	1		
10	Extra over for hard material excavation	*m3*	11		
11	Extra over for rock excavation provisional)	*m3*	5		
	PIPE LAYING				
	Allow for placing imported material for bedding and for bedding and backfilling along the pipeline and for spreading spreading surplus material				
12	Imported bedding material	*m3*	15		
	Supply, deliver, lay in Type D bedding unless otherwise specified and joint and test sewer reticulation pipes.				
13	i) 110 mm Diameter PVC Sewer Pipes	*m*	123		
14	ii) 160 mm Diameter PVC Sewer Pipes	*m*	71		
	Carried Forward			**$**	

Item			***Quantity***	***Rate***	***Amount***
	Brought Forward				
	PIPE FITTINGS CONNECTIONS				
	Supply, bed, lay and joint all fittings and specials for:				
	(Rate to include for all ancillary works, such as trace wires, etc)				
1	110mm pipe fittings				
2	110mm Y-Junction	*no.*	9		
3	110mm inspection Y-Junction	*no.*	8		
4	110mm Double inspection-Junction	*no.*	2		
5	110 x 135* PVC rodding eye and cover	*no.*	5		
6	110 x 135* Inspection Bend	*no.*	2		
7	110 x 135* Plain Bend	*no.*	10		
8	160mm Y-Junction	*no.*	2		
9	160mm inspection Y-Junction	*no.*	2		
10	160 x 135* Plain Bend	*no.*	4		
11	160 Reducing junction	*no.*	2		
12	110 mm Gulley trap, head and concrete surround	*no.*			
	MANHOLES				
	Excavate for manholes as specified.				
	Supply and install all materials for the construction of manholes using approved concrete manhole rings of manholes using approved concrete manhole rings. Include for the construction of bases and suitable heavy duty cast iron cover lids for: 900 diameter manhole				
13	Depth not exceedig 1m	*No.*	2		
14	Depth exceeding 1m but less than 2m	*No.*	1		
15	Allow for the provision of concrete surround to pipes where cover to crown is less than 600mm & where pipes cross roads.	*m*	10		
	Carried Forward			**$**	

Item			***Quantity***	***Rate***	***Amount***
	Brought Forward				
	Connection				
1	Locate existing sewer main drain, excavate not exceeding 2 meters deep, cut into same, provide and insert new junction including any necessary additional fittings.	*item*			
	Sewerage Reticulation Total Carried to External Works Collection			**$**	

Item			***Quantity***	***Rate***	***Amount***
3.00	**WATER RETICULATION**				
	WATERLINE EXCAVATIONS				
1	Setting out water line.	*m*	100		
2	Excavate 600mm wide by 750mm deep and backfill trenches for all water reticulation pipework.	*m3*	45		
3	Extra over for hard material excavation	*m3*	5		
4	Extra over for rock excavation	*m3*	3		
5	Extra over for excavation of 600mm wide by 1200mm deep and backfilling at all road crossings, include for controlled compaction and restoring the road back to its original state.	*m3*	2		
	PIPE LAYING				
	Allow for placing imported material for bedding and backfilling along the pipeline and for spreading surplus material.				
6	Imported bedding material	*m3*	36		
	Supply, deliver, lay in bedding for flexible pipes, joint, pressure test and sterilise with suitable reagents to the satisfaction of the Engineer :				
7	75mm Diameter uPVC Class 16 pipes	*m*	100		
	PIPE FITTINGS				
	Supply, install pipe fittings:				
8	75mm - Bend	*No.*	5		
9	75 mm Equal Tee	*No.*	1		
10	75mm x 50mm Reducer	*No.*	1		
11	75mm End Cap	*No.*	1		
	Supply,deliver and install GATE VALVES including all fittings necessary, valve markers and suitable valve chamber as directed by the Engineer for the following pipe diameters				
12	75mm Diameter.	*No*	4		
	Carried Forward			**$**	

Item			***Quantity***	***Rate***	***Amount***
	Brought Forward				
	Supply,deliver and install NON RETURN VALVES including all fittings necessary, valve markers and suitable valve chamber as directed by the Engineer for the following pipe diameters				
1	75mm Diameter.	*No*	2		
	Supply,deliver and install WATER METERS including all fittings necessary, markers and suitable valve chambers as directed by the Engineer for the following pipe diameters				
2	75mm Bulk water meters	*No*	1		
3	Supply all materials and construct anchor blocks on all bends, tees, end caps, junctions and as directed by the engineer using Grade 20/19 concrete. The rate to include for all necessary shuttering and finishing to lines and levels as indicated on the standard drawing (include all necessary jointing material).	*m3*	1		
4	Supply, deliver and install all materials for connection into existing main water line.	*Item*			
	Water Reticulation Total Carried to External Works Collection			**$**	

Item			***Quantity***	***Rate***	***Amount***
4.00	**BOUNDARY WALLS**				
	FOUNDATIONS (PROVISIONAL)				
	EXCAVATION				
1	Excavate over site to remove vegetable soil average 150 mm deep and deposit on site not exceeding 200 metres, spread and level on site where directed.	m^2	211		
2	Excavate in earth for surface trenches not exceeding 2m deep including trimming sides and levelling and ramming bottoms.	m^3	127		
3	Extra over excavation in earth for excavation in soft rock.	m^3	34		
4	Ditto in hard rock.	m^3	17		
	Pumping				
5	Allow for keeping the excavations free from storm, surface water and mud by pumping and baling.	*Item*			
	Planking and strutting				
6	Allow for maintaining and supporting sides of all excavations and making good all slips.	m^2	367		
	Disposal				
7	Redig from spoil heap, return, fill and well compact selected excavated material around foundations, in layers not exceeding 150mm thick.	m^3	32		
8	Cart away excavated material.	m^3	95		
9	Scarify and compact bottom of excavations.	*m2*	211		
	TERMITES				
10	Termite treatment as described to top of filling and walls.	m^2	211		
	CONCRETE				
	Concrete Grade 25 (20mm stone) in				
11	Footings	m^3	49		
	Carried to Collection			**$**	

Item			***Quantity***	***Rate***	***Amount***
	BRICKWORK Brickwork in hard burnt common bricks in Class 'B' mortar				
1	One brick wall	m^2	198		
2	460 X 460mm Brick piers	*m3*	10		
	REINFORCEMENT				
	Welded fabric reinforcement of approved manufacture including all cutting, tying, placing in position with necessary temporary supports and minimum 300mm laps both ways (measured nett)				
3	Cotts' Ref. C2 or other equal and approved mesh brick reinforcement lapped at all angles and junctions and built into one brick walls (measured nett).	*m*	776		
	Mild and high tensile steel reinforcement to concrete including all bending, hooked ends, binding wire and temporary supports.				
4	Steel bar reinforcement (All sizes)	*kg*	4,165		
	Expansion Joints				
5	10mm Kaylite or equal approved joint filler between brick walls in narrow widths (provisional).	*m2*	44		
	Carried to Collection			**$**	
	Collection Page				**Amount**
	Total collected from page		114		
			115		
	Foundations Total Carried to Boundary Wall Summary			**$**	

Item			***Quantity***	***Rate***	***Amount***
	CONCRETE, FORMWORK & REINFORCEMENT				
	PRECAST CONCRETE				
	Precast Concrete Coping				
1	380 x 50mm (Extreme) twice weathered and twice throated, coping cast into suitable lengths, hoisted, bedded and pointed in cement mortar on top of one brick walls.	*m*	275		
2	610 x 610 x 50mm (Extreme) Weathered and throated all round, coping , hoisted, bedded and pointed in cement mortars on brick piers.	*no.*	67		
	Concrete, Formwork & Reinforcement Total Carried to Boundary Wall Summary				
	BRICKWORK				
	BRICKWORK				
3	One brick wall	*m ²*	578		
4	460 x470mm Piers	*m3*	30		
	Cotts' or other equal and approved mesh brick reinforcement lapped at all angles and junctions (measured nett)				
5	Ref. C2 in one brick walls	*m*	1526		
	Damp Proofing				
6	One layer of three ply bituminous felt sheeting laid on walls, lapped and sealed at all angles and junctions on and including a bed of mortar trowelled smooth (measured nett).	*m2*	77		
7	Ditto laid under copings	*m2*	73		
	Facings				
8	Extra over common brickwork for facing bricks	*m ²*	707		
	Expansion Joints				
9	10mm Kaylite or equal approved joint filler between brick walls in narrow widths (provisional).	*m2*	129		
10	Rake out 10mm Kaylite or other equal approved filler for a depth of 10mm prime and seal with polysulphide sealer (vertically).	*m*	563		
	Brickwork Total Carried to Boundary Wall Summary			**$**	

Item			***Quantity***	***Rate***	***Amount***
	METALWORK				
	PRIMED MILD STEEL				
1	Mild steel sliding gate to specialist's detail (Provisional)	*no*	2		
	Metalwork Total Carried to Boundary Wall Summary				-
	PLASTERING AND WALL LININGS				
	PLASTERING				
	EXTERNALLY				
	One coat cement plaster as described including all labours with a fine woodfloat finish on				
2	Walls.	m^2	707		
	Plastering & Wall Linings Total Carried to Boundary Wall Summary				-
	PLUMBING & DRAINAGE				
	Upvc pipes to BS 4514 and SAZ K32				
3	50mm Diameter weep holes 300mm long through walls	*no*	22		
4	Leave or form hole for small pipe through one brickwall	*no*	22		
	Plumbing & Drainage Total Carried to Boundary Wall Summary				-

Item			***Quantity***	***Rate***	***Amount***
	PAINTING				
	ON PLASTER, ETC.				
	Prepare and apply three coats external quality P.V.A emulsion on				
1	Woodfloat plastered walls.	*m2*	707		
	ON METAL				
	Clean down, touch up priming coat and apply one undercoat and two finishing coats high gloss enamel paint on				
2	Sliding gate (Provisional)	*m2*	30		
	TOUCH UP				
3	Touch up and clean paint work , scrub floors and pavings, clean down glass and leave premises and site properly clean and the whole complete and ready for occupations.	*Item*			
	Painting Total Carried to Boundary Wall Summary			**$**	-
	SPECIALIST SERVICES				
4	Allow the sum of US$4, 600.00 (Four thousand six hundred dollars) for electrical installation.	*Sum*			
5	Allow for profit.	*0.5%*			
6	Allow for attendance.	*0.5%*			
	Specialist Services Total Carried to Boundary Wall Summary				-

Item		***Quantity***	***Rate***	***Amount***
	BOUNDARY WALL SUMMARY			
			Page.	**Amount**
	FOUNDATIONS (PROVISIONAL)		115	
	CONCRETE, FORMWORK AND REINFORCEMENT		116	
	BRICKWORK		116	
	METALWORK		117	
	PLASTERING AND WALL LININGS		117	
	PLUMBING AND DRAINAGE		117	
	PAINTING		118	
	SPECIALIST SERVICES		118	
	Boundary Walls Total Carried to External Works Collection		**$**	

Item			***Quantity***	***Rate***	***Amount***
5.00	**GUARD HOUSE**				
	FOUNDATIONS (PROVISIONAL)				
	SITE CLEARANCE				
1	Clear site of all rubbish, bushes, shrubs, undergrowth, hedges, small trees, stumps, roots, etc and cart off site.	*m²*	26		
	EARTHWORKS				
	EXCAVATION				
	Pumping				
2	Allow for keeping the excavations free from storm and surface water for the duration of the contract by hand or machinery, including digging any necessary trenches and banks to keep water away from the foundations.	*Item*	1		
	Excavate in pickable earth below natural or reduced level and excavated material to be cart away to a site to be found by the Contractor (cart away elsewhere measured).				
3	Excavate over site to remove vegetable soil average 150mm deep and deposit on site within 100 metres.	*m²*	20		
4	Bulk excavation to reduce levels not exceeding 300mm deep commencing from stripped ground level.	*m³*	5		
5	Excavate for surface trenches not exceeding 2 metres deep	*m³*	11		
	Extra over all excavations for excavating in materials as described, including any cost of additional disposal				
6	Extra over excavation in pickable material for excavation in hard pickable material.	*m³*	1.09		
7	Ditto in rock.	*m³*	0.54		
	PLANKING AND STRUTTING				
8	Allow for the risk of collapse by maintaining and supporting sides of all excavations and making good all slips.	*m²*	19		
	DISPOSAL				
9	Cart away surplus excavated materials to dump site to be found by Contractor (Contractor to allow for bulking).	*m³*	4		
	Carried Forward			**$**	

Item			***Quantity***	***Rate***	***Amount***
	Brought Forward				
	Filling, etc				
1	Backfilling to trenches, holes, etc. with approved excavated materials, levelled, well watered and compacted in layers not exceeding 150 mm thick to 93% HCE density.	m^3	4		
	FORMATION				
2	Scarify bottom of excavations maximum of 150 mm, water and compact mechanically to 95% HCE density	m^2	15		
3	Selected imported granular material supplied and carted to site by contractor spread, level and compact in maximum 150mm layers under floor slab to 96% HCE density.	m^3	2		
	Damp Proof Course.				
	One layer 250 Microns "Tarcon" polythene damp proof membrane150 mm wide, side and laps stapled at joints, laid on and including 50 mm sand bed.				
4	Under concrete surface beds.	m^2	13		
	One layer of two ply bituminous felt sheeting as damp proof course as described well lapped at joints and junctions (measured net)				
5	On one brick wall	m^2	3		
6	Half brick wall	m^2	1		
	TERMITES				
7	Termite treatment with approved fumigant to SAZS 314 (1973), sprayed over filling and tops of foundation walls. (Contractor to provide ten year guarantee as to the contents, quality and effectiveness of the termite treatment).	m^2	20		
	Carried Forward			**$**	

Item			***Quantity***	***Rate***	***Amount***
	Brought Forward				
	REINFORCEMENT.				
	Welded fabric reinforcement of approved manufacture including all cutting, tying, placing in position with necessary temporary supports and minimum of 300mm laps both ways (measured net).				
1	"Cotts Ref S125" mild steel mesh fabric reinforcement of approved manufacture weighing 1.25 kilograms per square metre minimum 300 mm laps both ways (measured nett) in slab.	m^2	13		
	CONCRETE				
	Mass Concrete(Grade 20- 20mm stone) in:				
2	Footings.	m^3	4		
	Reinforced Concrete (Grade 25- 20mm stone) in:				
3	Surface bed	m^3	2		
	Sundries.				
4	Strike off and cure top of concrete.	m^2	13		
	Expansion Joints				
5	10mm Kaylite expansion joint between surface bed and brick wall	m^2	2		
6	Rack out and apply 20DP plastic sealant	*m*	16		
	TESTING				
7	Allow for carrying slump tests when directed.	*Item*	1		
	BRICKWORK				
	Approved structural solid bricks (minimum compressive strength 12 Mpa) in 1:3 cement mortar in Stretcher bond.				
8	Half brick wall.	m^2	3		
9	One brick wall	m^2	13		
10	One and half brickwall	m^2	4		
	Carried Forward			**$**	

Item			***Quantity***	***Rate***	***Amount***
	Brought Forward				
	Brick Reinforcement.				
1	"Cotts ref C1" brick reinforcement built into half brick walls, lapped at angles and passings (measured net).	*m*	13		
2	"Cotts ref C2" brick reinforcement built into one brick walls, lapped at angles and passings (measured net).	*m*	65		
	Total Foundations Carried to Guard House Summary				

Item			***Quantity***	***Rate***	***Amount***
	CONCRETE, FORMWORK AND REINFORCEMENT				
	IN-SITU CONCRETE				
	Vibrated reinforced concrete(Grade 30-20mm stone) in:				
1	Eaves beam	m^3	1		
2	Upstand beam	m^3	1		
	FORMWORK				
	NOTE: Unless otherwise described, formwork to soffits is to include for propping up to 3,5 metres formwork to sides of slabs, walls, columns etc.. is deemed to include for shoring up not exceeding 5,0 metres high above bearing level.				
	Sawn Formwork as described to:				
3	Sides of eaves beam.	m^2	6		
4	Soffits of eaves beams in narrow widths.	m^2	4		
5	Sides of upstand beam.	m^2	6		
	REINFORCEMENT				
	Mild and high tensile steel reinforcement to concrete including all bending, hooked ends, binding wire and temporary supports.				
6	Steel bar reinforcement all sizes.(Provisional)	*kg*	248		
	Cover blocks and spacers.				
7	Allow for cover blocks and spacers.	*item*	1		
	PRECAST CONCRETE.				
	Precast concrete dripstones placed in position including all necessary shallow excavations, etc.				
8	Dripstone size 270 x 620mm finished fair on all exposed surfaces.	no	2		
9	Precast concrete coping	*m*	18		
	"Ciampi" or equal approved pre-stressed precast concrete lintels (20Mpa) in cement mortar (1:3) nominal size 230x75mm high				
10	Lintel 1230mm long	*no*	2		
11	Ditto 1580mm long	*no*	2		
	Carried Forward			**$**	

Item			***Quantity***	***Rate***	***Amount***
	Brought Forward				
1	Lintel 1130mm long	*no*	1		
2	Ditto 1015mm long	*no*	1		
	"Ciampi" or equal approved pre-stressed precast concrete lintels (20Mpa) in cement mortar (1:3) nominal size 115x75mm high				
3	Lintel 980mm long	*no*	1		
4	Ditto 1015mm long	*no*	1		
	Concrete, Formwork & Reinforcement Carried to Guard House Summary				

Item			***Quantity***	***Rate***	***Amount***
	BRICKWORK				
	Samples				
1	Allow for providing samples of all bricks as described.	*Item*	1		
	Approved common bricks laid in 1:4 cement mortar, compressive strength 7.5 Mpa.				
2	One brick wall.	*m²*	30		
3	Half brick wall.	*m²*	8		
4	One and half facebrick	*m²*	12		
5	Half brick beam filling.	*m²*	2		
6	Brick on edge window cills (facings)	*m*	4		
	Labours				
7	Rough splay cutting brickwork.	*m²*	4		
8	Rough raking cutting brickwork.	*m²*	4		
9	Bed wall plate in cement mortar.	*m*	3		
10	Bed roof sheets in cement mortar	*m²*	5		
	DAMP PROOF COURSE				
	Note: No damp proof course is to be covered up until it has been inspected and approved.				
	One layer of two ply bituminous felt sheeting as damp proof course as described well lapped at joints and junctions (measured net)				
11	On half brick wall	*m²*	1		
12	On one brick wall	*m²*	7		
13	One and half brickwall	*m²*	4		
14	Stepped under window cills.	*m²*	1		
	Carried Forward			**$**	

Item			Quantity	Rate	Amount
	Brought Forward				
	VENTILATION				
1	230 x 150mm Precast concrete external louvred airbricks and liner with fine copper gauze at the back and forming flue through and building into brickwork.	*no*	5		
2	230 x 150mm Precast concrete internal louvred airbricks and liner with fine copper gauze at the back and forming flue through and building into brickwork.	*no*	5		
	Sundries.				
3	Hoop iron ties to brickwork and trusses	*no*	24		
4	"Cotts ref C1" brick reinforcement built into half brick walls, lapped at angles and passings (measured net)	*m*	31		
5	"Cotts ref C2" brick reinforcement built into one brick walls, lapped at angles and passings (measured net)	*m*	128		
	Total BRICKWORK Carried to Guard House Summary				

Item			***Quantity***	***Rate***	***Amount***
	CARPENTRY (Provisional)				
	Timber roof trusses.				
1	Prefabricated timber trusses to carry AC sheets and plaster board ceiling	*Item*			
	Sawn softwood.				
2	38x114mm Wall plate.	*m*	18		
	Wrot softwood.				
3	50 x 76mm Purlins	*m*	4		
4	38x228mm Fascia or bargeboard to trusses.	*m*	22		
	Total CARPENTRY Carried to Guard House Summary			**$**	
	ROOF COVERINGS (Provisional)				
5	Roof covering 22.5 degree pitch to timber trusses (elsewhere measured).	*m²*	20		
6	Raking cutting and waste roof sheets.	*m*	4		
	INSULATION				
7	Alucushion' or equal approved insulation laid between roofing sheets and timber purlins (elsewhere measured) on strained galvanised wires all in accordance with manufacturer's instructions including all cutting and waste	*m2*	18		
	Total ROOF COVERINGS Carried to Guard House Summary			**$**	

Item			***Quantity***	***Rate***	***Amount***
	JOINERY AND IRONMONGERY				
	CEILINGS AND CORNICES				
1	9mm "Gypsum" or equal approved plasterboard ceiling with close butt joints on and including 38x38mm sawn softwood brandering at 400mm centres both ways to underside of timber trusses at maximum 1350mm centres with scrimmed joints to receive plaster (elsewhere measured)	m^2	13		
2	Trapdoor size 610x610mm in clear comprising 5mm prime-hardwood on 38x76mm wrot softwood trimmers framed around opening and 19x76mm wrot softwood angle rounded planted on and mitred around at junction with ceiling. (provisional).	*no*	1		
3	100mm "Rhino" or equal and approved coved fibrous wood crown moulding cornice including mitres, etc.	*m*	21		
	DOORS				
	Standard semi-solid core internal quality flush door hardwood edged all round with veneer suitable for painting both sides				
4	44mm Door size 900 x 2100mm high. Door type D01	*no*	1		
	Standard solid core external quality flush door hardwood edged all round with veneer suitable for painting both sides				
5	44mm Door size 900 x 2400mm high. Door type D02	*no*	1		
	IRONMONGERY				
	The following ironmongery to be fixed to timber doors, metal doors and pressed metal frames.				
	"Union" or similar approved				
6	Union No. CZ 682-24-95CH two lever mortice lockset.	*no*	2		
7	40mm Rubber door stop.	*no*	2		
8	"Kirsch" or equal approved curtain track with rollers stop ends, etc. fixed to blockboard (In no. 24).	*m*	6		
9	32mm Diameter chromium plated towel rail 600mm girth complete with end brackets.	*no*	1		
	Total JOINERY & IRONMONGERY Carried to Guard House Summary			**$**	

Item			***Quantity***	***Rate***	***Amount***
	METALWORK				
	GLAZED ALUMINIUM WINDOWS				
	Purpose made aluminum windows glazed with and including 6mm solar shield colour glass complete with peg locks to sliding openings, barrel bolt locks and brass handles fixed complete.				
1	Window comprising two equal opening lights size 1000 x 1200mm high (GD01)	*no*	2		
2	Ditto size 1200 x 13500mm high (GD02)	*no*	2		
3	Ditto size 750x 1200mm high (GD03)	*no*	1		
	Sundry				
4	"Secomastic" or equal approved waterproof sealant around windows externally.	*m*	5		
	PRIMED PRESSED STEEL DOOR FRAMES				
	Standard pressed steel door frame and linings for 44mm thick doors complete with cramps for building in and steel butts				
5	Frame for door size 900 x 2400mm in half brickwall plastered both sides	*no*	1		
6	Frame for door size 900 x 2100mm in one brickwall plastered both sides	*no*	1		
	Total METALWORK Carried to Guard Room Summary			**$**	

Item			***Quantity***	***Rate***	***Amount***
	PLASTERING & WALL LININGS				
	EXTERNALLY				
	One coat cement/sand plaster (1:4) finished smooth with a fine wood float on:				
1	Woodfloat plaster to walls externally	*m2*	30		
2	Ditto to walls, reveals, etc in narrow widths	*m2*	1		
	VENTILATION				
3	230X150mm Caster plaster internal louvred air brick with fine copper wire gauze at the back including forming hole through and building into one brick wall flash with plaster (Provisional)	*no*	5		
	INTERNAL				
4	Steel trowel plaster to walls	*m2*	66		
5	Ditto Walls, reveals, cills, etc. in narrow widths	*m2*	1		
	Render in Rhinobond and set in Rhinoset including all labours with a fine textured finish on:				
6	Plasterboard ceiling	*m ²*	13		
	Total PLASTERING & WALL LININGS Carried to SUMMARY			**$**	

Item			***Quantity***	***Rate***	***Amount***
	PAVINGS & FLOOR COVERINGS				
	SCREEDS				
	1 : 4 Cement/ sand screeds woodfloat finish				
1	32mm Screed on floors to receive porcelain floor tiles.	m^2	13		
	THE FOLLOWING SUPPLIED AND LAID BY AN APPROVED FIRM OF SPECIALIST WITH AN ADHESIVE TO SCREED INCLUDING ALL SQUARE CUTTING				
	PORCELAIN TILES				
	Porcelain floor tiles on screed (elsewhere measured) (Prime Cost Sum of $15.00/m2)				
2	Floors on screed (elsewhere measured)	m^2	13		
3	100mm high skirting with square top edge, including mitres etc	*m*	21		
	Division Strips				
4	6 x 40 mm Aluminum dividing strips between different floor finishes and setting in and including groove in concrete floor (Provisional).	*m*	2		
	Total Paving and Flooring carried to Guard House Summary			**$**	

Item			Quantity	Rate	Amount
	RAINWATER DISPOSAL, PLUMBING AND DRAINAGE, ETC (PROVISIONAL)				
	SANITARY FITTINGS.				
	NOTE: No sanitary fittings are to be ordered until approved by the Project Manager.				
1	"Hibiscus Vaal Potteries" or similar approved white vitreous china close coupled low level WC suite wash down pan with "P" trap and plastic seat and flap; 14litre "Hibiscus" cistern complete with 'cobra 19' toilet econ-flush valve, siphon, and bedding pan level in cement mortar on floor including jointing to waste pipe and water supply.	*no*	1		
2	"Vaal Potteries" or similar approved white vitreous china cast into lavatory basin size 560 x 405mm overall, with integral overflow and two tapholes, 40mm chromium plated waste, plug, stay and chain, complete with two Cobra 111 3/4 chromium plated pillar auqilla pattern taps, the whole fixed on and including wall brackets, plugged and screwed to walls, and jointed to waste pipes and water supply.	*no*	1		
	SANITARY PLUMBING				
	uPVC Pipes and fittings to BS 4514 and SAZ K32				
3	40mm Waste pipe fixed to walls, etc	*m*	2		
4	110mm Vent stack	*m*	1		
5	110 mm Ditto laid in trench not exceeding 1 meter deep	*m*	1		
6	110mm Waste pipe laid vertically in trenches (no excavations)	*m*	0.5		
	Extra over uPVC pipe for fittings				
7	40mm Bend with inspection eye	*no*	1		
8	110mm straight pan connector	*no*	1		
9	110mm Junction	*no*	1		
10	110mm Junction with inspection eye	*no*	1		
	Traps				
11	32 mm "P" or "S" trap	*no*	1		
	Carried Forward			**$**	

Item			***Quantity***	***Rate***	***Amount***
	Brought Forward				
	Sundries				
1	"Proplastics (Pvt) Ltd" or similar approved 110 mm Upvc ultraviolet stabilized gulley trap with 110 x 150 mm hopper head and grating, including surrounding with mass concrete (15 Mpa) carried up to kerb 150 m high above ground finishing exposed surfaces of kerb with 20mm untinted grano and including all necessary formwork and jointing to earthen ware pipe.	*no*	1		
	COLD WATER INSTALLATION				
	Connection etc.				
	Cooper Pipes to BS 2871				
2	22mm Diameter pipe laid in ground including excavating trench not exceeding 1 meter deep, fill in, ram and spread surplus excavated material on site not exceeding 100 meters.	*m*	2		
3	22mm Diameter pipe to wall	*m*	1		
4	22mm Diameter pipe to wall in chase.	*m*	1		
5	15mm Diameter to wall in chase.	*m*	1		
	Extra on copper piping for:				
6	22 mm Bend.	*no*	1		
7	25x22 mm Reducing tee	*no*	1		
8	22x15 mm Reducing tee.	*no*	2		
	Supply and fix the following taps, cocks, etc				
9	15mm Stop valves and jointing to pipes.	*no*	1		
10	25mm Isolating stop valves ditto.	*no*	1		
	Carried Forward			**$**	

Item			Quantity	Rate	Amount
	Brought Forward				
	BUILDERS' WORK IN CONNECTION WITH PLUMBING AND ASSOCIATED SERVICES.				
	HOLES, ETC				
	Leave or form hole for pipe not exceeding 50mm internal diameter through.				
1	One brick walls	*no*	2		
	Leave or form hole for pipe exceeding 50mm but not exceeding 100mm internal diameter through.				
2	One brick wall	*no*	1		
	CHASES, ETC				
3	Leave or form chase for pipe not exceeding 50mm internal diameter in brick walls, etc.	*m*	2		
	TESTING				
4	Allow for testing the foregoing sanitary installation, plumbing and drainlaying including flushing out pipes, cleaning out traps etc. to the satisfaction of the Architect and Municipal Authorities and for re-testing after making good defects.	*Item*			
	Total PLUMBING & DRAINAGE Carried to Guard House Summary				

Item			***Quantity***	***Rate***	***Amount***
	BILL NO.11 **GLAZING** **(For Preambles see General Specifications)**				
	Mirror				
1	6mm Polished sheet glass silvered back mirror, size 400 x 400 high, with bevelled and polished edges, holed for and including four dome capped chromium plated screws with felt washers and fixed in position to tiled wall.	*no*	1		
2	4mm Clear glass	m^2	6		
3	4mm Frosted glass	m^2	1		
	Total GLAZING Carried to Guard House Summary			**$**	

Item			Quantity	Rate	Amount
	PAINTING				
	ON PLASTER				
	Prepare and apply Two coats external quality P.V.A emulsion paint externally on:				
1	Wood float plastered walls	m^2	30		
2	Wood float plastered walls, columns, etc.	m^2	1		
3	Ditto to edges in narrow widths	m^2	1		
	Prepare, stop and apply one undercoat and two finishing coats washable internal quality PVA paint internally on:				
4	Steel float plastered walls	m^2	66		
5	Ditto walls, reveals, cills etc. in narrow widths	m^2	1		
6	Plasterboard ceiling	m^2	13		
	ON WOOD				
	Prepare, stop and apply one coat red lead primer, one undercoat and two finishing coats high gloss enamel paint on:				
7	Timber doors	m^2	4		
8	Carbolineum saturate sawn softwood wall plate before fixing	m^2	1.5		
	ON METAL				
	Touch up manufacturer's priming coat and apply one undercoat and two finishing coats high gloss enamel paint on:				
9	Door frames and linings in narrow widths	m^2	3		
10	Steel window frames in narrow widths	m^2	3		
	Clean down, stop and apply two coats polyurethane vanish to:				
11	Wall	m^2	12		
12	Skirting in narrow widths	m^2	21		
	Carried Forward			**$**	

Item			***Quantity***	***Rate***	***Amount***
	Brought Forward				
1	Carbolineum saturate sawn softwood wall plate before fixing.	*m*	18		
	TOUCH UP				
2	Touch up and clean paint work requiring it, scrub floors and pavings, clean down glass and leave premises and site properly clean and the whole complete and ready for occupation.	*Item*			
	Total PAINTING Carried to Guard House Summary			**$**	
	SPECIALIST SERVICES				
3	Allow the sum of US$4, 600.00 (Four thousand six hundred dollars) for electrical installation.	*Sum*			
4	Allow for profit.	*0.5%*			
5	Allow for attendance.	*0.5%*			
	Total Carried to Guard House Summary				-
	GUARD HOUSE SUMMARY			**Page.**	**Amount**
	FOUNDATIONS (PROVISIONAL)			123	
	CONCRETE, FORMWORK AND REINFORCEMENT			125	
	BRICKWORK			127	
	CARPENTRY (PROVISIONAL)			128	
	ROOF COVERINGS			128	
	JOINERY AND IRONMONGERY			129	
	METALWORK			130	
	PLASTERING AND WALL LININGS			131	
	PAVINGS AND FLOOR COVERINGS			132	
	PLUMBING AND DRAINAGE			135	
	GLAZING			136	
	PAINTING			138	
	SPECIALIST SERVICES			138	
	GUARD HOUSE TOTAL CARRIED TO EXTERNAL WORKS COLLECTION			**$**	

Item		***Quantity***	***Rate***	***Amount***
	BILL NO. 14 **EXTERNAL WORKS (PROVISIONAL)** **COLLECTION**			
		Page		**Amount**
1.00	Parking & Driveway	107		
2.00	Stormwater Drainage	108		
2.00	Sewerage Reticulation	111		
3.00	Water Reticulation	113		
4.00	Boundary Wall	119		
5.00	Guard House	138		
	BILL NO. 14 **EXTERNAL WORKS (PROVISIONAL)** **CARRIED TO SUMMARY**			**$**

Item No		***Unit***	***Quantity***	***Rate***	***Amount***
	BILL NO. 15				
	PRIME COST AND PROVISIONAL SUMS				
	The following Provisional and Prime Cost Items are nett.				
	The following Provisional Sums are to be spent as directed by the Architect or deducted in whole or in part if not required (No profit is to be added)				
1	Provide the sum of $ 15000.00 (Fifteen thousand hundred dollars) for Materials and Compaction Density Testing.	*Sum*			15,000.00
2	Provide the sum of US$ 18 000.00 (Eighteen thousand dollars) for the construction and completion of a electrical substation at contract prices.	*Sum*			18,000.00
	Provide the following Prime Cost Sums for works to be executed and completed by nominated Sub-contractor.				
3	Provide a sum of USD 145,000.00 (One hundred fifty-five thousand dollars) for Heating Ventilation and Air conditioning.	*Sum*			145,000.00
	Allow for profit	*%*			
	Allow for attendance	*%*			
4	Provide the sum of $ 170 000.00 (One hundred seventy thousand dollars) for Mechanical Elevator.	*Sum*			170,000.00
	Allow for profit	*%*			
	Allow for attendance	*%*			
5	Provide the sum of $ 10 000.00 (Ten thousand dollars) for Duct Covers.	*Sum*			10,000.00
	Allow for profit	*%*			
	Allow for attendance	*%*			
6	Provide the sum of $45 000.00 (Forty-five thousand dollars) for Canopy over Courtyard.	*Sum*			45,000.00
	Allow for profit	*%*			
	Allow for attendance	*%*			
				$	

Item No		***Unit***	***Quantity***	***Rate***	***Amount***
1	Provide a sum of USD 90, 000 (Ninety thousand dollars) for fabrication and installation of mild steel framed screens complete.	*Sum*			90,000.00
	Allow for profit	*%*			
	Allow for attendance	*%*			
2	Provide a sum of USD 350,000.00 (Three hundred fifty thousand dollars) for Electrical Installation, including conduits, fittings, wiring, circuit boards, etc installed complete.	*Sum*			350,000.00
	Allow for profit	*%*			
	Allow for attendance	*%*			
3	Provide the sum of USD140, 000.00 (One hundred forty thousand) for Fire Supression System.	*Sum*			140,000.00
	Allow for profit	*%*			
	Allow for attendance	*%*			
4	Provide the sum of USD13, 000.00 (Thirteen thousand only) for Balustrades and Handrails.	*Sum*			13,000.00
	Allow for profit	*%*			
	Allow for attendance	*%*			
5	Provide the sum of USD58, 000.00 (Fifty- eight thousand) for Aluminium Louvres.	*Sum*			58,000.00
	Allow for profit	*%*			
	Allow for attendance	*%*			
6	Provide the sum of USD5, 000.00 (Eighteen thousand only) for Pergola.	*Sum*			5,000.00
	Allow for profit	*%*			
	Allow for attendance	*%*			
	Carried to Collection			**$**	

Item No		***Unit***	***Quantity***	***Rate***	***Amount***
1	Provide the sum of USD18, 000.00 (Eighteen thousand only) for Built-in cupboards and kitchen fittings, etc complete with ironmongery.	*Sum*			18,000.00
	Allow for profit	*%*			
	Allow for attendance	*%*			
2	Provide the sum of USD245, 000.00 (Two hundred and forty-five thousand only) for Pile foundations etc installed complete.	*Sum*			245,000.00
	Allow for profit	*%*			
	Allow for attendance	*%*			
3	Provide the sum of USD10, 000.00 (Ten thousand only) for Signage.	*Sum*			10,000.00
	Allow for profit	*%*			
	Allow for attendance	*%*			
4	Provide the sum of USD10, 000.00 (Ten thousand only) for Water Pumps.	*Sum*			10,000.00
	Allow for profit	*%*			
	Allow for attendance	*%*			
	Carried to Collection			**$**	
	BILL NO. 15		***Page***		**Amount**
	PRIME COST & PROVISIONAL SUMS				
	COLLECTION				
			140		
			141		
			142		
	BILL No. 15				
	PRIME COST & PROVISIONAL SUMS			**$**	
	CARRIED TO SUMMARY				

SUMMARY.

Bill No	*Trade*	*Page*	*Amount*
1	PRELIMINARY & GENERALLY	72	
2	ALTERATIONS & DEMOLITIONS	76	
3	FOUNDATIONS (PROVISIONAL)	80	
4	CONCRETE, FORMWORK AND REINFORCEMENT	82	
5	BRICKWORK	84	
6	WATERPROOFING	85	
7	JOINERY AND IRONMONGERY	88	
8	METALWORK	92	
9	PLASTERING AND WALL LININGS	93	
10	PAVING AND FLOOR COVERINGS	94	
11	PLUMBING AND DRAINAGE (PROVISIONAL)	101	
12	GLAZING	102	
13	PAINTING	104	
14	EXTERNAL WORKS (PROVISIONAL)	139	
15	PRIME COST AND PROVISIONAL SUMS	142	
	SUB-TOTAL		
	CONTIGENCIES		
	Provide 10% for contigency sum	**10%**	
	SUB-TOTAL		
	ADD: VAT (Value Added Tax) (15%)	15%	
	TOTAL CARRIED TO FORM OF TENDER	**$**	