

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<p><u>MAINTENANCE, RENOVATIONS AND REPAIRS FOR MINISTRY OF DEFENCE AND VETERANS AFFAIRS</u></p> <p><u>GENERAL NOTES</u></p> <p>1 THIS VOLUME MUST BE READ IN CONJUNCTION WITH VOLUME ONE OF THIS BID WITH PARTICULAR REFERENCE TO THE SPECIFICATIONS CONTAINED THEREIN.</p> <p>2 ALL PAGES OF THIS VOLUME INCLUDING THE COVER PAGE MUST BE INITIALED IN BLACK INK.</p> <p>3 NO ALTERATIONS AT ALL MAY BE MADE TO THE TEXT, DESCRIPTIONS OR UNIT RATES OR PERCENTAGES STATED HEREIN.</p> <p>4 ALL RATES ARE INCLUSIVE OF VALUE ADDED TAX AT THE RATE OF 15%.</p>		
	<p>Bill No. 1 GENERAL NOTES</p> <p style="text-align: right;">Initial here.....</p>		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>BILL No 1</u>		
	<u>DEMOLITIONS AND ALTERATIONS</u>		
	<u>NOTES :</u>		
1	All reusable materials from the alterations such as, but not limited to, windows, doors, door frames, locks, general ironmongery, roof sheeting, trusses, purlins, fencing, carpets, light fittings, switches, plugs, distribution boards, and the like remain the property of the Department of Works and are to be carefully removed and to be handed over to the Employer.		
2	Such materials are to be removed and transported to the nearest offices of the Department of Works. The materials delivered to the Department of Works are to be receipted. All other building rubble is to be <u>removed from site to a suitable disposal site to be located by the Contractor.</u>		
	<u>TEMPORARY DUSTPROOF SCREENS AND BARRIERS</u>		
	<u>Supply and erect and remove on completion temporary dustproof screens formed of suitable timber framing covered with plywood sheeting and damp proof membrane</u>		
1	Temporary dustproof screens in closing up of window and door openings and the like	m2	177.49
2	Temporary dustproof screens 2700mm high	m	426.35
	<u>DEMOLITION OF EXISTING BUILDINGS</u>		
	<u>Demolition of existing buildings and structures complete including breaking up and removing foundation brickwork to a minimum of 150mm below ground level</u>		
3	Single storey buildings of timber or prefabricated construction with a floor to ceiling height of not exceeding 3m high (area measured over the external walls, excluding roof overhangs and concrete aprons and stoeps) (concrete stoeps and aprons separately measured)	m2	640.22
4	Single storey buildings with metal roofs on timber or steel trusses with a floor to ceiling height of not exceeding 3m high (area measured over the external walls, excluding roof overhangs and concrete aprons and stoeps) (concrete stoeps and aprons separately measured)	m2	660.61
5	Single storey buildings with concrete roofs with a floor to ceiling height of not exceeding 3m high (area measured over the external walls, excluding roof overhangs and concrete aprons and stoeps) (concrete stoeps and aprons separately measured)	m2	893.59
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
<u>REMOVAL OF EXISTING WORK</u>			
<u>NOTE :</u>			
1	Prices for the demolition of brick walls must allow for the demolition and removal of small isolated beams and lintols occuring therein over openings.		
2	The area of brickwork to be demolished excludes the areas of openings in walls.		
3	Prices for the demolition of brick or concrete walls, concrete surface beds, columns, slabs and the like must allow and include for the demolition of plastered or screeded surfaces and other finishes related thereto as NO separate measurement or payment will be made in this regard.		
4	Prices for the demolition of concrete must allow for the cutting up and removal of any steel reinforcement in the concrete.		
5	The Contractor must ensure the stability of adjoining walls and structures during the demolition of any concrete and / or brickwork and must provide and install any necessary propping that may be necessary to ensure such stability and prices must allow herefore.		
<u>Breaking up or breaking down and removing concrete</u>			
6	Concrete footings, bases and steps	m3	1,129.34
7	Concrete columns, walls, beams, slabs and staircases	m3	1,129.34
8	Concrete surface beds, aprons, pavings, etc approximately 75mm thick	m2	100.35
9	Concrete surface beds, aprons, pavings, etc approximately 100mm thick	m2	124.97
10	Concrete surface beds, aprons, pavings, etc approximately 150mm thick	m2	179.78
<u>Breaking up or breaking down and removing brickwork or blockwork</u>			
11	Brick piers or columns	m3	942.51
12	Kerb walls	m2	82.34
13	Half brick wall	m2	131.46
14	One brick wall	m2	220.78
15	One and a half brick wall	m2	325.75
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Hacking up or hacking off and removing granolithic, screeds, plaster, tiles, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, tiling, etc (elsewhere measured)</u>		
16	Internal or external plaster from walls, columns and soffits	m2	69.24
17	Screeds or granolithic paving to floors, roofs, treads and risers, etc not exceeding 30mm thick	m2	99.81
18	Screeds or granolithic paving to floors, roofs, treads and risers, etc exceeding 30mm and not exceeding 50mm thick	m2	135.49
19	Screeds or granolithic paving to floors, roofs, treads and risers, etc exceeding 50mm and not exceeding 80mm thick	m2	212.30
20	Ceramic floor or wall tiles	m2	69.26
	<u>Taking up and removing vinyl floor coverings, carpeting, etc from screeded surfaces to be removed</u>		
21	Vinyl tile, sheet vinyl or similar floor covering	m2	41.82
22	Carpet tiles or carpeting with underfelt	m2	41.69
	<u>Taking up and removing vinyl floor coverings, carpeting, etc from screeded surfaces and prepare surface under to receive new floor finish by removing all old adhesives, etc</u>		
23	Vinyl tile, sheet vinyl or similar floor covering	m2	59.36
24	Carpet tiles or carpeting with underfelt	m2	59.20
	<u>Taking up and removing timber flooring, etc</u>		
25	Timber flooring of various thicknesses from timber bearers and joists and prepare to receive new (existing timber bearers and joists to remain)	m2	52.55
26	Timber flooring of various thicknesses from and including the removal of timber bearers and joists under	m2	54.64
	<u>Taking off or hacking off and removing skirtings and making good walls where skirtings removed</u>		
27	Timber skirting	m	16.13
28	Vinyl skirtings	m	15.43
29	Screeded or granolithic skirtings not exceeding 300mm high	m	33.01
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Taking down and removing roofs, etc</u>		
30	Waterproofing membranes on flat concrete roof prepare surface under to receive new, including turnups, flashings, etc (measured on flat to roof area on slope)	m2	77.34
31	Waterproofing membranes on flat concrete roofs in isolated areas in repairs and prepare surface under to receive new, including turnups, flashings, etc (measured on flat to affected roof area on slope)	m2	90.35
32	Malthoid roofing felt and prepare timber surface under to receive new, including turnups, flashings, etc (measured on flat to roof area on slope)	m2	74.49
33	Malthoid roofing felt in isolated areas in repairs and prepare timber surface under to receive new, including turnups, flashings, etc (measured on flat to affected roof area on slope)	m2	75.37
34	Malthoid roofing felt and timber boarding under, including turnups, flashings, etc (measured on flat to roof area on slope)	m2	82.73
35	Fibre cement or metal roof sheeting in isolated single sheets in repairs (new sheeting elsewhere measured) (measured on flat to affected roof area on slope)	m2	65.79
36	Fibre cement or metal roof sheeting including flashings, ridges, etc (measured on flat to affected roof area on slope)	m2	63.92
37	Fibre cement or metal roof sheeting including metal or timber purlins, flashings, ridges, etc (measured on flat to roof area on slope)	m2	65.35
38	Concrete or clay roof tiles in isolated areas in repairs (new tiles elsewhere measured) (measured on flat to affected roof area on slope)	m2	60.46
39	Concrete or clay roof tiles in isolated areas in repairs (new tiles elsewhere measured) (measured on flat to affected roof area on slope)	m2	60.40
40	Concrete or clay roof tiles including battens or purlins (measured on flat to roof area on slope)	m2	61.22
41	Gutters and downpipes	m	41.39
42	Gutters and downpipes in short isolated lengths	m	46.54
43	Timber, steel or fibre cement fascias and bargeboards	m	40.94
44	Timber, steel or fibre cement fascias and bargeboards in short isolated lengths	m	47.10
45	Fibre cement or metal ridges and hip cappings where roof sheteing is not being removed	m	41.00
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
46	Timber or steel truss with a clear span of not exceeding 2m and an overhang of not exceeding 900mm at eaves on both sides	No	170.50
47	Timber or steel truss with a clear span of exceeding 2m and not exceeding 4m and an overhang of not exceeding 900mm at eaves on both sides	No	211.04
48	Timber or steel truss with a clear span of exceeding 4m and not exceeding 6m and an overhang of not exceeding 900mm at eaves on both sides	No	263.41
49	Timber or steel truss with a clear span of exceeding 6m and not exceeding 8m and an overhang of not exceeding 900mm at eaves on both sides	No	284.35
50	Timber or steel truss with a clear span of exceeding 8m and not exceeding 10m and an overhang of not exceeding 900mm at eaves on both sides	No	342.43
	<u>Carefully taking down, storing, protecting and later re-fixing of existing roof sheeting to new or existing metal or timber purlins (purlins elsewhere measured) including the supply and fitting of new screws, bolts, brackets, etc as may be required</u>		
51	Fibre cement or metal roof sheeting in isolated single sheets in repairs (measured on flat to affected roof area on slope)	m2	145.52
	<u>Taking down and removing ceilings, etc</u>		
52	Softboard or gypsum board ceilings in isolated panels	m2	41.64
53	Softboard or gypsum board ceilings including cover strips and cornices	m2	41.77
54	Softboard or gypsum board ceilings including brandering and cover strips and cornices	m2	42.22
55	Suspended ceilings in isolated panels, including all hangers, tees, cornices, etc	m2	42.89
56	Suspended ceilings, including all hangers, tees, cornices, etc	m2	42.94
57	Metal ceiling sheeting in isolated single length sheets in repairs (new sheeting elsewhere measured)	m2	43.24
	<u>Taking out and removing doors, windows, etc from brickwork or concrete walls to be demolished</u>		
58	Steel window not exceeding 2,5m ² in area	No	138.13
59	Steel window exceeding 2.5m ² and not exceeding 5m ² in area	No	158.25
60	Steel window exceeding 5m ² and not exceeding 7.5m ² in area	No	169.42
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
61	Aluminium window not exceeding 2,5m ² in area	No	135.84
62	Aluminium window exceeding 2.5m ² and not exceeding 5m ² in area	No	154.45
63	Aluminium window exceeding 5m ² and not exceeding 7.5m ² in area	No	167.82
64	Glazed steel door and frame not exceeding 2,5m ² in area	No	138.68
65	Glazed steel door and frame exceeding 2.5m ² and not exceeding 5m ² in area	No	188.64
66	Timber single or double door and timber door frame not exceeding 2,5m ² in area	No	181.94
67	Timber single or double door and timber door frame exceeding 2.5m ² and not exceeding 5m ² in area	No	178.88
68	Timber single or double door and steel door frame not exceeding 2,5m ² in area	No	181.14
69	Timber single or double door and steel door frame exceeding 2.5m ² and not exceeding 5m ² in area	No	197.83
70	Steel single or double door and steel door frame not exceeding 2,5m ² in area	No	188.10
71	Steel single or double door and steel door frame exceeding 2.5m ² and not exceeding 5m ² in area	No	201.38
72	Aluminium door with sidelights and fanlights not exceeding 2,5m ² in area	No	192.22
73	Aluminium door with sidelights and fanlights exceeding 2.5m ² and not exceeding 5m ² in area	No	193.79
74	Aluminium door with sidelights and fanlights exceeding 5m ² and not exceeding 7.5m ² in area	No	218.05
<u>Taking out and removing doors, windows sashes from frames, gates, etc and prepare to receive new</u>			
75	Aluminium and glass louvre unit from window or fanlight	No	341.21
76	Burglar bars or screens not exceeding 2,5m ² in area from steel window or brick wall	No	311.38
77	Burglar bars or screens exceeding 2.5m ² and not exceeding 5m ² in area from steel window or brick wall	No	312.62
78	Single timber or steel door from steel or timber frame and prepare frame to receive new door (elsewhere measured)	No	369.67
79	Double timber or steel door from steel or timber frame and prepare frame to receive new door (elsewhere measured)	No	397.28
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
80	Timber sash from timber window and prepare timber frame to receive new (elsewhere measured)	No	362.95
81	Steel sash from steel window and prepare steel frame to receive new (elsewhere measured)	No	366.21
82	Aluminium sash from aluminium window and prepare frame to receive new (elsewhere measured)	No	371.46
83	Aluminium sliding door from aluminium frame and prepare frame to receive new (elsewhere measured)	No	397.11
84	Single steel gate from steel frame and prepare frame to receive new gate (elsewhere measured)	No	427.48
85	Double steel gate from steel frame and prepare frame to receive new gate (elsewhere measured)	No	467.18
<u>Taking out and removing doors, windows, frames, etc (alterations to openings and / or building up openings where applicable elsewhere measured)</u>			
86	Steel window not exceeding 2,5m ² in area	No	171.95
87	Steel window exceeding 2.5m ² and not exceeding 5m ² in area	No	183.64
88	Steel window exceeding 5m ² and not exceeding 7.5m ² in area	No	191.87
89	Aluminium window not exceeding 2,5m ² in area	No	179.50
90	Aluminium window exceeding 2.5m ² and not exceeding 5m ² in area	No	182.83
91	Aluminium window exceeding 5m ² and not exceeding 7.5m ² in area	No	183.66
92	Glazed steel door and frame not exceeding 2,5m ² in area	No	178.48
93	Glazed steel door and frame exceeding 2.5m ² and not exceeding 5m ² in area	No	188.86
94	Timber single or double door and timber door frame not exceeding 2,5m ² in area	No	197.89
95	Timber single or double door and timber door frame exceeding 2.5m ² and not exceeding 5m ² in area	No	195.52
96	Timber single or double door and steel door frame not exceeding 2,5m ² in area	No	195.96
97	Timber single or double door and steel door frame exceeding 2.5m ² and not exceeding 5m ² in area	No	204.50
98	Steel single or double door and steel door frame not exceeding 2,5m ² in area	No	200.43
99	Steel single or double door and steel door frame exceeding 2.5m ² and not exceeding 5m ² in area	No	212.81
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
100	Aluminium door with sidelights and fanlights not exceeding 2,5m ² in area	No	222.68
101	Aluminium door with sidelights and fanlights exceeding 2.5m ² and not exceeding 5m ² in area	No	235.94
102	Aluminium door with sidelights and fanlights exceeding 5m ² and not exceeding 7.5m ² in area	No	268.88
103	Tip-up steel garage door	No	304.60
<u>Taking out and removing sundry ironmongery items, etc</u>			
104	Towel rails, towel rings, shower curtain rails, coat hooks, door stops, mirrors, soap dishes, toilet roll holders and the like	No	43.60
105	Door locks, handles, hinges, door number plates, kicking plates, flush bolts, barrel bolts and the like	No	56.76
106	Curtain tracks including pelmets	No	48.26
107	Venetain blinds and louvred drapes	No	58.15
108	Pinning boards, writing boards, projection screens and the like	No	57.34
<u>Taking out and removing partitioning</u>			
109	Timber framed and covered partitioning not exceeding 3m high complete with all doors, glazed openings, etc	m	198.43
110	Drywall partitioning not exceeding 3m high complete with all doors, glazed openings, etc	m	217.66
<u>Taking out and removing joinery fittings and the like</u>			
111	Counter tops and work tops only	m	99.35
112	Timber or metal shelving on wall bands with shelf brackets not exceeding 1.5m high	m	60.79
113	Timber or metal shelving on wall bands with shelf brackets exceeding 1.5m and not exceeding 2.4m high	m	66.24
114	Kitchen cupboard units and counters with cupboards under not exceeding 900mm high	m	96.72
115	Bedroom cupboard units, wall units, timber shelving units and the like not exceeding 3m high	m	95.30
116	Timber shelf from cupboard and prepare to receive new (elsewhere measured)	No	91.38
117	Cupboard door or drawer and prepare cupboard to receive new (elsewhere measured)	No	89.52
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
118	Broom cupboards and grocery cupboards	No	109.98
119	Metal storage and teachers' cupboard units	No	98.42
<u>Taking out and removing taps and mixers</u>			
120	Pillar tap, bib tap or angle valve	No	62.58
121	Sink or bath mixer complete	No	89.60
<u>Taking out and removing sanitary fittings and appliances, including taps and traps, including disconnecting piping from fittings and cutting back and sealing off all water and waste pipes as necessary</u>			
122	Stainless steel or earthenware wash hand basin	No	171.76
123	High level or low level cistern with flush pipe and prepare to receive new	No	214.44
124	Stainless steel or earthenware w.c. suite, drip sink or slop hopper with cistern and flush pipe	No	207.73
125	Stainless steel or earthenware bowl urinal	No	181.42
126	Stainless steel slab urinal with high level cistern and sparge pipes	No	189.93
127	Stainless steel single or double bowl sink and drainer unit	No	179.06
128	Shower set comprising shower rose and underwall stop cocks	No	196.03
129	Fire hose reel	No	212.00
130	Electric geyser of differing sizes from wall	No	273.82
131	Electric geyser of differing sizes from inside roof space including geyser tray	No	314.08
132	Steel or acrylic bath of all sizes	No	215.40
<u>Taking out and removing pipework, inclusive of valves, etc</u>			
133	Water supply and waste pipes of differing diameters and pipe types from walls	m	27.86
134	Water supply and sewage pipes of different diameters and pipe types in ground, including excavating, backfilling, etc	m	30.52
<u>Breaking up and removing manholes, gulleys, valve chambers, etc</u>			
135	Gully trap including brick and / or concrete surround	No	184.00
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
136	Small stopcock box including brick surround	No	154.74
137	Large valve chamber including brick and concrete surround and manhole covers and frames	No	432.43
138	Sewage manhole or stormwater catch pit not exceeding size 900 x 600mm internally and not exceeding 1m deep to invert	No	683.75
139	Sewage manhole or stormwater catch pit not exceeding size 900 x 600mm internally and exceeding 1m and not exceeding 2m deep to invert	No	803.05
<u>Taking down and removing of metal water tanks from tank stands</u>			
140	Metal water tank not exceeding 5000 litres from tank stand not exceeding 3m high	No	466.66
141	Metal water tank not exceeding 5000 litres from tank stand exceeding 3m high not exceeding 6m high	No	619.20
142	Metal water tank not exceeding 5000 litres from tank stand exceeding 6m high not exceeding 9m high	No	784.71
143	Metal water tank not exceeding 5000 litres from tank stand exceeding 9m high not exceeding 12m high	No	945.71
144	Metal water tank exceeding 5000 litres and not exceeding 10000 litres from tank stand exceeding 6m high not exceeding 9m high	No	1,064.01
145	Metal water tank exceeding 5000 litres and not exceeding 10000 litres from tank stand exceeding 9m high not exceeding 12m high	No	1,244.32
<u>Taking down and removing of polyethylene water tanks from tank stands</u>			
146	Polyethylene water tank not exceeding 5000 litres from tank stand not exceeding 3m high	No	442.36
147	Polyethylene water tank not exceeding 5000 litres from tank stand exceeding 3m high not exceeding 6m high	No	577.34
148	Polyethylene water tank not exceeding 5000 litres from tank stand exceeding 6m high not exceeding 9m high	No	727.48
149	Polyethylene water tank not exceeding 5000 litres from tank stand exceeding 9m high not exceeding 12m high	No	873.86
150	Polyethylene water tank exceeding 5000 litres and not exceeding 10000 litres from tank stand exceeding 6m high not exceeding 9m high	No	971.96
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
151	Polyethylene water tank exceeding 5000 litres and not exceeding 10000 litres from tank stand exceeding 9m high not exceeding 12m high	No	1,157.05
	<u>Taking out and removing glass from steel, timber or aluminium windows and prepare to receive new (new glass elsewhere measured)</u>		
152	Glass from steel windows, doors, sidelights and fanlights	m2	42.15
153	Glass from timber windows, doors, sidelights and fanlights	m2	38.71
154	Glass from aluminium windows, doors, sidelights and fanlights	m2	40.61
	<u>BUILDING UP OF OPENINGS</u>		
	<u>Brickwork in 7MPa cement bricks in class II mortar in building up openings, including cutting toothings and bonding new to existing brickwork (new wall finishes elsewhere measured)</u>		
155	Half brick walls	m2	529.36
156	One brick walls	m2	1,005.20
157	One and a half brick walls	m2	1,492.50
	<u>OPENINGS THROUGH EXISTING WALLS ETC</u>		
	<u>Breaking out for and forming openings through brick walls for new door frames and windows including making good plaster on both sides and into reveals with concrete thresholds with steel trowelled finish and building in frames (new lintols, door frames and windows and making good paintwork elsewhere)</u>		
158	Form opening through <u>half brick</u> wall for pressed steel door frame not exceeding 2.5m ² and make good plaster around both sides	No	551.49
159	Form opening through <u>half brick</u> wall for pressed steel door frame exceeding 2.5m ² and not exceeding 5m ² and make good plaster around both sides	No	810.73
160	Form opening through <u>one brick</u> wall for pressed steel door frame not exceeding 2.5m ² and make good plaster around both sides	No	1,024.52
161	Form opening through <u>one brick</u> wall for pressed steel door frame exceeding 2.5m ² and not exceeding 5m ² and make good plaster around both sides	No	1,501.54
162	Form plain opening or door opening through <u>half brick</u> wall not exceeding 2.5m ² and make good plaster around both sides and to reveals, soffit and threshold	No	485.95
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
163	Form plain opening or door opening through <u>half brick</u> wall exceeding 2.5m ² and not exceeding 5m ² and make good plaster around both sides and to reveals, soffit and threshold	No	799.05
164	Form plain opening or door opening through <u>one brick</u> wall not exceeding 2.5m ² and make good plaster around both sides and to reveals, soffit and threshold	No	1,025.71
165	Form plain opening or door opening through <u>one brick</u> wall exceeding 2.5m ² and not exceeding 5m ² and make good plaster around both sides and to reveals, soffit and threshold	No	1,497.11
166	Form window opening through <u>half brick</u> wall not exceeding 2.5m ² and make good plaster around both sides and to reveals, soffit and cill	No	641.12
167	Form window opening through <u>half brick</u> wall exceeding 2.5m ² and not exceeding 5m ² and make good plaster around both sides and to reveals, soffit and cill	No	805.40
168	Form window opening through <u>one brick</u> wall not exceeding 2.5m ² and make good plaster around both sides and to reveals, soffit and cill	No	1,052.88
169	Form window opening through <u>one brick</u> wall exceeding 2.5m ² and not exceeding 5m ² and make good plaster around both sides and to reveals, soffit and cill	No	1,480.62
<u>CUTTING THROUGH SURFACE BEDS, ETC</u>			
170	Cut through 100mm concrete surface bed 500mm wide for new footing and later make good filling, apply soil insectide and make good damp proof membrane and concrete surface bed (new footing and excavation elsewhere measured)	m	372.07
171	Cut through 100mm concrete surface bed 600mm wide for new footing and later make good filling, apply soil insectide and make good damp proof membrane and concrete surface bed (new footing and excavation elsewhere measured)	m	457.25
172	Cut through 100mm concrete surface bed 700mm wide for new footing and later make good filling, apply soil insectide and make good damp proof membrane and concrete surface bed (new footing and excavation elsewhere measured)	m	504.45
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>SCAFFOLDING</u>		
	NOTE :		
1	The Contractor must provide all necessary scaffolding for any and all work required to single storey buildings and to the insides of buildings irrespective of the height of the building as no additional payment will be made in this regard.		
2	Scaffolding will only be measured and paid for work to the external face of the building where the building or structure is higher than one storey and to the actual height of the scaffolding erected.		
3	The Contractor must ensure the stability of the scaffolding at all times and must provide adequate safety rails, barriers and walkways for the workmen using the scaffolding. No materials may be stored on scaffolding.		
4	The height of the scaffolding stated includes the ground floor level.		
173	Scaffolding to the external face of double storey buildings	m	227.27
174	Scaffolding to the external face of three storey buildings	m	395.34
175	Scaffolding to the external face of four storey buildings	m	612.65
176	Scaffolding to the external face of five storey buildings	m	796.55
177	Scaffolding to the external face of six storey buildings	m	961.56
178	Scaffolding to the external face of seven storey buildings	m	1,168.14
179	Scaffolding to the external face of eight storey buildings	m	1,329.22
180	Scaffolding to the external face of nine storey buildings	m	1,510.78
181	Scaffolding to the external face of ten storey buildings	m	1,784.03
	END OF BILL		
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>BILL No 2</u>		
	<u>GENERAL REPAIRS TO EXISTING WORK</u>		
	<u>REPAIRS AND SUNDRIES TO CONCRETE</u>		
182	Break up and remove 100mm concrete surface bed in small isolated patches by neatly cutting joint with an angle grinder, making good damp proof membrane under and re-casting in 20MPa concrete, including finishing off smooth	m2	532.81
183	15MPa Concrete in topping 100mm thick cast in panels to existing concrete floors, including preparation and finishing off smooth with a wood float or steel trowel	m2	387.39
184	20MPa Concrete in topping 100mm thick cast in panels to existing concrete floors, including preparation and finishing off smooth with a wood float or steel trowel	m2	408.15
185	25MPa Concrete in topping 100mm thick cast in panels to existing concrete floors, including preparation and finishing off smooth with a wood float or steel trowel	m2	437.37
	<u>REPAIRS AND SUNDRIES TO BRICKWORK</u>		
186	Neatly cut out and remove damaged or cracked section of <u>half brick wall</u> , clean and prepare and rebuild removed section in 7MPa cement bricks in class II mortar, including cutting toothings and bonding	m2	685.95
187	Neatly cut out and remove damaged or cracked section of <u>one brick wall</u> , clean and prepare and rebuild removed section in 7MPa cement bricks in class II mortar, including cutting toothings and bonding	m2	1,244.39
188	Neatly cut out and remove damaged or cracked section of <u>one and a half brick wall</u> , clean and prepare and rebuild removed section in 7MPa cement bricks in class II mortar, including cutting toothings and bonding	m2	1,700.04
189	Replace missing or damaged single brick including preparation and new mortar	No	57.40
	<u>REPAIRS TO ROOF WATERPROOFING AND EXPANSION JOINTS</u>		
190	Prepare, prime and apply one layer 'ABE Index Unigum MS' or other equal and approved 4mm thick waterproofing membrane to concrete, plastered or screeded surfaces in repairs in isolated areas (removal of old elsewhere measured)	m2	434.27
191	Prepare, prime with bitumen primer and apply one layer 'Derbigum SP' or other equal and approved 4mm thick torched-on fusion waterproofing membrane to concrete, plastered or screeded surfaces in repairs in isolated areas (removal of old elsewhere measured)	m2	437.53
192	Prepare, prime and apply one layer 'Index Fidia P' waterproofing membrane to concrete, plastered or screeded surfaces in repairs in isolated areas (removal of old elsewhere measured)	m2	504.61
	Bill No. 3 GENERAL REPAIRS TO EXISTING WORK		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
193	Prepare, prime and apply one layer 3mm 'Index Fidia' and one layer 4.5kg/m ² 'Index Fidia MS' exposed mineral surface waterproofing membrane to concrete, plastered or screeded surfaces in repairs in isolated areas (removal of old elsewhere measured)	m2	613.29
194	One layer "ABE 2-ply Malthoid" slip sheet butt jointed and fixed with copper clout nails at 150mm centres with and including one layer 4mm thick "ABE Argo" applied by torch fusion in repairs in isolated areas	m2	226.71
195	Rake out and remove old polysulphide or mastic pointing and prepare to receive new	m	77.96
<u>REPAIRS AND SUNDRIES TO EXISTING ROOF COVERINGS</u>			
<u>Sealing of existing roofs and flashings</u>			
<u>Note :</u>			
1	Prices must allow for the replacing of existing roofing drive screws and washers or hook bolts as may be necessary.		
2	Holes and roofing screws are to be sealed with Klodek waterproofing membrane. The waterproofing membrane sealing holes and roofing screws is to be a minimum size 75 x 75mm.		
3	Apply one coat primer diluted with 25% water, one full undiluted primer coat, one layer of waterproofing membrane and three finishing coats all as specified and in accordance with the manufacturer's instructions.		
196	Seal all holes and roofing screws, etc in galvanised roof sheeting and leave watertight (measured on flat to affected roof area on slope)	m2	205.62
197	Seal all ridges, hip cappings, valleys, side laps, end laps, side flashings, etc not exceeding 300mm wide or girth (measured on flat)	m	163.44
<u>Replacing of individual roofing sheets in repairs in isolated areas</u>			
<u>Note :</u>			
1	The removal of existing isolated roof sheets is separately measured in Bill No 1 of this Volume.		
2	Prices must allow for lifting up of existing roof sheeting, ridges, etc at ends and sides as may be necessary, for replacing roofing screws along side and end laps with existing sheeting and for leaving completely water tight.		
198	0.5mm Galvanised corrugated iron roof sheeting in single length sheets in repairs in isolated areas	m2	368.97
Bill No. 3 GENERAL REPAIRS TO EXISTING WORK			
Initial here.....			

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
199	0.6mm 'IBR' profile galvanised steel troughed roof sheeting in single length sheets in repairs in isolated areas	m2	444.30
200	0.5mm 'Craftlok' profile commercial quality uncoated steel alloy ribbed roof sheeting in single length sheets in repairs in isolated areas	m2	697.53
201	0.6mm 'Brownbuilt Kliplok' galvanised steel ribbed roof sheeting in single length sheets in repairs in isolated areas	m2	763.09
	<u>Fibre cement fascias</u>		
202	Replace short length of damaged or missing fascia or bargeboard with new 10mm fibre cement fascia 225mm wide	m	210.76
203	Replace short length of damaged or missing fascia or bargeboard with new 10mm fibre cement fascia 300mm wide	m	220.73
	<u>Fascia jointing strips</u>		
204	Standard H-profile jointing strips for 10mm fibrecement fascias and bargeboards 225mm long where missing or damaged	No	40.89
205	Standard H-profile jointing strips for 10mm fibrecement fascias and bargeboards 300mm long where missing or damaged	No	46.98
	<u>Galvanised sheet iron fascias</u>		
206	Replace short length of damaged or missing fascia or bargeboard with new 0.8mm galvanised sheet iron fascia or bargeboard 225mm wide	m	290.41
207	Replace short length of damaged or missing fascia or bargeboard with new 0.8mm galvanised sheet iron fascia or bargeboard 300mm wide	m	302.34
	<u>Eaves soffit linings</u>		
208	Replace damaged or missing eaves soffit lining with new 6mm medium density fibre cement flat board in isolated areas in repairs	m2	433.17
	<u>REPAIRS AND SUNDRIES TO DOORS, ETC</u>		
209	Re-hang timber door leaf (door leaf previously removed)	No	105.55
210	Adjust timber door for ease of swing and closing	No	136.06
	Bill No. 3 GENERAL REPAIRS TO EXISTING WORK		Initial here.....

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
<u>REPAIRS TO CEILINGS</u>			
<u>Softboard ceilings</u>			
211	Replace damaged or missing ceiling board or panel with new 12mm softboard ceiling board in repairs in isolated areas fixed to underside of existing brandering, including neat chamfered joint of new to existing	m2	302.91
212	Replace damaged or missing ceiling board or panel with new 12mm softboard ceiling board in repairs in isolated areas fixed to underside of existing brandering, including neat joint of new to existing <u>and including</u> 8 x 50mm wrot mearnti cover strips over joints between sheets	m2	328.15
<u>Gypsum plasterboard ceilings</u>			
213	Replace damaged or missing ceiling board or panel with new 9.5mm gypsum plasterboard ceiling board in repairs in isolated areas fixed to underside of existing brandering, including neat joint of new to existing with wire scrim and 'Rhinolyte'skimmed over the joints	m2	254.16
214	Replace damaged or missing ceiling board or panel with new 9.5mm gypsum rhinoboard ceiling board in repairs in isolated areas fixed to underside of existing brandering, including neat joint of new to existing <u>and including</u> 8 x 50mm wrot mearnti cover strips over joints between sheets	m2	280.90
<u>Medium density fibre cement flat boards</u>			
215	Replace damaged or missing ceiling board or panel with new 4mm medium density fibre cement flat board in repairs in isolated areas fixed to underside of existing brandering, including neat joint of new to existing with <u>and including</u> 8 x 50mm wrot meranti cover strips over joints	m2	177.02
216	Replace damaged or missing ceiling board or panel with new 6mm medium density fibre cement flat board in repairs in isolated areas fixed to underside of existing brandering, including neat joint of new to existing with <u>and including</u> 8 x 50mm wrot meranti cover strips over joints	m2	299.36
<u>Cornices and cover strips</u>			
217	Refix loose ceiling cover strips and cornices	m	20.29
218	Replace damaged or missing cover strip with new 8 x 50mm wrot meranti cover strip	m	38.05
219	Replace damaged or missing cornice with new 70mm coved gypsum cornice	m	77.13
220	Replace damaged or missing cornice with new 75mm coved fibre cement cornice	m	86.48
221	Replace damaged or missing cornice with new 18 x 69mm wrot meranti angle rounded cornice	m	83.92
<u>Suspended ceilings</u>			
222	Replace damaged or missing T-section to suspended ceiling with new T-section to match existing	m	66.90
Bill No. 3 GENERAL REPAIRS TO EXISTING WORK			
Initial here.....			

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
223	Replace damaged or missing ceiling panel with new 12.5mm gypsum vinyl covered fissured plasterboard ceiling board size 600 x 1200mm	No	632.29
224	Replace damaged or missing ceiling panel with new 15mm 'Prima Plain' ceiling panels size 600 x 600mm	No	787.29
225	Replace damaged or missing ceiling panel with new 15mm 'Prima Plain' ceiling panels size 600 x 1200mm	No	854.40
226	Replace damaged or missing ceiling panel with new 15mm 'Prima Dune Plus' ceiling panels size 600 x 600mm	No	838.51
227	Replace damaged or missing ceiling panel with new 15mm 'Prima Dune Plus' ceiling panels size 600 x 1200mm	No	938.80
228	Replace damaged or missing ceiling panel with new 15mm 'OWAcoustic Constellation 3' ceiling panels size 600 x 600mm	No	933.84
229	Replace damaged or missing ceiling panel with new 15mm 'OWAcoustic Constellation 3' ceiling panels size 600 x 1200mm	No	1,059.94
230	Replace damaged or missing ceiling panel with new 15mm 'OWAcoustic Futura 60' ceiling panels size 600 x 600mm	No	977.73
231	Replace damaged or missing ceiling panel with new 15mm 'OWAcoustic Futura 60' ceiling panels size 600 x 1200mm	No	1,140.92
<u>REPAIRS TO DRYWALL PARTITIONING</u>			
232	Replace damaged partition panel with new 12.7mm gypsum plasterboard wall board to one side only of 2.1m high partition with neat joint between new and existing with 'Rhino' tape and 'Readymix D' jointing compound skimmed and sanded smooth	m2	447.38
233	Replace damaged partition panel with new 12.7mm gypsum plasterboard wall board to one side only of 2.4m high partition with neat joint between new and existing with 'Rhino' tape and 'Readymix D' jointing compound skimmed and sanded smooth	m2	480.42
234	Replace damaged partition panel with new 12.7mm gypsum plasterboard wall board to one side only of 2.7m high partition with neat joint between new and existing with 'Rhino' tape and 'Readymix D' jointing compound skimmed and sanded smooth	m2	526.80
235	Replace damaged or missing skirting to partition with new 75mm high natural anodised aluminium skirting	m	213.58
<p>Bill No. 3 GENERAL REPAIRS TO EXISTING WORK</p> <p style="text-align: right;">Initial here.....</p>			

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
<u>REPAIRS TO FLOOR COVERINGS AND WALL LININGS</u>			
<u>Floor coverings</u>			
236	Replace damaged or missing tiles in repairs in isolated areas with new 300 x 300 x 2.5mm semi flexible vinyl tiles fixed adhesive including preparation	m2	459.36
237	Replace damaged or missing tiles in repairs in isolated areas with new 300 x 300 x 2mm fully flexible vinyl tiles fixed with adhesive including preparation	m2	576.54
238	Replace damaged or missing sheeting in repairs in isolated areas with new 2mm fully flexible vinyl sheeting with welded joints fixed with adhesive including preparation	m2	1,073.03
239	Replace damaged or missing sheeting in repairs in isolated areas with new 3.5mm heavy duty embossed fully flexible vinyl sheeting with welded joints fixed with adhesive including preparation	m2	1,442.13
240	Replace damaged or missing tiles in repairs in isolated areas with new 608 x 608 x 2mm electrostatic conductive vinyl tiles fixed with adhesive including preparation	m2	1,395.73
241	Replace damage or missing sheeting in repairs in isolated areas with new 2,5mm thick "Marmoleum" fully flexible linoleum floor sheeting with welded joints fixed adhesive including preparation	m2	1,281.61
242	Replace damage or missing tiles in repairs in isolated areas with new 500 x 500 x 8mm 'Florpoint' heavy duty carpet tiles fixed adhesive including preparation	m2	434.62
243	Replace damage or missing carpeting in repairs in isolated areas with new needle punched plain resin backed carpet heavy residential grade broadloom carpeting to match existing fixed with adhesive including preparation	m2	538.72
<u>Wall linings</u>			
244	Replace damage or missing sheeting to walls in repairs in isolated areas with new 1.25mm fully flexible vinyl sheeting with welded joints fixed with adhesive including preparation	m2	936.55
<u>Sundries</u>			
245	Replace damaged or missing skirting with new 70mm covered vinyl base skirting	m	93.87
246	Replace damaged or missing handrail covering with new vinyl handrail covering size 50 x 6mm	m	267.79
247	Replace damaged or missing stair nosing with new combined vinyl tread and stair nosing with ribbed tread pattern	m	249.93
Bill No. 3 GENERAL REPAIRS TO EXISTING WORK		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
<u>REPAIRS TO IRONMONGERY AND METALWORK</u>			
<u>Service and adjust and leave in proper working order</u>			
248	Service and adjust louvre drapes, including re-fixing vanes to bottom plates	m	212.03
249	Service and adjust venetian blinds	No	317.73
250	Service and adjust overhead door closer for proper closing	No	148.75
251	Service and adjust floor spring for proper closing	No	233.75
<u>Repairs to steel and timber windows</u>			
252	Replace missing or damaged mosquito gauze to steel, aluminium or timber flyscreen	m2	304.97
253	Replace missing or damaged galvanised chicken mesh gauze to steel, aluminium or timber flyscreen	m2	200.58
254	Re-fix loose flyscreen to steel window, including new fixing clips as may be necessary	No	93.33
255	Re-fix loose window handles, fanlight catches and sliding stays to steel windows with the proper screws and rivets as may be necessary	No	71.11
256	Re-fix loose window handles, fanlight catches and sliding stays to timber windows with the proper screws as may be necessary	No	78.13
257	Replace missing or damaged peg stay to steel or timber window with new solid brass or chromium plated peg stay 150mm long	No	83.16
258	Replace missing or damaged peg stay to steel or timber window with new solid brass or chromium plated peg stay 180mm long	No	91.10
259	Replace missing or damaged peg stay to steel or timber window with new solid brass or chromium plated peg stay 210mm long	No	116.26
260	Replace missing or damaged peg stay to steel or timber window with new solid brass or chromium plated peg stay 228mm long	No	112.84
261	Replace missing or damaged window handles to side hung sashes of steel or timber window with new solid brass or chromium plated window handles	No	79.56
262	Replace missing or damaged fanlight catches to bottom hung sashes of steel or timber window with new solid brass or chromium plated spring loaded fanlight catches	No	148.76
Bill No. 3			
GENERAL REPAIRS TO EXISTING WORK			
Initial here.....			

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
263	Adjust hinges of top, bottom or side hung steel sashes in steel windows so that sashes close properly	No	122.62
	<u>Roller shutter doors</u>		
264	Service and adjust manually operated industrial type roller shutter door size 1200 x 1200mm high, including fixing of loose rails, etc	No	583.88
265	Service and adjust manually operated industrial type roller shutter door size 1500 x 1200mm high, including fixing of loose rails, etc	No	853.35
266	Service and adjust manually operated industrial type roller shutter door size 2400 x 2100mm high, including fixing of loose rails, etc	No	1,043.45
267	Service and adjust crank operated industrial type roller shutter door size 3600 x 2400mm high, including fixing of loose rails, etc	No	1,592.77
268	Replace damaged slats of 1200mm wide industrial type roller shutter door with new slats (number of slats)	No	273.01
269	Replace damaged slats of 1500mm wide industrial type roller shutter door with new slats (number of slats)	No	314.98
270	Replace damaged slats of 2400mm wide industrial type roller shutter door with new slats (number of slats)	No	440.92
271	Replace damaged slats of 3600mm wide industrial type roller shutter door with new slats (number of slats)	No	546.01
	<u>Sundries</u>		
272	Adjust striker plate of lockset in steel or timber door frame so that door closes properly and with out rattling	No	58.01
273	Replace damaged or missing striker plate in steel or timber door frame	No	102.90
274	Re-fix loose pinning board or writing board to wall	No	81.58
275	Refix loose aluminium chalk rail to writing board	No	91.40
276	Replace missing or damaged chalk rail to 1200mm wide writing board with new aluminium chalk rail	No	288.18
277	Replace missing or damaged chalk rail to 1800mm wide writing board with new aluminium chalk rail	No	414.21
	Bill No. 3 GENERAL REPAIRS TO EXISTING WORK		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
278	Replace missing or damaged chalk rail to 2700mm wide writing board with new aluminium chalk rail	No	550.23
<u>REPAIRS TO EXISTING PLASTERED AND SCREEDED SURFACES</u>			
<u>Cement screeds steel trowelled or wood floated smooth</u>			
279	Prepare existing screeded or granolithic paved surfaces to receive new ceramic floor tiling (elsewhere measured)	m2	80.76
280	Repair crack in screeded floor surface by cutting a neat and straight joint with an angle grinder along both sides of the crack, hacking out the screed between 300mm wide, cleaning out the crack, wedging with galvanised steel wedges, stapling one layer of chicken mesh over the crack and rescreeding to match existing	m	108.24
281	Make good screed where half brick wall removed	m	50.74
282	Make good screed where one brick wall removed	m	64.48
<u>One coat external cement plaster wood floated smooth</u>			
283	Hack off external plaster in small isolated patches and replaster to match existing	m2	139.19
284	External plaster in making good walls where openings closed up including neat joint between new and existing plaster	m2	133.38
285	Make good external plaster where half brick wall removed	m	53.95
286	Make good external plaster where one brick wall removed	m	68.98
287	Repair crack in external plaster by hacking off the plaster around the crack minimum 300mm wide , cleaning out the crack, wedging with galvanised steel wedges, stapling one layer of chicken mesh over the crack and replastering to match existing	m	90.49
<u>One coat internal compo plaster steel trowelled smooth</u>			
288	Hack off internal plaster in small isolated patches and replaster to match existing	m2	143.38
289	Internal plaster in making good walls where openings closed up including neat joint between new and existing plaster	m2	135.30
290	Make good internal plaster where half brick wall removed	m	55.80
291	Make good internal plaster where one brick wall removed	m	70.89
<p>Bill No. 3 GENERAL REPAIRS TO EXISTING WORK</p> <p style="text-align: right;">Initial here.....</p>			

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
292	Repair crack in internal plaster by hacking off the plaster around the crack minimum 300mm wide , cleaning out the crack, wedging with galvanised steel wedges, stapling one layer of chicken mesh over the crack and replastering to match existing	m	96.28
	<u>Reinforcing of brick walls where required to receive plaster</u>		
293	Galvanised chicken mesh securely stapled to brick walls	m2	81.20
	<u>REPAIRS TO CERAMIC FLOOR AND WALL TILING</u>		
	<u>Soap dishes, toilet roll holders, etc</u>		
294	Replace missing or damaged toilet roll holder with new white glazed semi-recessed toilet roll holder size 150 x 150mm	No	211.38
295	Replace missing or damaged soap dish with new white glazed semi recessed single soap dish size 150 x 150mm	No	217.00
296	Replace missing or damaged soap dish with new white glazed semi recessed double soap dish size 300 x 150mm	No	259.94
	<u>152 x 152 x 5mm Thick white glazed ceramic wall tiles fixed with adhesive to plaster (elsewhere measured) and flush pointed with an approved cement based grout</u>		
297	Hack off wall tiling in small isolated patches and re-tile with new tiles to match existing	m2	471.98
298	Wall tiling in making good walls where openings closed up including neat joint between new and existing tiles	m2	466.09
299	Make good wall tiling where half brick wall removed	m	217.76
300	Make good wall tiling where one brick wall removed	m	280.40
301	Re-fix loose wall tiles	No	139.14
	<u>Take delivery of, transport to the site, store, protect and lay ceramic tiles fixed with and including adhesive to existing plastered surfaces or screeded surfaces (elsewhere measured) and flush pointed with an approved tinted waterproof jointing compound on (cost of ceramic tiles elsewhere)</u>		
302	Replace missing or damaged ceramic wall tiles with new in small isolated patches in repairs	m2	185.87
303	Replace missing or damaged ceramic floor tiles with new tiles in small isolated patches in repairs	m2	192.62
304	Replace missing or damaged ceramic skirting 100mm high with new skirting in small isolated lengths in repairs	m	51.74
	Bill No. 3 GENERAL REPAIRS TO EXISTING WORK		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
305	Replace missing or damaged ceramic riser tiles 170mm high with new tiles in small isolated areas in repairs	m	51.92
306	Replace missing or damaged ceramic tread tiles 275mm wide with new in small isolated areas in repairs	m	85.64
<u>REPAIRS TO FENCING</u>			
<u>Removal of existing gates (new gates elsewhere)</u>			
307	Removal existing single gate (all widths and heights)	No	206.02
308	Removal existing double gates (all widths and heights)	No	304.81
<u>Replace fencing mesh with new</u>			
309	Replace existing 900mm high fencing mesh with new 50mm galvanised daimond wire mesh fixed to existing straining wires	m	149.97
310	Replace existing 1200mm high fencing mesh with new 50mm galvanised daimond wire mesh fixed to existing straining wires	m	193.38
311	Replace existing 1800mm high fencing mesh with new 50mm galvanised daimond wire mesh fixed to existing straining wires	m	254.58
312	Replace existing 2100mm high fencing mesh with new 50mm galvanised daimond wire mesh fixed to existing straining wires	m	288.16
313	Replace existing 2400mm high fencing mesh with new 50mm galvanised daimond wire mesh fixed to existing straining wires	m	328.64
314	<u>Extra over</u> for Razormesh cladding to vertical face of fencing in lieu of diamond mesh	m2	102.06
<u>Replace fence posts with new including removing existing concrete base and providing new 20MPa concrete base</u>			
315	Replace existing fence post with new 50mm diameter fence post 2500mm high including new 300 x 300 x 750mm concrete base	No	774.07
316	Replace existing fence post with new 50mm diameter fence post 2700mm high including new 300 x 300 x 750mm concrete base	No	851.01
317	Replace existing fence post with new 50mm diameter fence post 3000mm high including new 300 x 300 x 750mm concrete base	No	931.76
<p>Bill No. 3 GENERAL REPAIRS TO EXISTING WORK</p> <p style="text-align: right;">Initial here.....</p>			

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
318	Replace existing inclined stay with new 50mm diameter inclined stay 3000mm long with one end bent to detail and bolted to post and the other end with sole plate including new 600 x 600 x 600mm concrete base	No	851.99
319	Replace existing fence post with new 100mm diameter fence post 2700mm high including new 450 x 450 x 600mm concrete base	No	1,650.82
320	Replace existing fence post with new 100mm diameter fence post 3000mm high including new 450 x 450 x 600mm concrete base	No	1,803.41
321	Replace existing fence post with new 100mm diameter fence post 3200mm high including new 450 x 450 x 600mm concrete base	No	1,920.18
	<u>Replace fence wires</u>		
322	Replace existing straining wire with new 2.5mm galvanised straining wire	m	4.72
323	Replace existing straining wire with new 4mm galvanised straining wire	m	7.05
324	Replace existing barbed wire with new 2.5mm galvanised double strand reverse twist barbed wire	m	6.32
325	<u>Extra over</u> for Razor Coil to top of security fencing in lieu of four rows of barbed wire	m	107.69
	<u>SUNDRY REPAIRS</u>		
	<u>Interlocking paving or precast slab pavings</u>		
326	Lift up interlocking paving stones or precast paving slabs where the surface has sagged in small isoalted areas, scarify and compact existing surface under, provide and lay additional base course and clean sand bedding as necessary and re-lay paving stones or paving slabs	m2	196.03
	END OF BILL		
	Bill No. 3 GENERAL REPAIRS TO EXISTING WORK		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>BILL No 3</u>		
	<u>REPAIRS TO PLUMBING AND DRAINAGE INSTALLATIONS</u>		
	<u>GUTTERS AND DOWN PIPES</u>		
	<u>Sealing of gutters and downpipes</u>		
327	Soldering of joints in galvanised steel gutters and downpipes not exceeding 300mm diameter or girth	m	25.88
328	Bituminous paint to insides of gutters not exceeding 300m diameter or girth	m	52.68
	<u>Repairs to gutters and downpipes</u>		
329	Adjust and re-align eaves gutter to correct falls	m	28.55
330	Replace missing or damaged gutter bracket to 150 x 125 x 150mm fibre cement VHV eaves gutter	No	47.96
331	Replace missing or damaged gutter bracket to 100mm half round galvanised sheet iron eaves gutter	No	45.10
332	Replace missing or damaged gutter bracket to 110mm PVC square profile eaves gutter	No	47.02
333	Replace missing or damaged holderbat to 100 x 75mm fibre cement down pipe	No	56.12
334	Replace missing or damaged holderbat to 100 x 75mm galvanised sheet iron down pipe	No	53.43
335	Replace missing or damaged holderbat to 110mm PVC square profile down pipe	No	74.27
336	Replace missing or damaged outlet shoe to 100 x 75mm fibre cement down pipe	No	172.04
337	Replace missing or damaged outlet shoe to 100 x 75mm galvanised sheet iron down pipe	No	164.14
338	Replace missing or damaged outlet shoe to 110mm PVC square profile down pipe	No	170.52
	<u>REPAIRS TO SANITARY FITTINGS</u>		
	<u>Repairs to w.c. suites and flushing valves</u>		
339	Clean out blockage in w.c.pan	No	233.82
340	Service, clean and adjust ball valve to w.c. cistern, including new washers as may be necessary	No	263.33
	Bill No. 4 REPAIRS TO PLUMBING AND DRAINAGE INSTALLATIONS Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
341	Service, clean and adjust beta valve flush unit to w.c. cistern, including new washers as may be necessary	No	313.21
342	Service, clean and adjust flushing valve to w.c. suite or urinal, including new washers as may be necessary	No	317.14
343	Replace missing or damaged 50mm flexible rubber cone to wc pan and flush pipe	No	249.55
344	Replace missing or damaged w.c. pan connector	No	214.70
345	Replace missing or damaged ball valve with plastic float unit to w.c. cistern	No	334.15
346	Replace missing or damaged beta valve flush unit to w.c. cistern	No	483.65
347	Replace missing or damaged beta valve flush unit complete with ball valve and plastic float to w.c. cistern	No	774.15
348	Replace missing or damaged duranite cistern lid	No	799.25
349	Replace missing or damaged glazed earthenware cistern lid	No	587.47
350	Replace missing or damaged cistern with new duranite cistern complete with lid, flushing mechanism and fitments	No	1,558.96
351	Replace missing or damaged cistern with new glazed earthenware cistern complete with lid, flushing mechanism and fitments	No	847.89
352	Replace missing or damaged w.c.seat with new heavy duty double seat and flap	No	362.51
353	Replace missing or broken w.c. pan with new white glazed earthenware pan	No	1,297.14
	<u>Re-fixing of existing sanitary fittings in new position (removal of sanitary fittings elsewhere measured)</u>		
354	Stainless steel or earthenware wash hand basin	No	372.85
355	High level or low level cistern with flush pipe	No	380.51
356	Stainless steel or earthenware w.c. suite with cistern and flush pipe	No	425.36
357	Stainless steel or earthenware bowl urinal	No	387.92
358	Stainless steel single or double bowl sink and drainer unit	No	379.38
359	Fire hose reel	No	393.45
	Bill No. 4 REPAIRS TO PLUMBING AND DRAINAGE INSTALLATIONS Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Sundries</u>		
360	Clean out blockage in waste pipes not exceeding 50mm diameter from cleaning eye	m	42.82
361	Clean out blockage in bottle trap or P- or S-trap	No	137.48
362	Service, clean and replace washer to tap	No	103.95
363	Replace missing or damaged head to bib tap or pillar tap with new chromium plated head to match existing	No	223.87
364	Cut into existing water pipe or remove existing stop valve and connect new stop valve (new valve elsewhere measured)	No	312.92
365	Replace damaged or broken ball valve to water tank with new 50mm ball valve	No	275.29
	<u>REPAIRS TO DRAINAGE INSTALLATIONS</u>		
	<u>Cleaning of sewage pipes by rodding or shooting open blocked pipe not exceeding 160mm diameter with access from rodding eye or manhole</u>		
366	Clean blocked pipes not exceeding 10m long	m	53.13
367	Clean blocked pipes exceeding 10m and not exceeding 20m long	m	69.76
368	Clean blocked pipes exceeding 20m and not exceeding 30m long	m	91.25
369	Clean blocked pipes exceeding 30m and not exceeding 40m long	m	105.98
370	Clean blocked pipes exceeding 40m and not exceeding 50m long	m	119.35
	<u>Clean out blockage in manholes, catch pits, etc</u>		
371	Clean out blocked manhole or catch pit not exceeding 1m deep	No	859.56
372	Clean out blocked manhole or catch pit exceeding 1m and not exceeding 2m deep	No	1,229.23
373	Pump out or clean out all sludge from septic tank or conservancy tank and dispose of in a suitable manner approved of by the local authority in an hygienic manner, including supplying all pumping equipment, protective clothing, etc (paid for at a cubic metre rate for the actual overall size of the tank)	m3	886.16
	<u>CUTTING THROUGH EXISTING WALLS AND FINISHES, ETC AND MAKING GOOD</u>		
374	Cut chase in existing brick wall for pipe and make good plaster and paint	m	40.63
	Bill No. 4 REPAIRS TO PLUMBING AND DRAINAGE INSTALLATIONS Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
375	Cut through existing concrete surface bed or apron not exceeding 100mm thick for laying of new pipe not exceeding 160mm diameter and make good concrete (new pipe elsewhere measured)	m	153.00
376	Cut through existing tarmac road surface for laying of new pipe not exceeding 160mm diameter and make good tarmac and base courses under (new pipe elsewhere measured)	m	172.03
377	Lift up existing interlocking paving stones or paving slabs for laying of new pipe not exceeding 160mm diameter and later re-lay (new pipe elsewhere measured)	m	132.87
378	Form hole through existing half brick wall for pipe not exceeding 100mm diameter and make good plaster and paint	No	84.62
379	Form hole through existing one brick wall for pipe not exceeding 100mm diameter and make good plaster and paint	No	135.34
380	Form hole through existing one and a half brick wall for pipe not exceeding 100mm diameter and make good plaster and paint	No	183.44
	END OF BILL		
	Bill No. 4 REPAIRS TO PLUMBING AND DRAINAGE INSTALLATIONS Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<p><u>BILL No 4</u></p> <p><u>PAINTWORK</u></p> <p><u>NOTES :</u></p> <p>1 All paints are to be applied in strict accordance with the manufacturer's instructions. Painting is to be done by brush, roller or spraying as may be recommended by the paint manufacturer.</p> <p>2 No paint is to be applied during cold weather conditions and all paint must be stored and protected from frost or other cold weather conditions.</p> <p>3 Prices must allow for painting in different colours and for cutting to line around fittings, windows, doors, etc.</p> <p>4 Cellulose fillers such as 'Polyfilla' and 'Aurora' are NOT acceptable. The stopping of surfaces to be painted is to be done with 'Polycell Mendall 90' or 'Pera Universal Repairing Compound' mixed with 30% marble dust.</p> <p>5 Prices for paintwork must include for the protection of other finished work, including masking or covering all finished paintwork, as well as finished joinery, tiling, floor coverings, etc during painting operations.</p> <p>6 All door handles, locks and other ironmongery, pelmets, electrical switch and socket outlet cover plates, etc are to be removed before painting and are to be re-fitted after completion of painting. All paint spots, stains, etc are to be cleaned off all floors, walls, glass, doors, frames, fittings, etc after completion of the paintwork.</p> <p>7 Prices must include for the preparation and stopping of all surfaces as necessary. This must include where applicable for the patching and filling of missing window putty before the painting of steel or timber windows.</p> <p>8 Previously painted and plastered surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and small cracks shall be opened, filled with a suitable filler as previously described and finished smooth.</p> <p style="padding-left: 20px;">Where necessary a coat of bonding liquid shall be applied to the plastered surface before applying any new coats of paint.</p> <p style="padding-left: 20px;">Prices must allow for priming or sealing small areas of new plaster where walls have been repaired and / or where openings have been formed through walls and reveals and surrounds have been made good in new plaster.</p> <p>9 Previously painted metal surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal.</p>		
	<p>Bill No. 5 PAINTWORK</p> <p style="text-align: right;">Initial here.....</p>		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
10	Previously painted or varnished wood surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with a suitable filler and finished smooth.		
	<u>PAINTWORK TO PREVIOUSLY PAINTED AND PLASTERED OR SCREEDED SURFACES</u>		
	<u>One coat bonding liquid</u>		
381	On internal smooth plastered walls and columns	m2	38.00
382	On internal smooth plastered ceilings and beams	m2	38.00
383	On off-shutter concrete walls and columns	m2	38.00
384	On off-shutter concrete ceilings and beams	m2	40.20
	<u>Clean down and prepare and one coat exterior quality PVA emulsion paint</u>		
385	On internal smooth plastered walls and columns	m2	50.48
386	On internal smooth plastered ceilings and beams	m2	51.18
387	On off-shutter concrete walls and columns	m2	50.48
388	On off-shutter concrete ceilings and beams	m2	52.61
389	Extra for additional one coat of paint	m2	23.47
	<u>Clean down and prepare and one coat Acrylic PVA paint</u>		
390	On internal smooth plastered walls and columns	m2	56.77
391	On internal smooth plastered ceilings and beams	m2	52.03
392	On external smooth plastered walls	m2	49.91
393	On external smooth plastered ceilings and beams	m2	52.03
394	On off-shutter concrete walls and columns	m2	49.91
395	On off-shutter concrete ceilings and beams	m2	52.03
396	Extra for additional one coat of paint	m2	23.47
	Bill No. 5 PAINTWORK		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Clean down and prepare and one coat eggshell enamel paint</u>		
397	On internal smooth plastered walls and columns	m2	72.64
398	On internal smooth plastered ceilings and beams	m2	76.38
399	Extra for additional one coat of paint	m2	36.56
	<u>Clean down and prepare and one coat gloss enamel paint</u>		
400	On internal smooth plastered walls and columns	m2	72.54
401	On internal smooth plastered ceilings and beams	m2	76.28
402	Extra for additional one coat of paint	m2	36.45
	<u>Clean down and prepare and one coat polyurethane velvet enamel paint</u>		
403	On internal smooth plastered walls and columns	m2	78.49
404	On internal smooth plastered ceilings and beams	m2	82.64
405	Extra for additional one coat of paint	m2	39.79
	<u>Clean down and prepare and one coat sealer and two coats marble plaster textured paint coating</u>		
406	On internal smooth plastered walls and columns	m2	164.27
407	On internal smooth plastered ceilings and beams	m2	173.58
408	On external smooth plastered walls	m2	164.27
409	On external smooth plastered ceilings and beams	m2	173.58
410	On off-shutter concrete walls and columns	m2	164.27
411	On off-shutter concrete ceilings and beams	m2	173.58
	<u>Clean down and etch screeded surface with 10% solution of hydrochloric acid and water and two full coats stoep enamel</u>		
412	On screeded floors and skirtings	m2	95.64
	Bill No. 5 PAINTWORK		
			Initial here.....

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>ON FIBRE-CEMENT</u>		
	<u>Clean down and prepare and one coat Acrylic PVA paint</u>		
413	On fascias and eaves soffit linings	m2	52.66
414	On ceilings, including cornices and cover strips	m2	52.66
415	On window cills	m2	50.45
416	On gutters and downpipes not exceeding 300mm girth	m	32.98
417	Extra for additional one coat of paint	m2	25.92
	<u>ON SOFTBOARD, ETC</u>		
	<u>Clean down and prepare and one coat exterior quality PVA emulsion paint</u>		
418	On ceilings, including cornices and cover strips	m2	49.82
419	Extra for additional one coat of paint	m2	32.70
	<u>Clean down and prepare and one coat roadmarking paint</u>		
420	On ceilings, including cornices and cover strips	m2	67.86
	<u>ON PLASTER BOARD</u>		
	<u>Clean down and prepare and one coat exterior quality PVA emulsion paint</u>		
421	On ceilings, including cornices and cover strips	m2	75.15
422	Extra for additional one coat of paint	m2	51.52
	<u>Clean down and prepare and one coat sealer and one coat marble plaster textured paint coating</u>		
423	On ceilings, including cornices and cover strips	m2	123.47
	<u>Clean down and prepare and one coat Acrylic PVA paint</u>		
424	On drywall partitions	m2	53.81
425	Extra for additional one coat of paint	m2	31.82
	Bill No. 5 PAINTWORK		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Clean down and prepare and one coat polyurethane velvet enamel paint</u>		
426	On drywall partitions	m2	90.87
427	Extra for additional one coat of paint	m2	55.97
	<u>ON PVC</u>		
	<u>Clean down and prepare and one coat Acrylic PVA paint</u>		
428	On PVC pipes not exceeding 300mm girth	m	25.25
	<u>ON METAL</u>		
	<u>Clean down and prepare and one coat gloss enamel paint</u>		
429	On door frames	m2	80.05
430	On windows with glazing bars (both sides measured flat)	m2	80.07
431	On windows with burglar bars (both sides measured flat)	m2	88.37
432	On transformer room doors and frames (both sides measured flat)	m2	80.07
433	On strong room and record room doors and frames (both sides measured flat)	m2	80.07
434	On exposed truss members, purlins, etc	m2	87.98
435	On gates, grilles, burglar screens, balustrades, etc. (both sides measured flat)	m2	88.43
436	On rails, bars, pipes, etc. not exceeding 300mm girth.	m	31.75
437	Extra for additional one coat of paint	m2	48.45
	<u>Clean down and prepare and one coat Acrylic PVA paint</u>		
438	On underside of profiled roof sheeting and ceilings (measured on flat to ceiling area)	m2	59.66
439	Extra for additional one coat of paint	m2	39.27
	<u>Clean down and prepare and one coat Acrylic Roof paint</u>		
440	On profiled roof sheeting and flashings (measured on flat to roof area)	m2	76.86
441	Extra for additional one coat of paint	m2	42.46
	Bill No. 5 PAINTWORK		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Clean down and prepare and one coat self-etching metal primer and one coat gloss enamel paint</u>		
442	On eaves gutters and downpipes	m2	69.52
443	On pipes not exceeding 100mm diameter	m	17.97
	<u>ON WOOD</u>		
	<u>Clean down and prepare and one coat clear matt polyurethane varnish</u>		
444	On door frames	m2	65.12
445	On flush doors	m2	71.62
446	On panelled and moulded doors	m2	71.62
447	On windows, glazed doors, etc (both sides measured flat)	m2	71.62
448	On joinery fittings, shelving, slatted seating, etc	m2	71.62
449	On skirtings, frames, rails, etc not exceeding 300 mm girth	m	24.54
450	Extra for additional one coat of paint	m2	36.80
	<u>Clean down and prepare and one coat clear gloss polyurethane varnish</u>		
451	On door frames	m2	63.96
452	On flush doors	m2	63.96
453	On panelled and moulded doors	m2	63.96
454	On windows, glazed doors, etc (both sides measured flat)	m2	63.96
455	On joinery fittings, shelving, slatted seating, etc	m2	63.96
456	On skirtings, frames, rails, etc not exceeding 300 mm girth	m	24.43
457	Extra for additional one coat of paint	m2	37.83
	<u>Clean down and prepare and one coat clear gloss exterior quality UV protected polyurethane varnish</u>		
458	On door frames	m2	70.73
	Bill No. 5 PAINTWORK		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
459	On flush doors	m2	70.73
460	On panelled and moulded doors	m2	70.73
461	On windows, glazed doors, etc (both sides measured flat)	m2	70.73
462	On skirtings, frames, rails, etc not exceeding 300 mm girth	m	26.08
463	Extra for additional one coat of paint	m2	40.20
<u>Clean down and prepare and one coat matt enamel paint</u>			
464	On door frames	m2	60.03
465	On flush doors	m2	60.03
466	On panelled and moulded doors	m2	60.03
467	On windows, glazed doors, etc (both sides measured flat)	m2	60.03
468	On joinery fittings, shelving, slatted seating, etc	m2	60.03
469	On skirtings, frames, rails, etc not exceeding 300 mm girth	m	24.30
470	Extra for additional one coat of paint	m2	35.26
<u>Clean down and prepare and one coat gloss enamel paint</u>			
471	On door frames	m2	60.67
472	On flush doors	m2	60.67
473	On panelled and moulded doors	m2	60.67
474	On windows, glazed doors, etc (both sides measured flat)	m2	60.67
475	On joinery fittings, shelving, slatted seating, etc	m2	60.67
476	On exposed trusses, rafters, beams, purlins, etc	m2	60.67
477	On skirtings, frames, rails, etc not exceeding 300 mm girth	m	22.20
478	Extra for additional one coat of paint	m2	34.93
Bill No. 5 PAINTWORK		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Clean down and prepare and one coat polyurethane velvet enamel paint</u>		
479	On door frames	m2	64.34
480	On flush doors	m2	64.34
481	On panelled and moulded doors	m2	64.34
482	On windows, glazed doors, etc (both sides measured flat)	m2	64.34
483	On joinery fittings, shelving, slatted seating, etc	m2	64.34
484	On exposed trusses, rafters, beams, purlins, etc	m2	64.34
485	On skirtings, frames, rails, etc not exceeding 300 mm girth	m	30.65
486	Extra for additional one coat of paint	m2	37.86
	END OF BILL		
	Bill No. 5 PAINTWORK		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>BILL No 5</u>		
	<u>NON-SCHEDULE WORK</u>		
	<u>NON-SCHEDULED MATERIALS</u>		
487	Percentage allowance to be added to the <u>NETT purchase cost of non-scheduled items excluding VAT</u> for profit and overhead costs		10.00%
	<u>LABOUR RATES</u>		
	<u>NOTE :</u>		
	1 The following labour rates must be INCLUSIVE all labour costs such as social security costs, pensions, bonuses and the like.		
	2 The labour rates must also be INCLUSIVE of all supervision costs, foremen cost and PROFIT on labour as no extra costs in connection herewith will be payable.		
488	Hourly all inclusive labour rate for a bricklayer or plasterer	Per Hr	64.29
489	Hourly all inclusive labour rate for a carpenter	Per Hr	81.71
490	Hourly all inclusive rate for a plumber	Per Hr	82.30
491	Hourly all inclusive labour rate for a general handyman, metalworker, etc	Per Hr	79.50
492	Hourly all inclusive labour rate for an artisan painter	Per Hr	62.24
493	Hourly all inclusive labour rate for a labourer	Per Hr	39.16
	<u>SELECTED SUB-CONTRACTORS</u>		
494	Percentage allowance to be added to the <u>NETT VALUE of the work of selected sub-contractors excluding VAT</u> for profit and attendance on the selected sub-contractors		10.00%
	<u>EMERGENCY CALL-OUTS</u>		
	<u>NOTE :</u>		
	1 Payment of Emergency All-Outs will only take place when the call-out is outside of normal working hours. Normal working hours are considered to be between 07h00 and 18h00 Monday to Friday inclusive.		
	2 Travelling time of labour will be apid at the al-inclusive labour rates stated above within this Bill.		
	Bill No. 6 NON-SCHEDULED WORK		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
495	Fixed cost for Emergney Call-Out	No	2,484.64
496	Kilometre rate for transport of materials and labour for journeys where the distance is more than 25km from the Home Base or Branch Office (i.e. 50km return journey)	KM	29.59
	END OF BILL		
	Bill No. 6 NON-SCHEDULED WORK		Initial here.....

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<p><u>MINOR NEW WORKS FOR MINISTRY OF DEFENCE AND VETERANS AFFAIRS BUILDINGS</u></p> <p><u>GENERAL NOTES</u></p> <p>1 THIS VOLUME MUST BE READ IN CONJUNCTION WITH VOLUME ONE OF THIS BID WITH PARTICULAR REFERENCE TO THE SPECIFICATIONS CONTAINED THEREIN.</p> <p>2 ALL PAGES OF THIS VOLUME INCLUDING THE COVER PAGE MUST BE INITIALLED IN BLACK INK.</p> <p>3 NO ALTERATIONS AT ALL MAY BE MADE TO THE TEXT, DESCRIPTIONS OR UNIT RATES OR PERCENTAGES STATED HEREIN.</p> <p>4 ALL RATES ARE INCLUSIVE OF VALUE ADDED TAX AT THE RATE OF 15%.</p>		
	<p>Bill No. 7 GENERAL NOTES</p> <p style="text-align: right;">Initial here.....</p>		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>BILL No 6</u>		
	<u>EARTHWORKS</u>		
	<u>NOTES:</u>		
1	The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with some "soft rock" or "hard rock".		
2	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site. It is the responsibility of the Contractor to locate a suitable dumping site.		
3	No risk of collapse will be measured or paid. It is the responsibility of the Contractor to ensure that the sides of the excavations are supported and that they do not collapse. In the event of the sides of the excavations collapsing, the Contractor must at his own cost remove all loose material and compact the bottoms of the trenches, holes, etc.		
	<u>BULK EXCAVATIONS, FILLING, ETC</u>		
	<u>Open face excavation in earth over sloping site</u>		
497	Open face excavation	m3	107.04
	<u>Extra over bulk excavation in earth for excavation in</u>		
498	Soft rock (the use of jack hammers is necessary)	m3	727.19
499	Hard rock (blasting is necessary)	m3	1,369.47
	<u>Extra over all excavations for carting away</u>		
500	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	70.86
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site</u>		
501	Over site to form platforms compacted to 93% Mod AASHTO	m3	102.53
502	Over site to form platforms compacted to 95% Mod AASHTO	m3	112.74
503	Over site to form platforms compacted to 98% Mod AASHTO	m3	118.85
	Bill No. 8 EARTHWORKS		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Compaction of surfaces</u>		
504	Compaction of ground surfaces including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASTHO density	m2	28.96
505	Compaction of ground surfaces including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASTHO density	m2	30.91
	<u>ORDINARY EXCAVATIONS, FILLING, ETC</u>		
	<u>Excavation in earth not exceeding 1m deep</u>		
506	Trenches and holes	m3	111.22
507	Reduce levels under floors	m3	109.38
508	Trenches in underpinning in alteranting sections not exceeding 2m long	m3	115.82
	<u>Excavation in earth exceeding 1m deep</u>		
509	Trenches and holes	m3	115.23
	<u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 93% Mod AASHTO density</u>		
510	Not exceeding 1m deep for placing and removing formwork to sides of ground beams, walls, etc and not exceeding 500mm away from excavated face	m2	56.37
	<u>Extra over trench and hole excavations in earth for excavations in</u>		
511	Soft rock	m3	727.73
512	Hard rock	m3	1,400.72
	<u>Extra over all excavations for spreading and levelling</u>		
513	Surplus material from excavations and/or stock piles on site as directed	m3	72.44
	<u>Extra over all excavations for carting away</u>		
514	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	73.02
	Bill No. 8 EARTHWORKS		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>			
515	Backfilling to trenches, holes, etc	m3	104.52
516	Backfilling behind retaining walls	m3	105.42
517	Under floors, steps, pavings, etc	m3	104.39
<u>Earth filling supplied by the contractor compacted to 93% Mod. AASHTO density</u>			
518	Backfilling to trenches, holes, etc	m3	434.94
519	Backfilling behind retaining walls	m3	434.94
520	Under floors, steps, pavings, etc	m3	434.94
<u>Compaction of filling</u>			
521	Extra over all filling compacted to 93% Mod AASHTO for compacting to 95% Mod AASHTO	m2	17.39
522	Extra over all filling compacted to 93% Mod AASHTO for compacting to 98% Mod AASHTO	m2	19.94
<u>Coarse river sand filling supplied by the contractor</u>			
523	Under floors etc	m3	377.09
524	Backfilling behind retaining walls	m3	377.09
<u>Soilcrete backfilling comprising 5% cement and 95% approved materials from the excavations</u>			
525	Soilcrete backfilling to trenches, holes, etc under footings, bases, etc	m3	1,126.85
<u>Soil poisoning</u>			
526	Soil insecticide under floors, paving, etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	18.95
527	Soil insecticide to bottoms of trenches, holes, etc	m2	18.95
END OF BILL			
Bill No. 8 EARTHWORKS		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>BILL No 7</u>		
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>		
	<u>CONCRETE WORK (UNREINFORCED AND REINFORCED)</u>		
	<u>Test Cubes</u>		
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Department of Works. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Department of Works.		
528	Making and testing 150 x 150 x 150mm concrete strength test cube	No	263.68
	<u>5MPa/38mm concrete</u>		
529	Blinding under footings, bases, etc	m3	2,421.41
	<u>15MPa/19mm Concrete</u>		
530	Footings and bases cast against excavated surfaces	m3	2,756.78
531	Surface beds, aprons, pavings, ramps, etc cast in panels	m3	2,756.78
532	Steps, machine bases, plinths, etc	m3	2,800.93
	<u>20MPa/19mm concrete</u>		
533	Footings, bases and ground beams	m3	3,075.15
534	Surface beds, aprons, pavings, ramps, etc cast in panels	m3	3,075.15
535	Steps, machine bases, plinths, etc	m3	3,075.15
536	Slabs including attached beams and inverted beams	m3	3,113.79
537	Stairs and landings, including beams and inverted beams	m3	3,113.79
538	Columns	m3	3,113.79
539	Walls	m3	3,113.79
540	Isolated beams and ring beams	m3	3,177.25
	Bill No. 9 CONCRETE, FORMWORK AND REINFORCEMENT		
			Initial here.....

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
<u>25MPa/19mm concrete</u>			
541	Footings, bases and ground beams	m3	3,404.18
542	Surface beds, aprons, pavings, ramps, etc cast in panels	m3	3,404.18
543	Steps, machine bases, plinths, etc	m3	3,404.18
544	Slabs including attached beams and inverted beams	m3	3,500.76
545	Stairs and landings, including beams and inverted beams	m3	3,500.76
546	Columns	m3	3,500.76
547	Walls	m3	3,500.76
548	Isolated beams and ring beams	m3	3,550.42
<u>30MPa/19mm concrete</u>			
549	Footings, bases and ground beams	m3	3,777.35
550	Surface beds, aprons, pavings, ramps, etc cast in panels	m3	3,777.35
551	Steps, machine bases, plinths, etc	m3	3,777.35
552	Slabs including attached beams and inverted beams	m3	3,777.35
553	Stairs and landings, including beams and inverted beams	m3	3,777.35
554	Columns	m3	3,777.35
555	Walls	m3	3,777.35
556	Isolated beams and ring beams	m3	3,777.35
<u>Concrete at coastal areas or otherwise as specifically required only</u>			
557	Extra over all classes or strengths of concrete for using cement with a minium fly-ash content of 30% or slagment of 19%	m3	683.84
Bill No. 9 CONCRETE, FORMWORK AND REINFORCEMENT		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth</u>			
558	Surface beds, slabs, aprons, pavings, etc with a wood float	m2	38.77
559	Surface beds, slabs, aprons, pavings, etc with a steel trowel	m2	40.91
560	Surface beds, slabs, aprons, pavings, etc with a power float	m2	48.00
561	Surface beds, slabs, aprons, pavings, etc with a power float including Masterplate floor hardener added at a rate of 7kg/m ²	m2	101.49
<u>Plastic sleeve pipes not exceeding 100mm diameter</u>			
562	Sleeve not exceeding 250mm long	No	45.06
<u>Grooves, channels, mortices, sinkings, etc in concrete</u>			
563	Groove or recess in top of concrete not exceeding 150mm girth	m	40.24
564	Drip groove to underside of concrete not exceeding 150mm girth	m	41.89
<u>40MPa non-shrink grout</u>			
565	Bedding approximately 20mm thick under base plates including chamfered edges all round	m2	664.61
<u>FORMWORK</u>			
<u>Notes:</u>			
<p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>Formwork to soffits of solid slabs, etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.</p>			
<p>Bill No. 9 CONCRETE, FORMWORK AND REINFORCEMENT</p> <p style="text-align: right;">Initial here.....</p>			

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<p>All horizontal and vertical edges of concrete are to be chamfered and prices for formwork must allow for small triangular fillets size approximately 10 x 10mm planted on to formwork to form the chamfers.</p> <p>Rough formwork shall have a surface finish to Degree of Accuracy III unless otherwise specified or described.</p> <p>The tolerances for all formwork shall be to Degree of Accuracy II unless otherwise described.</p> <p><u>Rough formwork to sides</u></p>		
566	Footings, bases, ground beams, stoolings, etc	m2	464.19
567	Rectangular, square and L-shaped columns	m2	463.10
568	Rectangular, square and L-shaped columns with total height exceeding 3.5m and not exceeding 5m above bearing level	m2	465.47
569	Walls	m2	473.10
570	Walls with total height exceeding 3.5m and not exceeding 5m above bearing level	m2	485.29
571	Beams including beams attached to slabs, wall beams, isolated beams, etc	m2	479.34
572	Inverted beams, edges, risers, ends and reveals exceeding 300mm high or wide	m2	478.02
573	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	135.43
574	Sloping and stepped outer edges of stairs not exceeding 300mm high or wide extreme	m	157.63
	<p><u>Rough formwork to soffits</u></p>		
575	Slabs	m2	463.96
576	Slabs propped up exceeding 3.5m and not exceeding 5m high	m2	584.79
577	Slabs exceeding 250mm and not exceeding 500mm thick	m2	533.83
578	Slabs over lift shafts and stair wells	m2	498.03
579	Landings	m2	470.60
580	Stairs with sloping soffits	m2	491.15
581	Ramps with sloping soffits	m2	505.78
	<p>Bill No. 9 CONCRETE, FORMWORK AND REINFORCEMENT</p> <p style="text-align: right;">Initial here.....</p>		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
582	Wall beams over openings	m2	491.18
	<u>Rough formwork to sides and soffits</u>		
583	Beams attached to slabs and isolated beams	m2	511.25
	<u>Boxing out rough formwork to form</u>		
584	Horizontal projection along top edge of concrete not exceeding 300mm girth	m	254.76
585	Horizontal projection along bottom edge of concrete not exceeding 300mm girth	m	258.62
	<u>Boxing in rough formwork to form</u>		
586	Horizontal recess along top edge of concrete not exceeding 150mm girth	m	133.07
587	Horizontal recess along bottom edge of concrete not exceeding 150mm girth	m	138.28
	<u>Rough formwork to form</u>		
588	Opening not exceeding 1m girth through slab not exceeding 250mm thick	No	289.28
589	Opening exceeding 1m and not exceeding 2m girth through slab not exceeding 250mm thick	No	415.47
590	Opening not exceeding 1m girth through wall not exceeding 250mm thick	No	375.91
591	Opening exceeding 1m and not exceeding 2m girth through wall not exceeding 250mm thick	No	437.52
	<u>Smooth formwork</u>		
592	Extra over all rough formwork to sides and soffits of concrete for smooth formwork to Degree of Accuracy II	m2	394.69
	<u>Permanent formwork</u>		
593	Soffits of slabs	m2	939.34
	<u>1.2mm Bond-lok 50/270mm galvanised steel decking and propping</u>		
594	Soffits of slabs	m2	1,478.37
	Bill No. 9 CONCRETE, FORMWORK AND REINFORCEMENT		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>MOVEMENT JOINTS ETC</u>		
	<u>Two layers of 250 micron damp proof membrane in horizontal slip joints on top of brick walls below beams or slabs including 10mm smooth plaster to top of wall</u>		
595	Slip joint not exceeding 300mm wide	m	52.83
	<u>Expansion joints with 10mm thick closed cell polyethylene between vertical concrete and or brick surfaces</u>		
596	Joints not exceeding 300mm wide	m	70.06
	<u>Saw cut joints</u>		
597	3 x 40mm Saw cut joints in top of concrete with top cut to 6 x 20mm	m	71.50
	<u>REINFORCEMENT</u>		
	<u>Fabric reinforcement</u>		
598	Type 193 fabric reinforcement in concrete surface beds, slabs, aprons, etc	m2	105.91
599	Type 245 fabric reinforcement in concrete surface beds, slabs, aprons, etc	m2	128.45
600	Type 311 fabric reinforcement in concrete surface beds, slabs, aprons, etc	m2	154.38
601	Type 395 fabric reinforcement in concrete surface beds, slabs, aprons, etc	m2	201.08
	<u>Mild steel reinforcement to structural concrete work cut, bent and fixed</u>		
602	12mm Diameter bars	kg	29.03
603	10mm Diameter bars	kg	29.03
604	8mm Diameter bars	kg	29.03
605	10mm Diameter dowel 250mm long with one end cast into concrete at expansion joint and other end greased and wrapped in plastic sheeting including hole in formwork	No	59.06
	<u>High tensile steel reinforcement to structural concrete work cut, bent and fixed</u>		
606	20mm Diameter bars	kg	29.03
607	16mm Diameter bars	kg	29.03
608	12mm Diameter bars	kg	29.03
	Bill No. 9 CONCRETE, FORMWORK AND REINFORCEMENT		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
609	10mm Diameter bars	kg	29.03
	<u>PRECAST CONCRETE</u>		
	<u>Modular precast concrete window surrounds finished smooth on all exposed faces including bedding jointing and pointing built into walls and pointed all round on both sides with 20 x 20mm square recessed joints</u>		
	<i>Notes :</i>		
	<i>Prices include for building in as single units or combinations of units in patterns of two or more window units.</i>		
	<i>Aluminium infill windows or glazing are separately measured.</i>		
610	Square block size 590 x 590 x 190mm	No	641.52
611	Square block size 590 x 590 x 260mm	No	749.78
612	Circular block size 590mm diameter x 260mm	No	903.23
	END OF BILL		
	Bill No. 9 CONCRETE, FORMWORK AND REINFORCEMENT <div style="text-align: right; margin-top: 10px;">Initial here.....</div>		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>BILL No 8</u>		
	<u>MASONRY</u>		
	<u>NOTES:</u>		
	1 Brickwork in foundations must include for brick reinforcement in <u>EVERY BRICK COURSE.</u>		
	2 Brickwork in superstructure (above surface bed level) must include for brick reinforcement every <u>FIFTH BRICK COURSE.</u>		
	<u>BRICK TESTS</u>		
	The costs of testing bricks shall include the cost of providing the necessary bricks for the purpose of testing, for testing costs and for submitting reports on the tests to the Department of Works. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Department of Works.		
613	Making and testing 150 x 150 x 150mm concrete strength test cube	No	253.33
	<u>BRICKWORK IN FOUNDATIONS</u>		
	<u>Brickwork of 7MPa cement bricks in class I mortar</u>		
614	Piers and mass brickwork	m3	3,669.78
615	Half brick wall	m2	455.83
616	One brick wall	m2	864.36
617	One and a half brick wall	m2	1,263.85
	<u>Brickwork of 14MPa cement bricks in class I mortar</u>		
618	Piers and mass brickwork	m3	4,042.60
619	Half brick wall	m2	488.88
620	One brick wall	m2	920.47
621	One and a half brick wall	m2	1,356.52
	Bill No. 10 MASONRY		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Standard 40MPa clay bricks in class II mortar</u>		
622	Piers and mass brickwork	m3	4,748.64
623	Half brick wall	m2	561.83
624	One brick wall	m2	1,061.94
625	One and half brickwall	m2	1,578.30
	<u>BRICKWORK IN SUPERSTRUCTURE</u>		
	<u>Brickwork of 7MPa cement bricks in class II mortar</u>		
626	Piers and mass brickwork	m3	3,601.52
627	Brick on edge wall (75mm wide)	m2	386.44
628	Half brick wall	m2	445.46
629	Half brick wall circular on plan	m2	478.60
630	Half brick wall in beamfilling	m2	481.08
631	One brick wall	m2	850.60
632	One brick wall circular on plan	m2	914.08
633	One brick wall in beamfilling	m2	923.88
	<u>Brickwork of 14MPa cement bricks in class II mortar</u>		
634	Piers and mass brickwork	m3	4,002.73
635	One brick wall	m2	904.02
636	One brick wall circular on plan	m2	965.78
637	One brick wall in beamfilling	m2	978.51
	<u>Standard 40MPa clay bricks in class II mortar</u>		
638	Piers and mass brickwork	m3	4,786.68
639	Half brick wall	m2	551.12
	Bill No. 10 MASONRY		
			Initial here.....

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
640	Half brick wall circular on plan	m2	552.24
641	Half brick wall in beamfilling	m2	551.25
642	One brick wall	m2	1,060.88
643	One brick wall circular on plan	m2	1,132.86
644	One brick wall in beamfilling	m2	1,058.98
<u>BRICKWORK SUNDRIES</u>			
<u>Brickwork sundries</u>			
645	Extra over for building to a fair face including bagging walls with a thin cement slurry to fill up all irregularities and flushing up vertical joints and ruling horizontal joints	m2	81.63
<u>Weep holes</u>			
646	50mm Diameter PVC pipe 240mm long including building through one brick wall	No	69.56
<u>Galvanised brick reinforcement</u>			
647	75mm Wide reinforcement built in horizontally (extra for brick lintols or bands)	m	5.30
648	150mm Wide reinforcement built in horizontally (extra for brick lintols or bands)	m	5.30
649	225mm Wide reinforcement built in horizontally (extra for brick lintols or bands)	m	5.58
<u>Galvanised hoop iron ties</u>			
650	1.6mm Galvanised hoop iron tie 30mm wide and 600mm girth shot fixed to concrete and built into brickwork	No	36.32
651	1.6mm Galvanised hoop iron tie 30mm wide and 750mm girth built into brickwork and wrapped around and spiked to wall plate	No	49.80
<u>Prestressed prefabricated lintels</u>			
652	105 x 75mm Lintels in lengths not exceeding 3m	m	116.35
653	105 x 75mm Lintels in lengths exceeding 3m	m	122.92
Bill No. 10 MASONRY		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Natural grey fibrecement window sills in single lengths bedded in class I mortar including metal fixing lugs etc</u>		
654	15 x 150mm sills set flat and slightly projecting	m	345.87
655	15 x 175mm sills set sloping and slightly projecting	m	394.65
	<u>Vermin proof air bricks and vents including forming opening in wall and rendering smooth all round in cement mortar</u>		
656	225 x 150mm Cast plaster vermin proof air vent	No	215.55
657	233 x 175mm Foam plastic vermin proof air vent	No	162.07
658	225 x 150mm Galvanised vermin proof air vent	No	270.17
659	229 x 152mm Clay vermin proof air brick	No	416.27
	<u>FACE BRICKWORK</u>		
	<u>Concrete S7 plain smooth face bricks as 'Henning Crusher' or other equal and approved in stretcher bond bedded, jointed and pointed in cement mortar with recessed horizontal and vertical joints</u>		
660	Extra over ordinary brickwork for face brickwork	m2	471.00
661	Extra over ordinary brickwork for face brickwork circular on plan	m2	525.80
662	Half brick wall faced and pointed on both sides	m2	821.00
663	Extra over all facings for coloured face bricks	m2	91.96
664	Fair raking cutting and waste	m	80.20
665	Fair circular cutting and waste	m	155.06
	<u>Extra over for lintels, sills, copings, etc</u>		
666	Extra over for brick-on -edge header course lintel	m	167.66
667	Extra over for brick-on -end soldier course lintel	m	173.50
668	Extra over for brick-on -edge header course sloping sill	m	202.98
669	Extra over for brick-on -edge header course coping to top of one brick wall	m	204.74
	Bill No. 10 MASONRY		
			Initial here.....

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Concrete S7 plain rock face bricks as 'Henning Crusher' or other equal and approved in stretcher bond bedded, jointed and pointed in cement mortar with recessed horizontal and vertical joints</u>		
670	Extra over ordinary brickwork for face brickwork	m2	582.79
671	Extra over ordinary brickwork for face brickwork circular on plan	m2	626.99
672	Half brick wall faced and pointed on both sides	m2	988.87
673	Extra over all facings for coloured face bricks	m2	331.86
674	Fair raking cutting and waste	m	85.63
675	Fair circular cutting and waste	m	227.21
	<u>Extra over for lintels, sills, copings, etc</u>		
676	Extra over for brick-on -edge header course lintel	m	114.37
677	Extra over for brick-on -end soldier course lintel	m	186.39
678	Extra over for brick-on -edge header course sloping sill	m	134.95
679	Extra over for brick-on -edge header course coping to top of one brick wall	m	144.39
	<u>QUARRY TILES</u>		
	<u>152 x 152 x 16mm Quarry tiles of an approved colour bedded, jointed and flush pointed in cement mortar with continuous joints in both directions</u>		
680	Floors, landings, etc on and including 20mm thick cement mortar bed	m2	983.36
681	Treads not exceeding 300mm wide on and including 20mm thick cement mortar bed	m	323.34
682	Risers not exceeding 300mm high on and including 20mm thick cement mortar bed	m	327.09
683	Sills 152mm wide set flat and slightly projecting on and including	m	262.87
684	Sills 152mm wide set sloping and slightly projecting on and including cement mortar bed	m	264.49
	Bill No. 10 MASONRY		
			Initial here.....

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>DECORATIVE GRILLE BLOCKS</u>		
	<u>'Balkenkreuz' modular precast concrete feature grille blocks size 388 x 388 x 100mm or other equal and approved finished smooth on exposed surfaces including bedding, jointing and pointing with square recessed joints</u>		
685	Panel size 1600 x 2000mm high overall	No	7,123.12
686	Panel size 2000 x 2000mm high overall	No	8,308.00
687	Panel size 4000 x 2000mm high overall	No	15,772.00
	END OF BILL		
	Bill No. 10 MASONRY		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>BILL No 9</u>		
	<u>WATERPROOFING</u>		
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>		
	<u>One layer of approved 375 micron embossed damp proof course</u>		
688	In walls (110mm and 220mm wide)	m2	41.80
	<u>One layer of approved 250 micron under surface bed type waterproof sheeting sealed at laps with pressure sensitive tape</u>		
689	Under surface beds, aprons, etc	m2	34.29
690	To sides and bottoms of trenches and holes	m2	34.29
	<u>One layer of 375 micron hyperlastic orange waterproof sheeting sealed at laps with pressure sensitive tape</u>		
691	Vertically behind retaining walls	m2	55.54
	<u>12mm Bitumen impregnated fibreboard</u>		
692	Vertically behind retaining walls	m2	143.49
	<u>Prepare and three coats bitumen paint</u>		
693	On concrete retaining walls	m2	120.45
694	On brick retaining walls including bagging	m2	158.22
	<u>Prepare and apply Sika Industrial Cemflex Universal Waterproofer applied in strict accordance with the manufacturer's instructions on</u>		
695	On concrete retaining walls	m2	383.40
696	On brick retaining walls including bagging	m2	428.55
	 Bill No. 11 WATERPROOFING		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>WATERPROOFING TO ROOFS, BASEMENTS, GUTTERS, ETC</u>		
	NOTE :		
1	Contractors shall lodge a ten year written guarantee on all roof and gutter waterproofing with the Department of Works prior to commencement of the work.		
2	Waterproofing shall only be applied by Contractors approved by the supplier of the waterproofing system and is to be laid in strict accordance with the manufacturer's instructions.		
3	Waterproofing to flat roofs is to be laid to a minimum fall of 1:60 to outlets, etc with necessary ridges, hips and valleys.		
4	Measurements will be to the full flat area of the roof to be waterproofed and to the full vertical area to be waterproofed. Prices must therefore include include for all additional labour in turn-ups or turn-downs as well as fibreglass bandage flashings at turn-ups or turn-downs.		
	<u>Prepare, prime and apply one layer 'ABE Index Unigum MS' or other equal and approved 4mm thick waterproofing membrane to concrete surfaces</u>		
697	On flat roofs	m2	563.11
	<u>Prepare, prime and apply one layer 'ABE Index Unigum P' or other equal and approved 4mm thick waterproofing membrane to concrete surfaces</u>		
698	Vertically behind retaining walls	m2	538.64
	<u>Prepare, prime with bitumen primer and apply one layer 'Derbigum SP' or other equal and approved 4mm thick torched-on fusion waterproofing membrane to screeded or plastered surfaces (screed and plaster elsewhere measured) including turn-ups</u>		
699	On flat roofs	m2	537.67
	<u>Prepare, prime and apply one layer 'Index Fidia P' membrane laid on plastered or screeded surface (plaster and screed elsewhere measured) or smooth concrete surfaces</u>		
700	On flat roofs	m2	549.85
	<u>Prepare, prime and apply one layer 3mm 'Index Fidia' and one layer 4.5kg/m² 'Index Fidia MS' exposed mineral surface waterproofing membrane to screeded or plastered surfaces (screed and plaster elsewhere measured) including turn-ups</u>		
701	On flat roofs	m2	662.71
	Bill No. 11 WATERPROOFING		
			Initial here.....

Item No		Unit	Rate
702	<p><u>Prepare, prime and apply one layer 3mm 'Index Fidia', one layer 4mm 'Index Fidia' mineral surface waterproofing membrane to screeded or plastered surfaces with and including 25mm 'Isoboard' layer on top and including one layer of 'Bidim' geotextile fibre (screed, plaster and upper stone layer elsewhere measured) including turn-ups, etc</u></p> <p>On flat roofs</p>	m2	708.99
703	<p><u>Prepare surface, apply one coat of Pro-Struct Neoprene Primer, one coat Pro-Struct Bituthene 3000 to joints and cracks, one coat Pro-Struct Bituthene 3000 and one coat Bituthene 5000 self adhesive cold applied membrane to the primed surface</u></p> <p>On flat roofs</p>	m2	759.43
704	<p><u>Prepare, prime and apply one layer 'Nam SP Mineral" or other equal and approved 4mm thick waterproofing membrane to concrete surfaces</u></p> <p>On flat roofs</p>	m2	872.86
705	<p><u>Prepare, prime and apply one layer 'Nam SP Mineral" or other equal and approved 4mm thick waterproofing membrane to screed or plastered surfaces including turn-ups (screed and plaster elsewhere measured)</u></p> <p>On flat roofs</p>	m2	864.37
706	<p><u>Prepare, prime and apply one layer 'Nam SP4000" or other equal and approved 4mm thick torched-on fusion waterproofing membrane to concrete surfaces</u></p> <p>Vertically behind retaining walls</p>	m2	888.93
707	<p><u>Prepare, prime and apply one layer 'Nam SP4000" or other equal and approved 4mm thick torched-on fusion waterproofing membrane to screeded or plastered surfaces including turnups (screed and plaster elsewhere measured)</u></p> <p>On flat roofs</p>	m2	902.29
708	<p><u>Prepare, prime and apply one layer 'Nam SP4000" or other equal and approved 4mm thick torched-on fusion waterproofing membrane to screeded or plastered surfaces including turnups (screed and plaster elsewhere measured) or smooth concrete surfaces</u></p> <p>On flat roofs</p>	m2	845.23
709	<p><u>Prepare, prime and apply one layer 'Nam SP4000" or other equal and approved 4mm thick torched-on fusion waterproofing membrane to screeded or plastered surfaces with and including 25mm 'Isoboard' or other equal and approved insulation material layer on top and ind including one layer of 'Bidim' or other equal and approved geotextile fibre including turnups (screed and plaster elsewhere measured)</u></p> <p>On flat roofs</p>	m2	1,596.28
	<p>Bill No. 11 WATERPROOFING</p> <p style="text-align: right;">Initial here.....</p>		

Item No		Unit	Rate
710	<p><u>Prepare surface apply one layer 'Nam SP4000" or other equal and approved 4mm thick torched-on fusion waterproofing membrane with 100mm overlaps</u></p> <p>On timber roofing boards</p>	m2	766.64
	<p><u>BITUMINOUS SHEETING</u></p> <p><u>One layer "ABE 2-ply Malthoid" slip sheet butt jointed and fixed with copper clout nails at 150mm centres with and including one layer 4mm thick "ABE Argo" applied by torch fusion</u></p>		
711	On timber roofing boards	m2	525.98
	<p><u>PROTECTIVE ROOFING PAINT</u></p> <p><u>Prepare and apply two coats approved bituminous aluminium paint in strict accordance with the manufacturers instructions</u></p>		
712	On waterproofing	m2	112.27
	<p><u>Prepare and apply two coats heavy duty acrylic emulsion paint in strict accordance with the manufacturers instructions</u></p>		
713	On waterproofing	m2	113.56
	<p><u>Prepare surface apply one layer 'Swepeco Aluminium Roofshield' or other equal and approved aluminium roof paint in strict accordance with the manufacturer's instructions</u></p>		
714	On waterproofing	m2	180.40
	<p><u>Prepare surface and apply two coats 'Swepeco Acrylic Enamel Metal Coating' or other equal and approved paint in strict accordance with the manufacturer's instructions</u></p>		
715	On waterproofing	m2	192.15
	<p><u>WATERSTOPS</u></p> <p><u>PVC waterstops cast into concrete</u></p>		
716	250mm Triple bulb waterstops	m	137.92
	<p><u>JOINT SEALANTS, ETC</u></p> <p><u>Two part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc.</u></p>		
717	6 x 6mm In saw cut joints in floors	m	79.95
	<p>Bill No. 11 WATERPROOFING</p> <p style="text-align: right;">Initial here.....</p>		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
718	3 x 20mm In saw cut joints in floors	m	106.93
719	10 x 10mm In vertical expansion joints including raking out polyethylene expansion joint filler as necessary	m	142.57
720	10 x 10mm In horizontal expansion joints including raking out polyethylene expansion joint filler as necessary	m	140.32
	<u>Flexothane HS Elastomeric Joint Sealant etc.</u>		
721	12 x 12mm In horizontal expansion joints including raking out polyethylene expansion joint filler as necessary	m	98.72
	<u>Clear silicone joint sealants</u>		
722	Silicone sealant to joint between tiles floors and timber or aluminium skirtings	m	36.45
	END OF BILL		
	Bill No. 11 WATERPROOFING		
			Initial here.....

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>BILL No 10</u>		
	<u>ROOF COVERINGS</u>		
	<u>PROFILED METAL ROOF SHEETING AND ACCESSORIES</u>		
	NOTE:		
1	All roof coverings unless otherwise stated are to pitches not exceeding 50°.		
2	All roof sheets must be in long lengths and where applicable must be in single length sheets (no end laps are permissible).		
3	Prices must allow for fixing to timber or to steel and for turning ends of sheets up or down at ridges, at headwalls and at eaves.		
	<u>0.5mm Galvanised corrugated iron (Z275 spelter) roof sheeting with 0.6mm galvanised sheet steel accessories fixed in strict accordance with the manufacturer's instructions</u>		
723	Roof sheeting	m2	418.25
724	Ridge capping 450mm girth	m	240.94
725	Hip capping 450mm girth	m	241.06
726	90° Bull nose at edge to 450mm radius	m	234.34
	<u>0.58mm 'IBR' profile full hard galvanised (Z275 spelter) steel troughed roofing with 0.8mm galvanised sheet steel accessories fixed in strict accordance with the manufacturer's instructions</u>		
727	Roof sheeting in single length sheets	m2	474.55
728	Ridge capping	m	253.93
729	Hip capping	m	253.62
730	Standard narrow and broad flute closers	m	125.05
731	Standard narrow and broad flute closers at valleys or hips	m	120.67
732	Moulded narrow and broad rib polyethylene filler blocks	m	110.51
733	Moulded narrow and broad rib polyethylene filler blocks at valleys or hips	m	112.16
	Bill No. 12 ROOF COVERINGS		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>0.5mm 'IBR 686' Aluzinc profile steel troughed roofing and all accessories fixed in strict accordance with the manufacturer's instructions with fastening brackets and fixing specifications for areas of strong winds according to "Clotan Steel" with all exposed roofing screws, bolts, etc sealed with a suitable acrylic waterproofing system</u>		
734	Roof sheeting in single length sheets	m2	492.83
735	Ridge capping	m	261.72
736	Hip capping	m	262.43
737	Standard narrow and broad flute closers	m	132.42
738	Standard narrow and broad flute closers at valleys or hips	m	135.66
739	Moulded narrow and broad rib polyethylene filler blocks	m	130.22
740	Moulded narrow and broad rib polyethylene filler blocks at valleys or hips	m	131.87
	<u>0.5mm 'Craftlok' profile or other equal and approved commercial quality uncoated steel alloy ribbed roofing and all accessories fixed in strict accordance with the manufacturer's instructions</u>		
741	Roof sheeting in single length sheets	m2	842.11
742	Ridge capping	m	304.49
743	Hip capping	m	304.49
744	Standard narrow and broad flute closers	m	158.64
745	Standard narrow and broad flute closers at valleys or hips	m	163.83
746	Moulded narrow and broad rib polyethylene filler blocks	m	146.17
747	Moulded narrow and broad rib polyethylene filler blocks at valleys or hips	m	147.82
	<u>0.58mm 'Craftlok ZincAlume AZ 200' profile or other equal and approved steel alloy ribbed roofing and all accessories fixed in strict accordance with the manufacturer's instructions with fastening brackets and fixing specifications for areas of strong winds according to "NEC Stah" with all exposed roofing screws, bolts, etc sealed with a suitable acrylic waterproofing system</u>		
748	Roof sheeting in single length sheets	m2	865.35
749	Ridge capping	m	306.53
	Bill No. 12 ROOF COVERINGS		
			Initial here.....

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
750	Hip capping	m	306.53
751	Standard narrow and broad flute closers	m	164.81
752	Standard narrow and broad flute closers at valleys or hips	m	169.57
753	Moulded narrow and broad rib polyethylene filler blocks	m	152.36
754	Moulded narrow and broad rib polyethylene filler blocks at valleys or hips	m	154.01
	<u>0.58mm "Kliplok 406" other equal and approved galvanised steel ribbed roofing with concealed fixing system with 0.8mm galvanised sheet steel accessories fixed in strict accordance with the manufacturer's instructions</u>		
755	Roof sheeting in single length sheets	m2	857.79
756	Extra over galvanised roof sheeting for Chromadek finish to upper surface in selected colours	m2	215.61
757	Ridge capping	m	310.90
758	Hip capping	m	300.76
759	Standard capping flashing	m	301.31
760	Standard baffle flashing	m	301.31
761	Standard counter flashing wedged into groove in brickwork, including groove and sealing with silicone	m	189.80
	<u>0.58mm "Brownbuilt" or other equal and approved galvanised steel ribbed roofing with concealed fixing system with 0.8mm galvanised sheet steel accessories fixed in strict accordance with the manufacturer's instructions</u>		
762	Roof sheeting in single length sheets	m2	936.90
763	Extra over galvanised roof sheeting for Chromadek finish to upper surface in selected colours	m2	227.55
764	Ridge capping	m	310.90
765	Hip capping	m	302.68
766	Standard capping flashing	m	295.75
767	Standard baffle flashing	m	301.31
	Bill No. 12 ROOF COVERINGS		
			Initial here.....

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
768	Standard counter flashing wedged into groove in brickwork, including groove and sealing with silicone	m	189.80
<u>PROFILED FIBRECEMENT ROOF SHEETING AND ACCESSORIES</u>			
NOTE:			
1	All roof coverings unless otherwise stated are to pitches not exceeding 50°.		
2	Prices must allow for fixing to timber or to steel.		
<u>Big Six corrugated profile roof sheeting fixed to timber or steel purlins in strict accordance with the manufacturer's instructions</u>			
769	Roof covering with end laps and side laps sealed	m2	765.61
770	Side cladding with end laps and side laps sealed	m2	772.32
771	Side apron flashing	m	406.99
772	Headwall apron flashing	m	402.27
773	Plain fixed angle ridge or hip capping	m	403.90
774	Close fitting adjustable ridge capping	m	421.82
775	Birdproofing piece	m	227.99
776	Eaves filler piece	m	245.58
777	Hip end cap	No	304.80
778	Ridge end cap	No	304.64
779	Junction of ridge with two hip cappings	No	382.50
<u>CONCRETE ROOF TILES</u>			
<u>Approved concrete roof tiles 'bold double roman profile' fixed in strict accordance with the manufacturer's instructions on an underlay of 400 micron plastic sheeting with 150mm lapped and sealed joints and nailed through underlay with non-corrosive tile nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm sawn softwood battens at maximum 320mm centres with the battens fixed to roof trusses (trusses elsewhere measured)</u>			
780	Roof covering with pitch not exceeding 26°	m2	507.90
Bill No. 12 ROOF COVERINGS			
Initial here.....			

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
781	Roof covering with pitch exceeding 26° and not exceeding 45°	m2	507.90
782	Roof covering with pitch exceeding 45°	m2	507.90
783	Extra for tilting batten	m	94.41
784	Gable roll ridge capping	m	299.56
785	V-ridge ridge capping	m	314.64
786	Verge tile	m	374.48
787	Gable roll end cap	No	263.51
788	V-ridge end cap	No	255.07
789	Close cut and mitred valley including bituminous felt soakers beneath and additional battens complete	m	407.37
<u>ROOF VENTILATORS</u>			
790	Whirly Bird' 300mm diameter galvanised slope mounted roof ventilator, including opening in roof sheeting and insulation material and flashing around and leaving completely water tight	No	2,857.34
<u>ROOF AND WALL INSULATION</u>			
<u>'Sisalation' or other equal and approved double-sided glass fibre reinforced aluminium foil bonded insulation</u>			
791	Type 405 light duty insulation laid taut over purlins (at approximately 1300mm centres) and fixed concurrent with roof covering including galvanized steel straining wires	m2	82.72
792	Type HF2 housing grade insulation laid taut over purlins (at approximately 1300mm centres) and fixed concurrent with roof covering including galvanized steel straining wires	m2	89.14
793	Type FR 405 medium duty insulation laid taut over purlins (at approximately 1300mm centres) and fixed concurrent with roof covering including galvanized steel straining wires	m2	112.05
794	Type FR 430 heavy duty insulation laid taut over purlins (at approximately 1300mm centres) and fixed concurrent with roof covering including galvanized steel straining wires	m2	126.75
<u>4mm "Alucushion" bubblefoil insulation with aluminium foil one side and white polyethylene other side or other equal and approved:</u>			
795	Insulation laid taut over purlins and fixed concurrent with roof covering and vertical cladding including galvanised steel straining wires	m2	97.85
Bill No. 12 ROOF COVERINGS			
Initial here.....			

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>SHEET METAL FLASHINGS, LININGS AND COPINGS</u>		
	<u>0.8mm Galvanised sheet iron</u>		
796	Cover flashing, headwall and sidewall flashings, valley gutters, copings, fascias, etc	m2	284.28
797	Extra over galvanised sheeting for Chromadek finish to upper surface in selected colours	m2	196.57
	<u>1mm Galvanised sheet iron</u>		
798	Cover flashing, headwall and sidewall flashings, valley gutters, copings, fascias, etc	m2	333.87
	<u>0.6mm Saftal aluminium sheet</u>		
799	Cover flashing, headwall and sidewall flashings, valley gutters, copings, fascias, etc	m2	833.78
	<u>2mm Mild steel</u>		
800	Box gutters, etc in varying sizes and shapes, including all laps, labours and sealing of joints, etc	m2	1,362.44
801	Extra over box gutters for stopped ends to gutters (measured to the nett area of the gutter size)	m2	535.28
802	Extra over box gutters for outlets of varying sizes and shapes	No	273.68
	END OF BILL		
	Bill No. 12 ROOF COVERINGS		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>BILL No 11</u>		
	<u>CARPENTRY WORK</u>		
	<u>ROOF CONSTRUCTION</u>		
	<u>Sawn Softwood Grade 4 with nailed or bolted connections</u>		
803	22mm Gutter or valley boarding	m2	616.36
804	38 x 50mm Timber in hangers, runners, etc	m	37.52
805	38 x 76mm Timber in joists, hangers, runners, etc	m	54.02
806	38 x 114mm Timber in wall plates, rafters, beams, joists, hangers, runners, etc	m	75.48
807	38 x 152mm Timber in wall plates, rafters, beams, joists, hangers, runners, etc	m	98.36
808	38 x 228mm Timber in wall plates, rafters, beams, joists, hangers, runners, etc	m	164.20
809	50 x 76mm Purlins	m	73.05
810	50 x 114mm Timber in wall plates, rafters, beams, joists, hangers, runners, etc	m	103.42
811	50 x 152mm Timber in wall plates, rafters, beams, joists, hangers, runners, etc	m	134.94
812	50 x 228mm Timber in wall plates, rafters, beams, joists, hangers, runners, etc	m	208.72
	<u>Wrot Softwood Grade 4</u>		
813	47 x 69mm Purlins	m	76.10
814	69 x 69mm Purlins	m	111.62
	<u>Wrot Lamstock Grade 5 timber</u>		
815	32 x 100mm Beams, rafters, etc in single lengths	m	135.55
816	32 x 133mm Beams, rafters, etc in single lengths	m	179.74
817	32 x 167mm Beams, rafters, etc in single lengths	m	219.44
818	45 x 167mm Beams, rafters, etc in single lengths	m	303.45
819	45 x 200mm Beams, rafters, etc in single lengths	m	351.73
	Bill No. 13 CARPENTRY WORK		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
820	45 x 233mm Beams, rafters, etc in single lengths	m	398.45
821	70 x 233mm Beams, rafters, etc in single lengths	m	596.41
822	70 x 267mm Beams, rafters, etc in single lengths	m	696.22
823	70 x 300mm Beams, rafters, etc in single lengths	m	766.47
<u>Sundries</u>			
824	Extra for wrot face to sawn timber	m2	25.79
825	Two coats creosote on sawn or wrot timbers	m2	41.17
826	1.6mm Galvanised hoop iron tie 30mm wide and 750mm girth wrapped around rafter and spiked to wall plate	No	30.00
827	50mm Diameter galvanised toothed timber connector	No	35.40
828	Galvanised hurricane clip fixed to purlins	No	27.92
829	Galvanised 90° truss hanger for 38mm timber	No	61.05
830	Galvanised 90° truss hanger for 50mm timber	No	80.78
<u>PREFABRICATED TIMBER ROOF TRUSSES</u>			
<u>NOTES :</u>			
1	Prices shall include for the supply, delivery, unloading , hoisting and erecting of the trusses, truly plumb and square on top of wall plates at the required centres and bracing as necessary during fixing .		
2	After fabrication all roof trusses are to be treated with an approved termite and insect poison solution before leaving the factory and the manufacturer of trusses must supply the Department of Works with a Certificate stating the brand of poison and that such poison has been applied in accordance with manufacturer's instructions. No trusses will be accepted by the Department of Works unless this requirement is met.		
3	Final designs of the roof trusses are to be submitted to the Department of Works for approval before commencement of fabrication .		
Bill No. 13 CARPENTRY WORK			
Initial here.....			

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
4	All timber is to be Grade 6.		
5	Rafters and ties passing through walls must be wrapped around with damp proof membrane.		
<u>Prefabricated single pitch roof trusses of Grade V/M6 timber with a pitch of not exceeding 10°</u>			
831	Single pitched truss with a clear span of not exceeding 2m and an overhang of not exceeding 900mm at eaves	No	1,180.96
832	Single pitched truss with a clear span of exceeding 2m and not exceeding 4m and an overhang of not exceeding 900mm at eaves	No	1,927.16
833	Single pitched truss with a clear span of exceeding 4m and not exceeding 6m and an overhang of not exceeding 900mm at eaves	No	3,387.94
<u>Prefabricated double pitch roof trusses of Grade V/M6 timber with a pitch of not exceeding 10°</u>			
834	Double pitched truss with a clear span of not exceeding 2m and an overhang of not exceeding 900mm at eaves on both sides	No	1,227.62
835	Double pitched truss with a clear span of exceeding 2m and not exceeding 4m and an overhang of not exceeding 900mm at eaves on both sides	No	2,012.05
836	Double pitched truss with a clear span of exceeding 4m and not exceeding 6m and an overhang of not exceeding 900mm at eaves on both sides	No	3,690.34
837	Double pitched truss with a clear span of exceeding 6m and not exceeding 8m and an overhang of not exceeding 900mm at eaves on both sides	No	4,762.17
838	Double pitched truss with a clear span of exceeding 8m and not exceeding 10m and an overhang of not exceeding 900mm at eaves on both sides	No	5,684.09
<u>Prefabricated single pitch roof trusses of Grade V/M6 timber with a pitch of exceeding 10° and not exceeding 25°</u>			
839	Single pitched truss with a clear span of not exceeding 2m and an overhang of not exceeding 900mm at eaves	No	1,402.69
840	Single pitched truss with a clear span of exceeding 2m and not exceeding 4m and an overhang of not exceeding 900mm at eaves	No	2,143.14
841	Single pitched truss with a clear span of exceeding 4m and not exceeding 6m and an overhang of not exceeding 900mm at eaves	No	3,368.73
Bill No. 13 CARPENTRY WORK		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Prefabricated double pitch roof trusses of Grade V/M6 timber with a pitch of exceeding 10 and not exceeding 25°</u>		
842	Double pitched truss with a clear span of not exceeding 2m and an overhang of not exceeding 900mm at eaves on both sides	No	1,509.11
843	Double pitched truss with a clear span of exceeding 2m and not exceeding 4m and an overhang of not exceeding 900mm at eaves on both sides	No	2,358.99
844	Double pitched truss with a clear span of exceeding 4m and not exceeding 6m and an overhang of not exceeding 900mm at eaves on both sides	No	3,946.35
845	Double pitched truss with a clear span of exceeding 6m and not exceeding 8m and an overhang of not exceeding 900mm at eaves on both sides	No	5,101.82
846	Double pitched truss with a clear span of exceeding 8m and not exceeding 10m and an overhang of not exceeding 900mm at eaves on both sides	No	6,314.44
	<u>EAVES AND VERGES</u>		
	<u>Sawn Softwood</u>		
847	38 x 50mm Brandering in widths not exceeding 900mm wide at 450mm centres in one direction and at ends fixed to underside of or in between timber rafters and trusses	m2	61.46
	<u>Medium density fibre cement fascias and bargeboards</u>		
848	15mm Fascias and bargeboards 225mm wide plain finished with and including standard H-profile jointing strips and corner jointers fixed to ends of rafters and battens with and including 40 x 40 x 3mm mild steel angles 100mm long bolted to rafters	m	435.40
849	15mm Fascias and bargeboards 300mm wide plain finished with and including standard H-profile jointing strips and corner jointers fixed to ends of rafters and battens with and including 40 x 40 x 3mm mild steel angles 150mm long bolted to rafters	m	587.30
	<u>Medium density fibre cement flat boards</u>		
850	6mm Flat sheet in eaves soffit linings not exceeding 900mm wide fixed to brandering (elsewhere measured) with butt joints between sheets	m2	942.50
851	Extra on flat sheeting to eaves soffits for 8 x 50mm wrot hardwood cover strips at joints between sheets and 19mm wrot hardwood quadrant beads at junctions with walls and rafters	m2	63.23
	Bill No. 13 CARPENTRY WORK		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>ROOF BOARDING</u>		
	<u>Wattleboard</u>		
852	22mm Thick tongued and grooved roof boarding in 100mm widths nailed to trusses or rafters at not exceeding 1000mm centres	m2	553.48
	<u>SKIRTINGS</u>		
	<u>Wrot Meranti</u>		
853	19mm Quadrant bead planted on	m	25.01
854	19 x 69mm Skirting plugged to walls	m	69.67
855	19 x 69mm Skirting stepped to profile of treads and risers plugged to walls	m	88.69
	<u>FRAMES, LININGS, BEADS, ETC</u>		
	<u>Wrot Meranti</u>		
856	19mm Quadrant bead planted on	m	28.60
857	19mm Half round bead planted on	m	33.29
858	47 x 69mm Rebated door or gate post ountersunk plugged , screwed and pelleted to brickwork	m	218.47
859	47 x 69mm Rebated door frame to suit 40mm door size 813 x 2032mm high countersunk plugged, screwed and pelleted to brickwork	No	939.86
860	47 x 69mm Rebated door frame to suit 40mm door size 813 x 2032mm high with 300mm high rebated fanlight over and countersunk plugged, screwed and pelleted to brickwork	No	2,224.76
861	47 x 69mm Rebated door frame to suit 40mm door size 1511 x 2032mm high countersunk plugged, screwed and pelleted to brickwork	No	2,058.06
862	47 x 69mm Rebated door frame to suit 40mm door size 1511 x 2032mm high with 300mm high rebated fanlight over and countersunk plugged, screwed and pelleted to brickwork	No	3,533.14
863	69 x 102mm Rebated door frame to suit 40mm door size 813 x 2032mm high countersunk plugged, screwed and pelleted to wall	No	1,542.63
864	69 x 102mm Rebated door frame to suit 40mm door size 813 x 2032mm high with 300mm high rebated fanlight over and countersunk plugged, screwed and pelleted to wall	No	3,030.63
	Bill No. 13 CARPENTRY WORK		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
865	69 x 102mm Rebated door frame to suit 40mm door size 1511 x 2032mm high countersunk plugged, screwed and pelleted to wall	No	2,780.65
866	69 x 102mm Rebated door frame to suit 40mm door size 1511 x 2032mm high with 300mm high rebated fanlight over and countersunk plugged, screwed and pelleted to wall	No	3,778.31
<u>FLUSH DOORS</u>			
<u>40mm Thick hollow cored flush doors with hardboard covering on both sides and concealed hardwood edge strips</u>			
867	Door size 762 x 2032mm high	No	1,477.94
868	Door size 813 x 2032mm high	No	1,477.94
869	Double door size 1511 x 2032mm high with rebated meeting stiles	No	3,012.93
<u>40mm Semi-solid flush doors with hardboard covering both sides and concealed hardwood edge strips</u>			
870	Door size 762 x 2032mm high	No	2,133.59
871	Door size 813 x 2032mm high	No	2,048.19
872	Double door size 1206 x 457mm high with rebated meeting stiles	No	2,596.00
873	Double door size 1206 x 2032mm high with rebated meeting stiles	No	3,478.23
874	Double door size 1511 x 457mm high with rebated meeting stiles	No	2,951.16
875	Double door size 1511 x 2032mm high with rebated meeting stiles	No	4,209.06
<u>40mm Semi-solid flush doors with hardwood veneer both sides and concealed hardwood edge strips</u>			
876	Door size 762 x 2032mm high	No	3,176.88
877	Door size 813 x 2032mm high	No	2,999.43
878	Double door size 1511 x 2032mm high with rebated meeting stiles	No	4,955.33
<u>44mm Solid laminated flush doors with hardwood veneer on both sides and concealed edge strips</u>			
879	Door size 762 x 2032mm high	No	3,190.53
Bill No. 13 CARPENTRY WORK			
Initial here.....			

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
880	Door size 813 x 2032mm high	No	3,191.63
881	Double door size 1511 x 2032mm high with rebated meeting stiles	No	5,581.55
	<u>"Bitcon Industries" fire doors with commercial veneer or other equal and approved</u>		
882	"Rubidor" class B fire door size 813 x 2032mm high with and including 1.6mm pressed steel door frame for 220mm brick wall and preparing frame for door closer and lock (elsewhere measured)	No	12,798.18
	<u>FRAMED DOORS AND FANLIGHTS</u>		
	<u>Wrot Meranti</u>		
883	40mm Fanlight size 813 x 305mm high formed of 70mm framing open rebated around for glass (elsewhere measured) in one pane and fitted with 15 x 25mm glazing beads mitred around and bradded in	No	1,303.09
884	40mm Fanlight size 1511 x 305mm high formed of 70mm framing open rebated around for glass (elsewhere measured) in one pane and fitted with 15 x 25mm glazing beads mitred around and bradded in	No	2,063.61
885	50 x 58mm Moulded weather bar fitted to bottom of 813mm wide timber door	No	208.33
886	44mm Framed, ledged, braced and battened door size 813 x 2032mm high formed of 44 x 108mm stiles and top rail, 22 x 108mm middle ledge, 22 x 228mm bottom ledge and 22 x 108mm diagonal braces and filled in with 22mm tongued, grooved and v-jointed vertical boarding in narrow matched widths	No	4,705.36
887	44mm Framed, ledged, braced and battened double door size 1511 x 2032mm high overall in two equal leaves with rebated meeting stiles, each leaf formed of 44 x 108mm stiles and top rail, 22 x 108mm middle ledge, 22 x 228mm bottom ledge and 22 x 108mm diagonal braces and filled in with 22mm tongued, grooved and v-jointed vertical boarding in narrow matched widths	No	9,360.75
888	44mm Framed, ledged, braced and battened double door size 1613 x 2032mm high overall in two equal leaves with rebated meeting stiles, each leaf formed of 44 x 108mm stiles and top rail, 22 x 108mm middle ledge, 22 x 228mm bottom ledge and 22 x 108mm diagonal braces and filled in with 22mm tongued, grooved and v-jointed vertical boarding in narrow matched widths	No	9,750.75
889	44mm Framed, ledged, braced and battened flush back door size 813 x 2032mm high formed of 44 x 108mm stiles and top rail, 22 x 108mm middle ledge, 22 x 228mm bottom ledge and 22 x 108mm diagonal braces and filled in with 22mm tongued, grooved and v-jointed vertical boarding in narrow matched widths and the rear face covered with hardwood veneer plywood panels	No	4,925.79
890	44mm Framed, ledged, braced and battened double door size 1511 x 2032mm high overall in two equal leaves with rebated meeting stiles, each leaf formed of 44 x 108mm stiles and top rail, 22 x 108mm middle ledge, 22 x 228mm bottom ledge and 22 x 108mm diagonal braces and filled in with 22mm tongued, grooved and v-jointed vertical boarding in narrow matched widths the rear face covered with hardwood veneer plywood panels	No	9,800.31
	Bill No. 13 CARPENTRY WORK		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
891	44mm Framed, ledged, braced and battened double door size 1613 x 2032mm high overall in two equal leaves with rebated meeting stiles, each leaf formed of 44 x 108mm stiles and top rail, 22 x 108mm middle ledge, 22 x 228mm bottom ledge and 22 x 108mm diagonal braces and filled in with 22mm tongued, grooved and v-jointed vertical boarding in narrow matched widths the rear face covered with hardwood veneer plywood panels	No	10,190.31
	<u>TIMBER WINDOWS AND SLIDING DOORS</u>		
	<u>Wrot hardwood top hung windows with a linseed oil-based transit stabilizing sealer and a seven year guarantee fixed in position in plastered openings in accordance with the manufacturer's instructions</u>		
892	Window type SD 1 size 545 x 600mm high (0.187m ² glass area)	No	2,937.34
893	Window type SF 1 size 545 x 1155mm high (0.374m ² glass area)	No	4,676.28
894	Window type SD 22 size 1045 x 600mm high (0.374m ² glass area)	No	6,020.03
895	Window type SF 2 size 1045 x 1155mm high (0.858m ² glass area)	No	5,752.90
896	Window type SF 3 size 1545 x 1155mm high (1.391m ² glass area)	No	6,178.54
	<u>Wrot hardwood side hung windows with a linseed oil-based transit stabilizing sealer and a seven year guarantee fixed in position in plastered openings in accordance with the manufacturer's instructions</u>		
897	Window type SC 1 size 545 x 900mm high (0.311m ² glass area)	No	2,954.29
898	Window type SC 1F size 545 x 900mm high (0.317m ² glass area)	No	2,977.00
899	Window type SB 1 size 545 x 1200mm high (0.431m ² glass area)	No	3,487.51
900	Window type SC 2 size 1045 x 900mm high (0.679m ² glass area)	No	3,392.52
901	Window type SC 22 size 1045 x 900mm high (0.622m ² glass area)	No	5,419.99
902	Window type SB 2 size 1045 x 1200mm high (0.936m ² glass area)	No	4,503.47
903	Window type SB 2F size 1045 x 1200mm high (0.884m ² glass area)	No	5,956.81
904	Window type SA 2F size 1045 x 1500mm high (1.143m ² glass area)	No	6,739.75
905	Window type SC 3 size 1545 x 900mm high (0.991m ² glass area)	No	6,293.42
906	Window type SB 3F size 1545 x 1200mm high (1.315m ² glass area)	No	8,779.24
	Bill No. 13 CARPENTRY WORK		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Wrot hardwood small paned side hung windows with a linseed oil-based transit stabilizing sealer and a seven year guarantee fixed in position in plastered openings in accordance with the manufacturer's instructions</u>		
907	Window type SD 1SP size 545 x 600mm high (0.165m ² glass area)	No	2,898.90
908	Window type SD 22SP size 1045 x 600mm high (0.331m ² glass area)	No	5,135.09
909	Window type SC 1SP size 545 x 900mm high (0.276m ² glass area)	No	3,479.58
910	Window type SB 1FSP size 545 x 1200mm high (0.357m ² glass area)	No	4,535.65
911	Window type SB 1SP size 545 x 1200mm high (0.382m ² glass area)	No	4,153.07
912	Window type SC 2SP size 1045 x 900mm high (0.552m ² glass area)	No	5,269.75
913	Window type SC 22SP size 1045 x 900mm high (0.552m ² glass area)	No	6,348.30
914	Window type SB 2SP size 1045 x 1200mm high (0.764m ² glass area)	No	6,128.38
915	Window type SB 22SP size 1045 x 1200mm high (0.764m ² glass area)	No	7,671.05
916	Window type SA 2FSP size 1045 x 1500mm high (0.951m ² glass area)	No	9,236.62
917	Window type SC 3SP size 1545 x 900mm high (0.828m ² glass area)	No	8,520.30
918	Window type SB 3FSP size 1545 x 1200mm high (1.018m ² glass area)	No	12,391.21
	<u>Wrot hardwood sliding doors with frames with a linseed oil-based transit stabilizing sealer and a seven year guarantee fixed in position in plastered openings in accordance with the manufacturer's instructions</u>		
919	Sliding door with frame type SSD 1.8 size 1800 x 2140mm high (2.443m ² glass area)	No	21,954.06
920	Sliding door with frame type SSD 2.1 size 2100 x 2140mm high (2.931m ² glass area)	No	22,286.38
921	Sliding door with frame type SSDP 1.8 size 1800 x 2140mm high (2.083m ² glass area)	No	20,668.25
922	Sliding door with frame type SSDP 2.1 size 2100 x 2140mm high (2.527m ² glass area)	No	19,699.37
	END OF BILL		
	Bill No. 13 CARPENTRY WORK		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<p><u>BILL No 12</u></p> <p><u>JOINERY WORK</u></p> <p><u>NOTE :</u></p> <p>1 Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.</p> <p>2 Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type</p> <p>3 Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc. Descriptions of hardwood joinery shall be deemed to include pelleting of screw and bolt holes.</p> <p>4 Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish. All particle or other pressed wood boards with a laminate finish must have a brown backing or balancing veneer on unexposed faces.</p> <p>5 The following cupboard fittings have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, gluing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finishes, glass, ironmongery, metalwork, paint finishes, etc as specified and prices must include herefore.</p> <p>6 All cupboard units are to sealed around with an approved silicone sealant at the joints between walls, floors and other finishes and fittings.</p> <p>7 Worktops, where specified, are to be of 32mm particle board with Delta 90° postformed front edges with 'Formica' HPL or other equal and approved laminate on one side and balancing veneer on underside.</p> <p>8 Doors, drawer fronts and drawer carcassess are to be of 16mm 'Melawood' or other equal and approved faced both sides with 3mm thick rigid 'Raukantex' or other equal and approved PVC edge strips all round.</p> <p>9 Drawer carcasses are to have 6mm white faced tempered hardboard bottoms.</p>		
	<p>Bill No. 14 JOINERY WORK</p> <p style="text-align: right;">Initial here.....</p>		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
10	Handles are to be 'Union' AL5102-25AS cupboard door knobs 25mm diameter or other equal and approved.		
11	Doors not exceeding 900mm high are to be fitted with two 110° self closing hinges. Doors higher than 900mm are to have three hinges.		
12	Cupboard door locks where specified are to be cupboard cylinder locks. Where lockable cupboard doors are in two leaves, the one leaf is to have a lock as specified and the other leaf is to be fitted with two chromium plated necked cupboard barrel bolts and keeps.		
13	Drawers are to be fitted with suitable proprietary drawer slides.		
14	Sides, divisions, shelves and bottoms, etc are to be of 18mm 'Melawood' or other equal and approved faced both sides with 3mm thick rigid 'Raukantex' or other equal and approved PVC edge strips all round.		
15	Plinths are to be 100mm high with either solid softwood supporting bearers or a proprietary supporting system with adjustable feet. Plinth fronts are to be of two 18mm particle board with 'Deccon' CPL or other equal and approved facing or of 18mm Supawood or other equal and approved painted with and including two coats polyurethane enamel.		
16	Prices must include for all necessary filler pieces, framing, etc.		
	<u>SLATTED SEATING</u>		
	<u>Wrot Meranti</u>		
923	Slatted seating of 32 x 47mm angle rounded slats at 65mm centres screwed to metal bearers (elsewhere measured) from underside	m2	1,119.57
	<u>CHAIR AND BUMP RAILS</u>		
	<u>Wrot Meranti</u>		
924	22 x 200mm Chair rail countersunk plugged and screwed to wall	m	248.00
	<u>Supawood or other equal and approved</u>		
925	22 x 200mm Chair rail countersunk plugged and screwed to wall	m	154.91
	Bill No. 14 JOINERY WORK		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>PELMETS</u>		
	<u>Wrot Meranti</u>		
926	Pelmet in varying lengths formed of 18 x 120mm top and 16 x 140mm fascia and ends housed together, including all mitres, etc	m	580.10
	<u>Supawood or other equal and approved</u>		
927	Pelmet in varying lengths formed of 18 x 120mm top and 16 x 140mm fascia and ends housed together, including all mitres, etc	m	307.06
	<u>GENERAL JOINERY, SHELVING, ETC</u>		
	<u>Wrot Softwood</u>		
928	22 x 32mm Bearers, rails, etc	m	85.84
929	22 x 32mm Bearers, rails, etc plugged to walls	m	95.63
930	22 x 47mm Bearers, rails, etc	m	88.62
931	22 x 47mm Bearers, rails, etc plugged to walls	m	99.71
	<u>Wrot Meranti</u>		
932	6 x 16mm Edge strip planted on	m	35.50
933	6 x 18mm Edge strip planted on	m	35.97
934	12 x 16mm Edge strip planted on	m	35.06
935	12 x 18mm Edge strip planted on	m	48.01
936	22 x 32mm Bearers, rails, etc	m	87.92
937	22 x 32mm Bearers, rails, etc plugged to walls	m	93.17
938	22 x 47mm Bearers, rails, etc	m	88.41
939	22 x 47mm Bearers, rails, etc plugged to walls	m	92.65
	<u>Tempered hardboard</u>		
940	3.2mm Hardboard in backs, bottoms, bases, etc planted on	m2	203.13
	Bill No. 14 JOINERY WORK		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
941	3.2mm White hardboard in backs, bottoms, bases, etc planted on	m2	237.72
942	6mm Hardboard in backs, bottoms, bases, etc planted on	m2	331.98
	<u>Commercial plywood</u>		
943	3mm Plywood in panels cut to shapes and different sizes in panelling, etc	m2	295.45
944	6mm Plywood in panels cut to shapes and different sizes in panelling, etc	m2	350.18
945	12mm Plywood in panels cut to shapes and different sizes in panelling, etc	m2	446.50
	<u>Decorative plywood with hardwood veneers</u>		
946	3mm Plywood in panels cut to shapes and different sizes in panelling, etc	m2	393.81
947	6mm Plywood in panels cut to shapes and different sizes in panelling, etc	m2	565.12
	<u>Marine plywood to SABS 929</u>		
948	4mm Plywood in panels cut to shapes and different sizes in panelling, etc	m2	456.79
949	6mm Plywood in panels cut to shapes and different sizes in panelling, etc	m2	656.01
950	12mm Plywood in panels cut to shapes and different sizes in panelling, etc	m2	1,020.07
	<u>Exterior grade plywood</u>		
951	4mm Plywood in panels cut to shapes and different sizes in panelling, etc	m2	439.96
952	6mm Plywood in panels cut to shapes and different sizes in panelling, etc	m2	650.18
953	12mm Plywood in panels cut to shapes and different sizes in panelling, etc	m2	1,005.97
	<u>Wrot laminated shelving</u>		
954	22mm Shelving 305mm wide fixed to bearers (bearers elsewhere measured)	m	301.37
955	22mm Shelving 455mm wide fixed to bearers (bearers elsewhere measured)	m	424.67
956	22mm Shelving 535mm wide fixed to bearers (bearers elsewhere measured)	m	488.18
957	22mm Shelving 600mm wide fixed to bearers (bearers elsewhere measured)	m	560.07
	Bill No. 14 JOINERY WORK		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Particle board to SABS 1300 with veneered edge strips along both edges</u>		
958	16mm Shelving 305mm wide fixed to bearers (bearers elsewhere measured)	m	148.80
959	16mm Shelving 455mm wide fixed to bearers (bearers elsewhere measured)	m	200.79
960	16mm Shelving 535mm wide fixed to bearers (bearers elsewhere measured)	m	227.02
	<u>Particle board to SABS 1300</u>		
961	16mm Ends, divisions, tops, sides, doors, etc	m2	197.34
962	18mm Ends, divisions, tops, sides, doors, etc	m2	250.52
	<u>Supawood or other approved interior grade medium density fibreboard</u>		
963	16mm Ends, divisions, tops, sides, doors, etc	m2	536.15
964	18mm Ends, divisions, tops, sides, doors, etc	m2	594.65
	<u>Particle board to SABS 1300 with hardwood veneer both sides</u>		
965	16mm Ends, divisions, tops, sides, doors, etc	m2	341.45
966	18mm Ends, divisions, tops, sides, doors, etc	m2	445.77
	<u>Particle board to SABS 1300 with melamine impregnated paper both sides (MFB)</u>		
967	16mm Ends, divisions, sides, etc	m2	260.52
968	18mm Ends, divisions, sides, etc	m2	335.53
	<u>Particle board to SABS 1300 with decorative melamine impregnated paper both sides</u>		
969	16mm Ends, divisions, tops, sides, doors, etc	m2	309.70
970	18mm Ends, divisions, tops, sides, doors, etc	m2	419.54
	<p>Bill No. 14 JOINERY WORK</p> <p style="text-align: right;">Initial here.....</p>		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>PINNING BOARDS</u>		
	<u>NOTE :</u>		
1	Pinning boards are to have a 32 x 47mm rebated and splayed wrot hardwood frame around countersunk screwed and pelleted to walls at not exceeding 300mm centres all round.		
2	The frame is to varnished with a minimum of three coats polyurethane varnish or is to be primed with wood primer and painted with one coat universal undercoat and two coats satin eggshell enamel paint.		
3	The frame is to be filled in with 12mm softboard sheeting set into the rebate of the frame and is to be glued to walls with a suitable contact adhesive. The softboard is to be primed and painted with two coats acrylic PVA paint.		
971	Pinning board size 600 x 900mm high overall	No	797.82
972	Pinning board size 900 x 900mm high overall	No	1,003.03
973	Pinning board size 1200 x 900mm high overall	No	1,274.39
974	Pinning board size 1500 x 900mm high overall	No	1,461.25
975	Pinning board size 1000 x 1200mm high overall	No	1,450.61
976	Pinning board size 2400 x 1200mm high overall	No	2,777.81
977	Pinning board size 4800 x 1200mm high overall	No	4,051.67
978	Extra over 12mm softboard for 9mm polypropylene fibre foam backed pinning board material glued to wall (in lieu of softboard)	m2	264.89
	<u>KITCHEN CUPBOARDS</u>		
	<u>Wall Units</u>		
979	Wall unit type W300 size 300mm long, 600mm high and 300mm deep with one door and shelf	No	1,788.64
980	Wall unit type W450 size 450mm long, 600mm high and 300mm deep with one door and shelf	No	2,170.70
981	Wall unit type W600 size 600mm long, 600mm high and 300mm deep with one door and shelf	No	2,734.29
982	Wall unit type W900 size 900mm long, 600mm high and 300mm deep with two doors and shelf	No	3,283.05
	Bill No. 14 JOINERY WORK		
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Floor Units (work tops elsewhere measured)</u>		
983	Floor unit type F300/1 size 300mm long, 870mm high and 570mm deep with one drawer, one door and shelf	No	2,918.72
984	Floor unit type F450/1 size 450mm long, 870mm high and 570mm deep with one drawer, one door and shelf	No	3,631.99
985	Floor unit type F600/1 size 600mm long, 870mm high and 570mm deep with one drawer, one door and shelf	No	5,136.29
986	Floor unit type F900/1 size 900mm long, 870mm high and 570mm deep with two drawers, two doors and shelf	No	5,654.79
987	Floor unit type F450/5 size 450mm long, 870mm high and 570mm deep with five drawers	No	5,854.42
988	Floor sink unit type F900 S size 870mm long, 900mm high and 570mm deep with fixed front fascia, two doors and shelf	No	6,034.02
989	Floor sink unit type F1200 S size 1200mm long, 870mm high and 570mm deep with fixed front fascia, two doors and shelf	No	7,027.41
990	Floor sink unit type F1500 S size 1500mm long, 870mm high and 570mm deep with fixed front fascia, three doors and shelves	No	8,633.77
991	Floor sink unit type F1800 S size 1800mm long, 870mm high and 570mm deep with fixed front fascia, four doors and shelves	No	11,097.06
	<u>Storage Units</u>		
992	Broom cupboard unit type H450 B size 450mm long, 2000mm high and 570mm deep with one door and shelf	No	5,170.13
993	Grocery cupboard unit type H450 G size 450mm long, 2000mm high and 570mm deep with one door and four shelves	No	5,939.80
	<u>Sundries</u>		
994	Vertical filler piece not exceeding 100mm wide to 600mm high wall unit	No	93.34
995	Vertical filler piece not exceeding 100mm wide to 870mm high floor unit	No	129.13
996	Vertical filler piece not exceeding 100mm wide to 2000mm high storage unit	No	242.19
	Bill No. 14 JOINERY WORK		Initial here.....

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>WORK TOPS GENERALLY</u>		
	<u>32mm Work tops with post formed front edges</u>		
997	Work top 600mm wide	m	1,024.92
998	Extra over 600mm wide work top for right angle intersection	No	610.78
999	Extra over 600mm wide work top for opening for single or double bowl sink	No	244.79
1000	Work top 800mm wide	m	1,481.87
1001	Extra over 800mm wide work top for right angle intersection	No	754.86
	END OF BILL		
	Bill No. 14 JOINERY WORK		
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>BILL No 13</u>		
	<u>CEILING AND PARTITIONS</u>		
	NOTE :		
	1 Prices for ceilings must allow for holes for light fittings and for strengthening brandering and / or galvanised suspension systems at openings for light fittings, airconditioning diffusers and the like as no extra costs will be paid in connection herewith.		
	<u>NAILED UP CEILING</u>		
	<u>Sawn Softwood</u>		
1002	38 x 38mm Brandering at 400mm centres in one direction at at joints and against walls	m2	66.87
1003	38 x 50mm Brandering at 400mm centres in one direction at at joints and against walls	m2	87.83
	<u>Wrot Meranti</u>		
1004	8 x 50mm Cover strips planted on	m	39.12
1005	19mm Quadrant bead planted on	m	39.91
1006	19mm Half round bead planted on	m	55.68
	<u>Softboard ceilings</u>		
1007	12mm Softboard ceiling board in full length sheets fixed to brandering (elsewhere measured) with and including chamfered joints between sheets	m2	264.88
1008	12mm Softboard ceiling board in full length sheets fixed to brandering (elsewhere measured) <u>with and including</u> 8 x 50mm wrot meranti cover strips over joints between sheets	m2	296.75
1009	Extra over softboard ceiling for trap door size 600 x 600mm formed of 32 x 47mm wrot softwood rebated framing around with cross bracing covered with 12mm softboard ceiling board and fitted into opening	No	997.61
	<u>Gypsum plasterboard ceilings</u>		
1010	9.5mm Gypsum plasterboard ceiling board in full length sheets fixed to brandering (elsewhere measured) with and including wire scrim and 'Rhinolite' skimmed over all joints between sheets	m2	305.58
1011	9.5mm Gypsum plasterboard ceiling board in full length sheets fixed to brandering (elsewhere measured) <u>with and including</u> 8 x 50mm wrot meranti cover strips over joints between sheets	m2	325.83
	Bill No. 15 CEILING AND PARTITIONS		
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1012	9.5mm Gypsum plasterboard ceiling board in full length sheets fixed <u>to and including</u> galvanised proprietary suspension system including main and cross bearers, hangers, channels, angles, etc with and including wire scrim and 'Rhinolite' skimmed over all joints between sheets	m2	370.70
1013	Extra over gypsum plasterboard ceiling for trap door size 600 x 600mm formed of 32 x 47mm wrot softwood rebated framing around with cross bracing covered with 9.5mm gypsum plasterboard ceiling board and fitted into opening	No	1,012.95
<u>Medium density fibre cement flat boards</u>			
1014	4mm Fibrecement ceiling board in full length sheets fixed to brandering (elsewhere measured) <u>with and including</u> 8 x 50mm wrot meranti cover strips over joints between sheets	m2	295.41
1015	6mm Fibrecement ceiling board in full length sheets fixed to brandering (elsewhere measured) <u>with and including</u> 8 x 50mm wrot meranti cover strips over joints between sheets	m2	350.94
<u>Cornices</u>			
1016	L-shaped softboard cornice formed of 12 x 75mm and 12 x 65mm softboard strips planted on	m	95.60
1017	70mm Coved gypsum cornice planted on	m	48.18
1018	75mm Coved fibrecement cornice planted on	m	51.16
1019	18 x 69mm Wrot meranti angle rounded cornice planted on	m	74.02
1020	18 x 100mm Supawood cornice plugged	m	72.51
1021	18 x 100mm Supawood cornice plugged with one edge shaped to profile of IBR sheeting (elsewhere measured)	m	77.66
1022	22 x 47mm Twice rebated and once splayed Supawood cornice plugged to walls	m	63.62
<u>METAL CEILINGS</u>			
<u>0.5mm IBR profile full hard galvanised steel troughed roofing with 0.8mm galvanised sheet steel accessories fixed in strict accordance with the manufacturer's instructions</u>			
1023	Ceilings in single length sheets fixed horizontally to underside of steel purlins (elsewhere measured)	m2	443.09
1024	Cornice of standard narrow and broad fluted closers pop-riveted to profiled metal ceiling	m	149.54
1025	100mm Wide horizontal closer plate pop-riveted to profiled metal sheeting	m	220.64
Bill No. 15 CEILINGS AND PARTITIONS			
Initial here.....			

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1026	Extra over ceiling for trap door size 600 x 600mm, the opening formed of 40 x 40 x 0.8mm galvanised sheet metal angle frame all round mitred and pop-riveted to profiled metal ceiling and 50 x 50 x 3mm mild steel angle frame all round mitred and welded together and to steel branding, the trap door formed of IBR profiled metal sheeting with 40 x 40 x 0.8mm galvanised sheet metal angle frame all round mitred and pop-riveted to profiled metal ceiling	No	1,315.13
	<u>SUSPENDED CEILINGS</u>		
	<u>Proprietary suspended ceilings</u>		
	Electrical light fittings, diffusers, panels, etc generally are lay in units of the same dimensions as the suspension grid described and allowance must be made accordingly for their support inclusive of any flexibility in setting out that may be required.		
	<u>12.5mm Gypsum vinyl covered fissured plasterboard ceiling board in panels size 600 x 600mm laid in and including proprietary galvanised suspension system including main and cross bearers, necessary hangers, channels, angles, grids, hold down clips, etc</u>		
1027	Ceilings suspended below steel purlins or concrete slabs	m2	536.82
1028	Horizontal bulkheads in narrow widths not exceeding 300mm wide	m2	635.22
1029	Vertical bulkheads	m2	629.81
1030	Vertical bulkheads in narrow widths not exceeding 300mm wide	m2	686.32
	<u>Extra over 12.5mm gypsum vinyl covered fissured suspended ceilings for the following suspended ceiling boards</u>		
1031	Extra over for 12.5mm Gypsum vinyl covered fissured plasterboard ceiling board size 600 x 1200mm	m2	243.30
1032	Extra over for 15mm 'Prima Plain' ceiling panels size 600 x 600mm	m2	334.82
1033	Extra over for 15mm 'Prima Plain' ceiling panels size 600 x 1200mm	m2	363.65
1034	Extra over for 15mm 'Prima Dune Plus' ceiling panels size 600 x 600mm	m2	370.58
1035	Extra over for 15mm 'Prima Dune Plus' ceiling panels size 600 x 1200mm	m2	402.92
1036	Extra over for 15mm 'OWAcoustic Constellation 3' ceiling panels size 600 x 600mm	m2	312.79
1037	Extra over for 15mm 'OWAcoustic Constellation 3' ceiling panels size 600 x 1200mm	m2	347.78
1038	Extra over for 15mm 'OWAcoustic Futura 60' ceiling panels size 600 x 600mm	m2	350.66
	Bill No. 15 CEILINGS AND PARTITIONS		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1039	Extra over for 15mm 'OWAcoustic Futura 60' ceiling panels size 600 x 1200mm	m2	402.90
	<u>Cornices to suspended ceilings</u>		
1040	LSM 25 shadowline cornice plugged to walls	m	66.25
	<u>CEILING INSULATION</u>		
	<u>Flexible non-combustible lightweight fibreglass reinforced insulation blanket</u>		
1041	50mm Thick ceiling insulation blanket closely fitted with ends butted firmly and laid loose on top of brandering between roof timbers	m2	102.32
	<u>DRYWALL PARTITIONING</u>		
	<u>NOTE:</u>		
	1. The partitioning shall comprise steel studding formed of 65mm top and bottom tracks with vertical studs at maximum 600mm centres, friction fitted or pop-riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc and covered as described with wallboard screwed to studding with drywall screws at maximum 220mm centres. Boards are to be 12.7mm gypsum plasterboard butt jointed and finished with "Rhino" tape and "Readymix D" jointing compound all in accordance with the manufacturer's instructions. Intersections and abutments are measured separately and descriptions shall be deemed to include any additional studs, corner beads, jointing compound, tape, etc.		
	2. Paint and other finishes are measured elsewhere.		
	3. Glazed sections within partitions shall comprise aluminium glazing sections and be divided into fixed panels with aluminium mullions at centres as indicated with panels glazed with 4mm clear float glass including neoprene glazing gaskets.		
	4. Door frames shall be standard natural anodised aluminium door frames with three 100mm nylon washered aluminium hinges and shall allow for any additional studding, trimming, etc.as may be necessary.		
	5. Doors, ironmongery and paint finishes to doors are seperately measured.		
	6. Prices must include for 75mm high natural anodised aluminium skirtings to both sides of partitions.		
	<u>Drywall steel stud partitioning with bottom track plugged and top track fixed to underside of ceiling and covered with gypsum plasterboard on both sides</u>		
1042	Partition 2.4m high solid full height	m	3,102.70
	Bill No. 15 CEILING AND PARTITIONS		
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1043	Extra over partition 2.4m high for vertical abutment with structure	No	415.14
1044	Extra over partition 2.4m high for corner	No	378.90
1045	Extra over partition 2.4m high for T-intersection	No	434.76
1046	Extra over partition 2.4m high for free standing end	No	474.49
1047	Partition 2.7m high solid full height	m	3,625.01
1048	Extra over partition 2.7m high for vertical abutment with structure	No	459.64
1049	Extra over partition 2.7m high for corner	No	452.10
1050	Extra over partition 2.7m high for T-intersection	No	479.45
1051	Extra over partition 2.7m high for free standing end	No	457.93
1052	Extra over partition for glazed panel 600mm high above 2.1m high glazed with 4mm clear float glass	m	680.33
1053	Extra over partition for frame for single door size 813 x 2032mm high	No	1,922.90
1054	Extra over partition for frame for double door size 1511 x 2032mm high	No	4,189.51
1055	Extra over partition for glazed panel size 1000 x 1000mm high	No	2,298.28
	<u>Drywall steel stud partitioning with bottom track plugged and top track fixed to underside of ceiling and covered with gypsum Fire Stop plasterboard with a one hour fire rating on both sides and the cavity filled with a fibre fire retardant blanket</u>		
1056	Partition 2.7m high solid full height	m	4,242.65
1057	Extra over partition 2.7m high for vertical abutment with structure	No	510.48
1058	Extra over partition 2.7m high for corner	No	467.31
1059	Extra over partition 2.7m high for T-intersection	No	492.52
1060	Extra over partition 2.7m high for free standing end	No	553.06
1061	Extra over partition for glazed panel 600mm high above 2.1m high glazed with 4mm clear float glass	m	849.84
1062	Extra over partition for frame for single door size 813 x 2032mm high	No	1,962.03
	Bill No. 15 CEILINGS AND PARTITIONS		
			Initial here.....

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1063	Extra over partition for frame for double door size 1511 x 2032mm high	No	3,940.96
1064	Extra over partition for glazed panel size 1000 x 1000mm high	No	1,841.24
<u>REMOUNTABLE PARTITIONING</u>			
<u>NOTE :</u>			
1	Demountable partitions are have an overall thickness of 76mm comprising 74mm wide galvanised steel backed track and unbacked track for the floor, wall and ceiling tracks, plugged, screwed or fixed with adhesive tape with vertical studs at maximum 600mm centres. The partition is to be covered with one layer of 12,5mm thick square-edged gypsum plasterboard in 1200mm modules covered with an approved vinyl fabric on each side retained in position with a batten clipped into the studding. All all external angles to have corner beads attached and all joints to be covered with RhinoTape and two layers of RhinoGlide applied and lightly sanded down.		
2.	Glazed sections within partitions shall comprise aluminium glazing sections and be divided into fixed panels with aluminium mullions at centres as indicated with panels glazed with 6.76mm NS clear laminated safety glass including neoprene glazing gaskets.		
3.	Door frames shall be standard natural anodised aluminium door frames with three 100mm nylon washered aluminium hinges and shall allow for any additional studding, trimming, etc.as may be necessary.		
4.	Doors, ironmongery and paint finishes to doors are seperately measured.		
5.	Prices must include for 75mm high natural anodised aluminium skirtings to both sides of partitions.		
1065	Partition 2.7m high solid full height	m	5,061.39
1066	Extra over partition 2.7m high for vertical abutment with structure	No	591.94
1067	Extra over partition 2.7m high for corner	No	527.29
1068	Extra over partition 2.7m high for T-intersection	No	578.89
1069	Extra over partition 2.7m high for free standing end	No	675.66
1070	Extra over partition for glazed panel 600mm high above 2.1m high glazed with 4mm clear float glass	m	840.32
1071	Extra over partition for frame for single door size 813 x 2032mm high	No	2,028.30
1072	Extra over partition for frame for double door size 1511 x 2032mm high	No	3,758.38
Bill No. 15			
CEILINGS AND PARTITIONS			
Initial here.....			

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1073	Extra over partition for glazed panel size 1000 x 1000mm high	No	1,610.34
	<u>TOILET PARTITIONING</u>		
	NOTE :		
1	Toilet partition systems are to comprise 16mm thick particle board panels laminated on both sides with a decorative laminated finish edged all round with 22 x 22mm lipped channel and are to be fixed into position by means of full height vertical aluminium receiving channels plugged to walls.		
2	Partitions are to be supported by a continuous 25 x 25mm aluminium transome section over doors and supplied with standard ironmongery comprising indicator bolts, hat and coat hooks, doors stops, toilet roll holders and rubber buffers. All exposed aluminium sections are to be natural anodised.		
3	Partition doors are to be size 750 x 1800mm high framed door including standard ironmongery.		
1074	Toilet partition size 1500 x 1800mm high	No	4,120.78
1075	Toilet partition size 1700 x 1800mm high	No	4,547.31
1076	Full stile size 210 x 1800mm high	No	1,031.17
1077	Wall stile size 105 x 1800mm high	No	730.80
1078	End stile size 145 x 1800mm high	No	897.92
1079	Door size 750 x 1800mm high complete with all ironmongery as specified	No	3,691.18
	END OF BILL		
	Bill No. 15 CEILINGS AND PARTITIONS		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>BILL No 14</u>		
	<u>FLOOR COVERINGS, WALL LININGS, ETC</u>		
	<u>FLOOR COVERINGS</u>		
	<u>300 x 300 x 2.5mm Semi flexible vinyl tiles to patterns in differing colours fixed with an adhesive recommended by and laid in strict accordance with the manufacturer's instructions</u>		
1080	Floors	m2	716.33
1081	Treads and risers	m2	756.95
	<u>300 x 300 x 2mm Fully flexible vinyl tiles to patterns in differing colours fixed with an adhesive recommended by and laid in strict accordance with the manufacturer's instructions</u>		
1082	Floors	m2	652.74
1083	Treads and risers	m2	681.51
	<u>2mm Fully flexible vinyl sheeting with welded joints fixed with an adhesive recommended by and laid in strict accordance with the manufacturer's instructions</u>		
1084	Floors	m2	740.06
1085	Treads and risers	m2	796.68
1086	Extra for coved turn-up next walls not exceeding 300mm girth	m	291.45
	<u>3.5mm Heavy duty embossed fully flexible vinyl sheeting with welded joints fixed with an adhesive recommended by and laid in strict accordance with the manufacturer's instructions</u>		
1087	Floors	m2	965.15
1088	Treads and risers	m2	1,025.17
1089	Extra for coved turn-up next walls not exceeding 300mm girth	m	388.88
	<u>608 x 608 x 2mm Electrostatic conductive vinyl tiles to patterns in differing colours fixed with an adhesive recommended by and laid in strict accordance with the manufacturer's instructions</u>		
1090	Floors	m2	1,497.78
	Bill No. 16 FLOOR COVERINGS, WALL LININGS, ETC		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1091	Treads and risers	m2	1,605.06
	<u>2.5mm Thick "Marmoleum" fully flexible linoleum floor sheeting with welded joints fixed with an adhesive recommended by and laid in strict accordance with the manufacturer's instructions</u>		
1092	Floors	m2	1,965.09
	<u>500 x 500 x 8mm 'Florpoint' heavy duty carpet tiles fixed with an adhesive recommended by and laid in strict accordance with the manufacturer's instructions</u>		
1093	Floors	m2	644.64
1094	Treads and risers	m2	605.55
	<u>Approved needle punched plain resin backed carpet heavy residential grade broadloom carpeting fixed with an adhesive recommended by and laid in strict accordance with the manufacturer's instructions</u>		
1095	Floors	m2	468.25
1096	Treads and risers	m2	511.21
	<u>Woven pile broadloom carpeting including underfelt fixed by an approved installer in strict accordance with the manufacturer's instructions</u>		
1097	Heavy residential / light commercial grade carpeting with underlay on floors (Belgotex Matador, Belgotex Bolero, Nouwens Berber Look)	m2	982.28
1098	Medium commercial grade carpeting with underlay on floors (Nouwens Kirman)	m2	1,699.14
1099	Heavy commercial grade carpeting with underlay on floors (Nouwens Madison Square)	m2	1,455.75
	<u>WALL LININGS</u>		
	<u>1.25mm Fully flexible vinyl sheeting with welded joints fixed with an adhesive recommended by and laid in strict accordance with the manufacturer's instructions</u>		
1100	Walls	m2	781.92
	<u>SKIRTINGS, NOSINGS, HANDRAILS, ETC</u>		
1101	Vinyl coved fillet size 14 x 35mm	m	126.27
1102	70mm Coved vinyl base skirting	m	115.71
1103	150mm Coved vinyl base skirting	m	438.93
	Bill No. 16 FLOOR COVERINGS, WALL LININGS, ETC		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1104	Vinyl capping strip size 6 x 35mm high	m	167.92
1105	Vinyl handrail covering size 50 x 6mm	m	349.40
1106	Combined vinyl tread and stair nosing with ribbed tread pattern	m	915.27
<u>WALL PROTECTION BUMPER RAIL SYSTEM</u>			
<u>Marley Intrad PVC wall protection system</u>			
1107	200mm Bumper rail fixed to walls with and including standard brackets at not exceeding 400mm centres	m	845.68
1108	Extra over for rebated timber backing rail to suit PVC bumper rail plugged and screwed to walls	m	422.50
1109	Extra over for stop end	No	373.91
1110	Extra over for external corner	No	509.52
1111	Extra over for door protector	No	552.85
1112	Extra over for jointing block (only required if there is no timber backing piece)	No	139.24
<u>POLISH, SEALERS, ETC</u>			
1113	Two coats water based floor dressing on vinyl flooring	m2	68.04
1114	Two coats wax polish on vinyl flooring	m2	71.49
END OF BILL			
Bill No. 16 FLOOR COVERINGS, WALL LININGS, ETC		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>BILL No 15</u>		
	<u>IRONMONGERY</u>		
	<u>NOTE :</u>		
1	Prices must allow for fixing to timber, steel and plastered or tiled walls as may be necessary.		
2	All locks are to be supplied with two keys. Keys are to be clearly marked and labelled with the correct door numbers. It is the responsibility of the Contractor to hand over all the keys to the Regional Representative of the Department of Works. All keys handed over must be signed for by the Regional Representative. No keys are to be handed over to the occupants of the buildings.		
	<u>HINGES</u>		
1115	19mm Brass or chromium plated piano hinges cut to lengths and screwed to timber	m	80.25
1116	76mm Steel weld-on hinge	No	75.84
1117	100mm Steel weld-on hinge	No	130.69
1118	100 x 75mm Brass butt hinge with brass pin and nylon washers	No	360.63
1119	100 x 150mm Brass heavy duty projecting hinge	No	265.66
1120	100 x 200mm Brass heavy duty projecting hinge	No	369.14
1121	100 x 75mm Brass self-closing butt hinge	No	256.28
1122	100 x 75mm Aluminium butt hinge with aluminium pin and nylon washers	No	97.70
1123	100 x 75mm Stainless steel butt hinge with stainless steel pin and nylon washers	No	221.35
1124	100mm Brass counterflap hinge	No	264.30
1125	36 x 60mm Brass backflap hinge	No	189.22
1126	76 x 76mm Brass parliament hinge	No	247.26
1127	100 x 100mm Brass parliament hinge	No	526.06
1128	38 x 29mm Polished brass lift-off hinge	No	223.94
	Bill No. 17 IRONMONGERY		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1129	100mm Single action zinc plated steel coil spring hinges	No	536.21
1130	100mm Double action zinc plated steel coil spring hinges	No	784.16
1131	110° Chromium plated self-closing cupboard door hinge	No	154.38
<u>BARREL BOLTS AND FLUSH BOLTS</u>			
1132	76mm Brass barrel bolt and keep	No	105.35
1133	100mm Brass barrel bolt and keep	No	108.60
1134	150mm Brass barrel bolt and keep	No	146.72
1135	50mm Chrome plated brass barrel bolt and keep	No	468.98
1136	75mm Chrome plated brass barrel bolt and keep	No	130.34
1137	50mm Brass necked barrel bolt and keep	No	83.63
1138	75mm Brass necked barrel bolt and keep	No	201.03
1139	150mm Anodised silver flush bolt and keep	No	272.90
1140	200m Anodised silver flush bolt and keep	No	292.66
<u>CATCHES, CABIN HOOKS, ETC</u>			
1141	Single roller catch	No	37.10
1142	Double roller catch	No	41.24
1143	Heavy duty magnetic door catch	No	147.32
1144	76mm Brass cabin hook and eye	No	138.39
1145	100mm Brass cabin hook and eye	No	146.86
1146	76mm Chrome plated cabin hook and eye	No	164.09
1147	100mm Chrome plated cabin hook and eye	No	176.09
1148	100 x 38mm Satin chrome finished hasp and staple	No	160.13
1149	100 x 38mm Brass hasp and staple	No	166.19
Bill No. 17 IRONMONGERY		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1150	200mm Heavy duty galvanised padbolt and keep	No	144.31
1151	Black japanned door holder and catch fixed to wall and door	No	637.55
<u>HANDLES, ETC</u>			
1152	32mm Satin chrome plated concave drawer knob	No	235.82
1153	75mm Satin chrome plated bow handle	No	114.74
1154	100mm Satin chrome plated bow handle	No	105.68
1155	50 x 100mm Stainless steel flush pull handle	No	180.71
<u>DOOR LOCKS</u>			
<u>Padlocks</u>			
1156	55mm Solid hardened 6-pin steel padlock	No	643.81
1157	50mm Brass long shackle 6-pin padlock	No	627.72
1158	50mm Brass standard shackle 6-pin padlock	No	492.88
1159	50mm Brass standard shackle 6-pin key retaining padlock	No	543.99
1160	75mm Solid hardened 6-pin steel slide bolt padlock	No	1,404.39
<u>Mortice locks</u>			
1161	Two lever upright mortice lock with stainless steel forend	No	259.39
1162	Three lever upright mortice lock with stainless steel forend	No	303.37
1163	Four lever upright mortice lock with stainless steel forend	No	367.87
1164	Four lever upright mortice deadlock with stainless steel forend	No	378.56
1165	Four lever upright mortice claw bolt sliding door lock with stainless steel forend	No	737.14
1166	Bathroom / WC upright mortice lock with stainless steel forend	No	484.58
1167	Rebate conversion for upright mortice lock	No	268.10
Bill No. 17 IRONMONGERY		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Cylinder locks</u>		
1168	Cylinder rim night latch (anti-credit card type) with cylinder	No	808.35
1169	Oval single cylinder lock with oval profile lock case and brass forend	No	1,516.35
1170	Oval double cylinder lock with oval profile lock case and brass forend	No	1,599.23
1171	Oval knob cylinder lock with oval profile lock case and brass forend	No	1,552.03
1172	Euro profile single cylinder lock with Euro profile lock case and brass forend	No	1,000.39
1173	Euro profile double cylinder lock with Euro profile lock case and brass forend	No	983.11
1174	Euro profile knob cylinder lock with Euro profile lock case and brass forend	No	1,146.56
1175	Euro profile double cylinder lock with Euro profile <u>narrow stile</u> lock case and brass forend	No	916.94
1176	Rebate conversion for cylinder lock	No	326.47
	<u>Cupboard and drawer locks</u>		
1177	51mm Brass plated two lever straight cupboard lock	No	83.54
1178	76mm Brass plated two lever straight cupboard lock	No	197.12
1179	32mm Brass plated cylinder cupboard lock	No	706.78
1180	38mm Brass plated cylinder drawer lock	No	692.56
	<u>DOOR FURNITURE</u>		
1181	'Union Gower' lever furniture (pair) with standard keyhole	Sets	669.44
1182	'Union Gower' lever furniture (pair) with cylinder keyhole	Sets	737.13
1183	'Union Gower' lever furniture (pair) with bathroom / wc indicator	Sets	879.29
1184	'Union Protea' lever furniture (pair) with standard keyhole	Sets	1,766.10
1185	'Union Protea' lever furniture (pair) with cylinder keyhole	Sets	1,772.98
1186	'Union Protea' lever furniture (pair) with bathroom / wc indicator	Sets	1,634.80
1187	'Union Waterbok' lever furniture (pair) with standard keyhole	Sets	1,267.28
	Bill No. 17 IRONMONGERY		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1188	'Union Waterbok' lever furniture (pair) with cylinder keyhole	Sets	1,264.55
1189	'Union Waterbok' lever furniture (pair) with bathroom / wc indicator	Sets	1,282.44
<u>DOOR CLOSERS AND FLOOR SPRINGS</u>			
1190	'Dorma' TS 73 overhead door closer with satin anodised aluminium finish including bracket fixed to timber door and pressed steel frame including all necessary tapping pieces	No	5,178.46
1191	'Dorma' BTS 75 silver anodised single action floor spring with hold-open device complete	No	10,073.38
1192	'Dorma' BTS 75 silver anodised double action floor spring with hold-open device complete	No	10,017.87
<u>KICKING PLATES</u>			
1193	2mm Natural anodised aluminium kicking or push plate size 810 x 150mm eight times screwed to doors with countersunk round headed screws	No	635.25
1194	2mm Natural anodised aluminium kicking or push plate size 810 x 300mm eight times screwed to doors with countersunk round headed screws	No	794.66
<u>LETTERS, NAMEPLATES, ETC</u>			
<u>Door number plates</u>			
1195	1.2mm Natural anodised aluminium room number plate size 50 x 25mm with 15mm high engraved and painted numerals or letters twice holed and screwed to steel or timber	No	135.43
<u>Pictogram signs four times countersunk screwed to timber</u>			
1196	120 x 120mm Natural anodised aluminium plate with male or female symbol	No	240.21
1197	120 x 120mm Natural anodised aluminium plate with male and female symbol	No	240.21
1198	120 x 120mm Natural anodised aluminium plate with disabled symbol	No	240.21
1199	120 x 120mm Natural anodised aluminium plate with non-smoking symbol	No	240.21
1200	120 x 120mm Natural anodised aluminium plate with high voltage symbol	No	240.21
1201	120 x 120mm Natural anodised aluminium plate with fire hose reel or fire extinguisher symbol	No	240.21
<u>DOOR AND WINDOW SUNDRIES</u>			
1202	25mm Diameter chromium plated split ring key ring with and including 35mm diameter x 3mm thick perspex tag with 6mm high engraved and painted numerals or letters	No	117.36
Bill No. 17 IRONMONGERY		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1203	32mm Rubber door stop fixed to wall	No	21.49
1204	Silver anodised aluminium door stop with rubber buffer fixed to floor	No	182.23
1205	Silver anodised aluminium hat and coat hook with rubber buffer	No	128.64
1206	Heavy duty brass fanlight catch and keep	No	182.01
1207	Heavy duty brass fanlight roller arm stay 200mm long	No	198.50
	<u>MATS</u>		
	<u>'Matador Squeegee' or other equal and approved</u>		
1208	600 x 1200 x 25mm Door mat laid loose in mat surround (elsewhere measured) including 6mm stainless steel chain 300mm long, anchor bolt and washer, etc complete	No	7,263.33
	<u>BATHROOM FITTINGS</u>		
1209	Chromium plated towel ring	No	157.82
1210	Chromium plated toilet roll holder	No	199.21
1211	Silver anodised aluminium hat and coat hook	No	129.44
1212	19mm Chromium plated towel rail 600mm long including end flange brackets	No	189.32
1213	19mm Chromium plated towel rail 900mm long including end flange brackets	No	235.73
1214	20mm Chromium plated shower curtain rail 900mm long including end flange brackets	No	197.64
1215	Shower curtain of 100% polyester mildew resistant and water proof fabric size 1450 x 2000mm long overall including 30mm diameter plastic rings complete	No	305.86
1216	Medicine cupboard type C6 size 410 x 600mm overall including mirror	No	1,783.51
1217	Epoxy powder coated multi-fold paper towel dispenser	No	2,257.61
1218	Epoxy powder coated paper towel dispenser suitable for 240mm wide paper towels	No	2,792.32
1219	Epoxy powder coated vandal proof two roll toilet roll holder	No	1,018.98
1220	32mm Polished stainless steel rear cistern grab rail	No	1,876.39
1221	32mm Polished stainless steel rear flush valve grab rail	No	1,907.69
	Bill No. 17 IRONMONGERY		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1222	32mm Polished stainless steel dog leg side grab rail plugged to walls	No	1,955.64
	<u>CURTAIN TRACKS</u>		
1223	White powder coated single aluminium oval regular duty curtain track with all accessories complete fixed to timber pelmets (elsewhere measured) or walls, including fourteen nylon rollers per metre	m	148.23
1224	White powder coated double aluminium oval regular duty curtain track with all accessories complete fixed to timber pelmets (elsewhere measured) or walls, including fourteen nylon rollers per metre	m	187.59
	<u>BLINDS AND LOUVRE DRAPES</u>		
	<u>Vertical louvred sun drapes comprising natural anodised aluminium top rail, 120mm wide type F13 colour group 5 louvre vanes, draw cord, operating chain and pivot mechanism, etc fixed to soffits in reveals or face fixed to walls</u>		
1225	Louvred drape unit to suit window size 530 x 950mm high	No	951.87
1226	Louvred drape unit to suit window size 530 x 1245mm high	No	1,048.22
1227	Louvred drape unit to suit window size 530 x 1540mm high	No	1,153.83
1228	Louvred drape unit to suit window size 1020 x 950mm high	No	1,232.39
1229	Louvred drape unit to suit window size 1020 x 1245mm high	No	1,369.10
1230	Louvred drape unit to suit window size 1020 x 1540mm high	No	1,471.65
1231	Louvred drape unit to suit window size 1510 x 950mm high	No	1,742.68
1232	Louvred drape unit to suit window size 1510 x 1245mm high	No	1,980.17
1233	Louvred drape unit to suit window size 1510 x 1540mm high	No	2,229.36
1234	Louvred drape unit to suit window size 2000 x 950mm high	No	2,174.37
1235	Louvred drape unit to suit window size 2000 x 1245mm high	No	2,515.21
1236	Louvred drape unit to suit window size 2000 x 1540mm high	No	2,753.71
	<u>Approved 25mm mini venetian blinds in approved colours with soffit or face fixing complete with all controls</u>		
1237	Venetian blinds to suit window size 530 x 950mm high	No	702.99
	Bill No. 17 IRONMONGERY		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1238	Venetian blinds to suit window size 530 x 1245mm high	No	838.73
1239	Venetian blinds to suit window size 530 x 1540mm high	No	901.43
1240	Venetian blinds to suit window size 1020 x 950mm high	No	1,075.71
1241	Venetian blinds to suit window size 1020 x 1245mm high	No	1,226.15
1242	Venetian blinds to suit window size 1020 x 1540mm high	No	2,432.76
1243	Venetian blinds to suit window size 1510 x 950mm high	No	1,467.64
1244	Venetian blinds to suit window size 1510 x 1245mm high	No	1,779.02
1245	Venetian blinds to suit window size 1510 x 1540mm high	No	1,726.47
1246	Venetian blinds to suit window size 2000 x 950mm high	No	1,807.29
1247	Venetian blinds to suit window size 2000 x 1245mm high	No	2,049.05
1248	Venetian blinds to suit window size 2000 x 1540mm high	No	2,303.24
	<u>SHELVING</u>		
	<u>Standard epoxy powder coated finish shelving system</u>		
1249	Double slot wall band 914mm long plugged	No	285.77
1250	Double slot wall band 1820mm long plugged	No	248.21
1251	Double slot wall band 2100mm long plugged	No	293.37
1252	Heavy duty shelf bracket for 300mm wide timber shelf	No	53.21
1253	Heavy duty shelf bracket for 380mm wide timber shelf	No	70.10
1254	Heavy duty shelf bracket for 450mm wide timber shelf	No	84.44
1255	Heavy duty shelf bracket for 530mm wide timber shelf	No	97.49
1256	Heavy duty shelf bracket for 600mm wide timber shelf	No	127.78
1257	Heavy duty shelf bracket for 300mm wide steel shelf	No	101.78
1258	Heavy duty shelf bracket for 380mm wide steel shelf	No	128.73
	Bill No. 17 IRONMONGERY		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1259	Heavy duty shelf bracket for 450mm wide steel shelf	No	150.49
1260	Heavy duty shelf bracket for 530mm wide steel shelf	No	181.51
1261	Heavy duty shelf bracket for 600mm wide steel shelf	No	214.96
1262	Steel shelf size 914 x 300mm	No	519.44
1263	Steel shelf size 914 x 380mm	No	644.32
1264	Steel shelf size 914 x 450mm	No	739.28
1265	Steel shelf size 914 x 530mm	No	911.85
1266	Steel shelf size 914 x 600mm	No	1,107.78
1267	Steel shelf size 914 x 300mm	No	570.93
<u>INDUSTRIAL SHELVING UNITS</u>			
<u>Fully adjustable powder coated industrial shelving units</u>			
1268	Shelf unit 914mm wide, 300mm deep and 1829mm high with top, base and four shelves	No	4,232.05
1269	Shelf unit 914mm wide, 300mm deep and 2134mm high with top, base and five shelves	No	4,882.33
1270	Shelf unit 914mm wide, 380mm deep and 1829mm high with top, base and four shelves	No	4,776.94
1271	Shelf unit 914mm wide, 380mm deep and 2134mm high with top, base and five shelves	No	5,741.74
<u>STEEL CUPBOARDS</u>			
<u>Standard powder coated storage cupboards plugged to walls</u>			
1272	Hostel locker size 410 x 530 x 1800mm high	No	5,941.88
1273	Storage cabinet size 900 x 450 x 1800mm high with four shelves (teacher's cupboard)	No	8,630.28
<u>KITCHEN CUPBOARDS</u>			
<u>Standard steel epoxy powder coated kitchen cupboard units</u>			
1274	Wall unit type TC450 size 450 x 300 x 580mm high	No	5,115.34
1275	Wall unit type TC533 size 533 x 300 x 580mm high	No	5,928.17
Bill No. 17 IRONMONGERY		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1276	Wall unit type TC900 size 900 x 300 x 580mm high	No	9,941.91
1277	Wall unit type TC1200 size 1200 x 300 x 580mm high	No	8,201.71
1278	Floor cabinet type FC450 size 450 x 533 x 865mm high	No	10,284.78
1279	Floor cabinet type FC450D size 450 x 533 x 865mm high	No	14,327.44
1280	Floor cabinet type FC533 size 533 x 533 x 865mm high	No	11,030.47
1281	Floor cabinet type FC900 size 900 x 533 x 865mm high	No	14,775.45
1282	Floor cabinet type FC1200 size 1200 x 533 x 865mm high	No	18,028.09
1283	Floor cabinet type FC1600 size 1600 x 533 x 865mm high	No	14,612.09
1284	Sink cabinet type SC900 size 900 x 533 x 865mm high	No	16,932.62
1285	Sink cabinet type SC1200 size 1200 x 533 x 865mm high	No	24,921.47
1286	Sink cabinet type SC1350 size 1350 x 533 x 865mm high	No	31,413.68
1287	Broom cabinet type BC450 size 450 x 533 x 1905mm high	No	16,404.49
1288	Grocery cabinet type GC450 size 450 x 533 x 1905mm high	No	19,048.16
<u>PINNING BOARDS, WRITING BOARDS, ETC</u>			
<u>Wall mounted chalkboard with aluminium chalk rail plugged to walls</u>			
1289	Chalk board size 1200 x 1140mm high	No	4,018.92
1290	Chalk board size 1800 x 1140mm high	No	5,466.93
1291	Chalk board size 2700 x 1140mm high	No	7,129.88
<u>White magnetic aluminium framed writing board complete with accessories holder, magnets, board cleaner and box of felt strips plugged to walls</u>			
1292	White magnetic writing board size 1200 x 900mm high	No	2,551.89
1293	White magnetic writing board size 2000 x 1000mm high	No	5,335.94
Bill No. 17 IRONMONGERY		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Aluminium framed pinning board plugged to walls</u>		
1294	Pinning board size 1200 x 900mm high	No	2,478.37
1295	Pinning board size 1500 x 1000mm high	No	3,468.95
	<u>LABOUR RATES</u>		
	NOTE :		
1	THE FOLLOWING LABOUR RATES ARE <u>ONLY TO BE USED</u> WHERE THERE IS WORK RELATING TO NON-SCHEDULED ITEMS. THESE LABOUR RATES ARE NOT TO BE USED FOR THE PRECEDING SCHEDULED ITEMS.		
2	THE LABOUR RATES SPECIFICALLY EXCLUDES THE COST OF THE MATERIALS AND TRANSPORT TO SITE. PROFIT ON LABOUR MUST HOWEVER BE INCLUDED.		
3	THE FOLLOWING LABOUR RATES ARE FOR THE FIXING VARIOUS NON-SCHEDULED ITEMS OF IRONMONGERY ONLY AND MUST INCLUDE FOR ALL NECESSARY LABOUR REQUIRED IN ORDERING, TAKING DELIVERY OF, STORING, PROTECTING AND FIXING IN POSITION.		
	<u>Labour cost in fixing and fitting of the following non-scheduled items</u>		
1296	Fixing of mortice lock or cylinder lock excluding door handles	No	123.44
1297	Fixing of door handles to both sides of door	No	106.70
1298	Fixing of door hinges to all types of doors	No	74.65
1299	Fixing of cupboard door locks, barrel bolts, catches, pull handles and the like	No	99.94
1300	Fixing of overhead door closer	No	205.83
1301	Fixing of floor spring	No	430.69
1302	Fixing of sliding door gear for single door to door and to brickwork	No	369.79
1303	Fixing of louvre drapes or venetian blinds to walls for all heights of louvre drapes and all heights of venetian blinds	m	155.13
1304	Fixing of all sizes of pinning boards and writing boards	No	256.11
	END OF BILL		
	Bill No. 17 IRONMONGERY		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<p><u>BILL No 16</u></p> <p><u>STRUCTURAL STEELWORK</u></p> <p><u>NOTES :</u></p> <p>1 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.</p> <p>2 Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortice in brickwork or concrete.</p> <p>3 All Structural Steelwork must comply with the requirements of SABS 1200-Section H. Grade 300W to be used for all sections. All bolts to be Grade 4D.</p> <p>4 Workshop drawings have to be submitted to the Department of Works for approval before commencement of manufacture.</p> <p>5 Corrosion protection of steelwork must comply with the requirements of SABS 1200-Section HC. The following method must be adopted and prices must include herefore:</p> <p style="margin-left: 20px;">a) All surfaces are to be cleaned in accordance with clauses 5.4, 5.5 and 5.6 of the above specifications.</p> <p style="margin-left: 20px;">b) Two coats zinc chromate primer is to be applied in the workshop before transport to the site.</p> <p><u>COLUMNS AND BEAMS</u></p> <p><u>Welded columns and beams in single lengths with flat section base, top, bearer and connection plates bolted to concrete or to steel</u></p>		
1305	I-section columns	kg	63.43
1306	IPE section rafters	kg	63.43
	<p><u>STEEL TRUSSES ETC</u></p> <p>Note: <i>The descriptions and sizes of the trusses given exclude any eaves overhangs although the weight of the overhangs is included in the weight of the trusses concerned. Some trusses described may be slightly truncated or shortened at the eaves. The span given is the clear span between the internal faces of walls</i></p> <p>Bill No. 18 STRUCTURAL STEELWORK</p> <p style="text-align: right;">Initial here.....</p>		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Welded roof trusses of angle section hollow section rafters, rails, struts, braces, cleats, etc and flat section bearer, gusset and connection plates bolted to concrete</u>		
1307	Trusses not exceeding 2m span	kg	63.61
1308	Trusses exceeding 2m and not exceeding 4m span	kg	63.61
1309	Trusses exceeding 4m and not exceeding 6m span	kg	63.61
1310	Trusses exceeding 6m and not exceeding 8m span	kg	63.61
1311	Trusses exceeding 8m and not exceeding 10m span	kg	63.61
	<u>Welded roof trusses of rectangular or square hollow section rafters, rails, struts, braces, cleats, etc and flat section bearer, gusset and connection plates bolted to concrete</u>		
1312	Trusses not exceeding 2m span	kg	64.12
1313	Trusses exceeding 2m and not exceeding 4m span	kg	64.12
1314	Trusses exceeding 4m and not exceeding 6m span	kg	64.12
1315	Trusses exceeding 6m and not exceeding 8m span	kg	64.12
1316	Trusses exceeding 8m and not exceeding 10m span	kg	64.12
	<u>Base plates, angles and bolts to trusses</u>		
1317	Base or anchor plates	kg	64.62
1318	12mm U-shaped anchor bolt 750mm girth cast into top of concrete	No	137.76
1319	12mm "Hilti" Hit HY or other equal and approved chemical anchor bolt 150mm long	No	254.48
	<u>PURLINS, GIRTS, BRACING, ETC</u>		
	<u>Purlins and braces bolted to steel</u>		
1320	Lipped channel section purlins	kg	59.12
1321	Lipped channel section ceiling rails	kg	59.12
1322	Extra over for HOT DIP GALVANISED lipped channel sections (at coastal areas only if specifically required)	kg	27.60
	Bill No. 18 STRUCTURAL STEELWORK		
		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Windbracing</u>		
1323	16mm Diameter mild steel rods in wind bracing with threaded ends both sides with tensioning nuts	kg	71.80
	<u>SUNDRY STRUCTURAL STEELWORK</u>		
	Note :		
1	Prices for the following sundry items are to include for small plates, gussets, bolts, etc.		
2	The following items are only to be used where the above items for trusses and purlins are not applicable. The following items are NOT to be used in lieu of the above items.		
	<u>Sundry steelwork</u>		
1324	10mm Diameter mild steel solid round bars	kg	56.36
1325	12mm Diameter mild steel solid round bars	kg	56.36
1326	Flat bars generally	kg	61.26
1327	Angle section purlins, braces, struts, etc	kg	61.26
1328	Rectangular or square hollow section posts or columns	kg	66.44
1329	Rectangular or square hollow section purlins and rafters	kg	66.44
1330	Tubular hollow section posts or columns	kg	66.65
1331	Tubular hollow section purlins and rafters	kg	66.65
	<u>Commercial quality mild steel plates</u>		
1332	2mm Plates cut to varying shapes and sizes	m2	822.95
1333	3mm Plates cut to varying shapes and sizes	m2	1,089.26
1334	4mm Plates cut to varying shapes and sizes	m2	1,470.43
1335	5mm Plates cut to varying shapes and sizes	m2	1,777.54
1336	6mm Plates cut to varying shapes and sizes	m2	2,062.92
1337	8mm Plates cut to varying shapes and sizes	m2	2,832.61
	Bill No. 18 STRUCTURAL STEELWORK		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1338	10mm Plates cut to varying shapes and sizes	m2	3,523.03
1339	12mm Plates cut to varying shapes and sizes	m2	4,290.86
	<u>Vastrap chequer plate flooring</u>		
1340	4.5 - 6.1mm Plates cut to varying shapes and sizes	m2	1,994.27
1341	6 - 7.6mm Plates cut to varying shapes and sizes	m2	2,509.05
1342	8 - 9.6mm Plates cut to varying shapes and sizes	m2	3,152.32
	<u>Floor and duct gratings</u>		
1343	'Vitagrid' floor grating with 30 x 3mm bearer bars in varying lengths and widths laid loose in frame (elsewhere measured)	m2	2,382.80
1344	'Vitagrid' floor grating with 40 x 4.5mm bearer bars in varying lengths laid loose in frame (elsewhere measured)	m2	3,287.95
1345	'Vitagrid' floor grating with 50 x 5mm bearer bars in varying lengths laid loose in frame (elsewhere measured)	m2	4,065.36
	<u>Expanded meshes</u>		
1346	Florex No 1 expanded metal lathing cut to varying sizes	m2	1,115.52
1347	Mentex No 300 expanded metal lathing cut to varying sizes	m2	832.29
	<u>Bolts, etc</u>		
1348	Mild steel bolts with nuts and washers	kg	95.39
1349	M8 x 100mm expanding bolts with nuts and washers	No	47.26
1350	M10 x 100mm expanding bolts with nuts and washers	No	67.86
	END OF BILL		
	Bill No. 18 STRUCTURAL STEELWORK		Initial here.....

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>BILL No 17</u>		
	<u>METALWORK</u>		
	<u>NOTES :</u>		
	1 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.		
	2 Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortice in brickwork or concrete.		
	<u>BALUSTRADES, HANDRAILS, ETC</u>		
	<u>Handrails</u>		
1351	50 x 2.5mm Hollow section round handrail	m	143.23
1352	Extra for capped end	No	34.67
1353	Bracket formed of 12mm diameter solid bar 260mm girth once bent, welded to handrail and set bar into wall with epoxy grout	No	49.56
	<u>MILD STEEL SUNDRIES</u>		
	<u>Seat brackets</u>		
1354	40 x 40 x 3mm Mild steel angle iron in triangular shaped bracket size 440 x 300mm overall three times bolted to walls with and including 8mm diameter expanding bolts	No	419.06
1355	Seat frame size 425 x 405mm high overall formed of 38 x 38 x 3mm square hollow section 425mm long horizontal bearer welded to 38mm diameter hollow section vertical legs 405mm high with and including two 80 x 80 x 3mm mild steel base plates welded on to leg and bearer and twice bolted to floor and wall with and including 8mm expanding bolts	No	675.58
	<u>Recessed mat frames</u>		
1356	Mat frame size 600 x 1200mm overall formed of 50 x 3mm flat section frame around with and including 30 x 50 x 3mm mild steel angle section lugs each 50mm long welded all round at approximately 400mm centres including embedding in screed	No	768.18
	<u>Washing lines</u>		
1357	Approved PVC coated washing line stretched taut and tied to straining bolts (elsewhere measured)	m	33.32
	Bill No. 19 METALWORK		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1358	T-shaped washing line post 1900mm high x 900mm wide extreme formed of 75mm diameter x 3mm thick hollow section post 1890mm high with 150 x 150 x 10mm mild steel base plate welded to one end including two 10mm diameter mild steel U-shaped anchor rods each 420mm girth overall welded to baseplate and four 8mm diameter x 50mm long mild steel hook bolts welded on and set up into position and cast into and including 250 x 250 x 400mm deep class 20MPa/19mm concrete footing including all excavations, backfilling, etc	No	2,115.18
1359	150mm Galvanised turn-buckle tension bolts	No	99.36
	<u>MILD STEEL GRILLE GATES</u>		
	<u>Gate frames and posts</u>		
1360	40 x 40 x 3mm Mild steel hollow section gate post 2000mm long with and including three dovetailed lugs size 20 x 3 x 250mm long welded on and built into brick wall	No	620.83
	<u>Gates</u>		
1361	Single gate leaf size 810 x 2000mm high overall formed of 40 x 40 x 3mm mild steel hollow section frame around and two horizontal intermediate rails and filled in with and including 20 x 20 x 2mm hollow section vertical bars at approximately 70mm centres passed through and welded to the intermediate rails, including two 100mm weld-on type hinges, narrow style double cylinder lock with escutcheons riveted to leaf and a 40 x 5mm mild steel flat gate stop welded on to one stile for the full gate height	No	5,273.65
1362	Double gate size 1510 x 2000mm high overall in two equal width leaves, each leaf formed of 40 x 40 x 3mm mild steel hollow section frame around and two horizontal intermediate rails and filled in with and including 20 x 20 x 2mm hollow section vertical bars at approximately 70mm centres passed through and welded to the intermediate rails, including two 100mm weld-on type hinges to each leaf, narrow style double cylinder lock with escutcheons riveted to leaf, 40 x 5mm mild steel flat gate stop welded on to one stile for the full gate height and suitable 300mm long drop bolt and keep to one leaf	No	9,241.80
	<u>MILD STEEL WINDOWS AND DOORS</u>		
	<u>Residential type windows with solid brass or chromium plated fittings and factory fitted with and including type NBP33 burglar bars to the whole of the window</u>		
1363	Window type NG1 size 533 x 359mm high	No	1,112.28
1364	Window type NE1 size 533 x 654mm high	No	1,446.24
1365	Window type NC1 size 533 x 949mm high	No	1,710.70
1366	Window type ND1 size 533 x 1245mm high	No	1,972.26
1367	Window type NG2 size 1022 x 359mm high	No	1,640.41
	Bill No. 19 METALWORK		
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1368	Window type NE2 size 1022 x 654mm high	No	1,588.91
1369	Window type NC2 size 1022 x 949mm high	No	1,991.43
1370	Window type ND8 size 1022 x 1245mm high	No	1,471.26
1371	Window type ND2 size 1022 x 1245mm high	No	2,229.98
1372	Window type ND2F size 1022 x 1245mm high	No	2,691.87
1373	Window type NE4 size 1511 x 654mm high	No	2,482.22
1374	Window type NC4 size 1511 x 949mm high	No	3,237.94
1375	Window type ND4 size 1511 x 1245mm high	No	3,504.81
1376	Window type ND4F size 1511 x 1245mm high	No	4,069.53
1377	Window type ND510 size 1511 x 1540mm high	No	3,030.30
1378	Window type ND54F size 1511 x 1540mm high	No	4,628.55
<u>Residential type windows with horizontal bars with solid brass or chromium plated fittings and fitted with and including type NBP33 burglar bars to the opening sections only</u>			
1379	Window type E1H size 533 x 654mm high	No	1,464.03
1380	Window type C1H size 533 x 949mm high	No	1,781.64
1381	Window type D1H size 533 x 1245mm high	No	1,961.90
1382	Window type E2H size 1022 x 654mm high	No	1,636.48
1383	Window type C2H size 1022 x 949mm high	No	2,107.37
1384	Window type D8H size 1022 x 1245mm high	No	1,571.84
1385	Window type D2H size 1022 x 1245mm high	No	2,368.18
1386	Window type D2FH size 1022 x 1245mm high	No	2,898.70
1387	Window type E4H size 1511 x 654mm high	No	2,536.07
1388	Window type C4H size 1511 x 949mm high	No	3,326.34
Bill No. 19 METALWORK		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1389	Window type D4H size 1511 x 1245mm high	No	3,304.76
1390	Window type ND4F size 1511 x 1245mm high	No	3,956.50
<u>Residential type windows with horizontal and vertical bars with solid brass or chromium plated fittings and fitted with and including type NBP33 burglar bars to the opening sections only</u>			
1391	Window type E1 size 533 x 654mm high	No	1,623.82
1392	Window type C1size 533 x 949mm high	No	2,040.70
1393	Window type D1 size 533 x 1245mm high	No	2,278.80
1394	Window type E2 size 1022 x 654mm high	No	2,112.06
1395	Window type C2 size 1022 x 949mm high	No	2,453.78
1396	Window type D2 size 1022 x 1245mm high	No	2,938.30
1397	Window type D2F size 1022 x 1245mm high	No	3,523.87
1398	Window type E4 size 1511 x 654mm high	No	3,085.54
1399	Window type C4 size 1511 x 949mm high	No	3,979.82
1400	Window type D4 size 1511 x 1245mm high	No	4,781.44
1401	Window type C4F size 1511 x 949mm high	No	4,535.83
1402	Window type D4F size 1511 x 1245mm high	No	5,269.62
1403	Window type D54F size 1511 x 1245mm high	No	6,341.74
<u>Industrial type windows with solid brass or chromium plated fittings</u>			
1404	Window type SSF32 size 978 x 987mm high	No	1,881.26
1405	Window type SS32 size 978 x 987mm high	No	4,292.73
1406	Window type SSF33 size 978 x 1445mm high	No	2,438.40
1407	Window type SS33 size 978 x 1445mm high	No	5,253.68
Bill No. 19 METALWORK		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>School type windows with solid brass or chromium plated fittings</u>		
1408	Window type 9 size 889 x 457mm high	No	1,220.40
1409	Window type 4 size 889 x 457mm high	No	3,449.36
1410	Window type 3 size 889 x 457mm high	No	3,476.69
1411	Window type 11 size 889 x 854mm high	No	4,088.88
1412	Window type 6 size 889 x 854mm high	No	4,509.13
1413	Horizontal coupling mullion between 889mm windows to form composite window	No	318.29
1414	Window type 8 size 1143 x 457mm high	No	3,259.20
1415	Window type 2 size 1143 x 457mm high	No	3,669.71
1416	Window type 1 size 1143 x 457mm high	No	3,668.56
1417	Window type 10 size 1143 x 854mm high	No	4,315.23
1418	Window type 5 size 1143 x 854mm high	No	5,002.47
1419	Horizontal coupling mullion between 1143mm windows to form composite window	No	370.67
	<u>Doors and sidelights with the doors fitted with three lever locksets with chromium plated furniture</u>		
1420	Sidelight type SDAS size 800 x 2134mm high including coupling mullion for fitting door (door elsewhere measured)	No	4,745.36
1421	Door type DAS size 800 x 2134mm high	No	10,321.35
1422	Double door type DDA size 1511 x 2134mm high	No	17,460.52
	<u>BURGLAR BARS</u>		
	<u>Standard burglar bars as supplied by the window manufacturer type NBP 33 with 20 x 5mm horizontal and vertical bars welded on to existing mild steel windows</u>		
1423	Burglar bars to suit opening sections of type G windows size 533 x 357mm	No	196.20
1424	Burglar bars to suit opening sections of type E windows size 533 x 654mm	No	367.15
1425	Burglar bars to suit opening sections of type C windows size 533 x 951mm	No	483.98
	Bill No. 19 METALWORK		
			Initial here.....

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1426	Burglar bars to suit opening sections of type D windows size 533 x 1248mm	No	614.07
1427	Burglar bars to suit opening sections of type D50 windows size 533 x 1545mm	No	747.06
1428	Burglar bars to suit opening sections of type G windows size 533 x 357mm	No	220.31
<u>Purpose made mild steel burglar bars welded to steel windows</u>			
1429	Burglar bars of 10mm diameter mild steel solid bars to brick pattern with the vertical bars at 100mm centres and the horizontal bars at 200mm centres welded on	m2	658.23
1430	Burglar bars of 12mm diameter mild steel solid bars to brick pattern with the vertical bars at 100mm centres and the horizontal bars at 200mm centres welded on	m2	907.53
1431	Burglar bars of 10 x 10mm mild steel solid bars to brick pattern with the vertical bars at 100mm centres and the horizontal bars at 200mm centres welded on	m2	838.42
1432	Burglar bars of 12 x 12mm mild steel solid bars to brick pattern with the vertical bars at 100mm centres and the horizontal bars at 200mm centres welded on	m2	1,135.88
1433	Burglar bars of 20 x 5mm mild steel solid bars to brick pattern with the vertical bars at 100mm centres and the horizontal bars at 200mm centres welded on	m2	865.84
1434	Burglar bars of 25 x 5mm mild steel solid bars to brick pattern with the vertical bars at 100mm centres and the horizontal bars at 200mm centres welded on	m2	1,051.51
<u>FLYSCREENS</u>			
<u>Baked enamel flyscreens fitted to the opening sections of steel windows</u>			
1435	Flyscreen to suit type G opening section	No	757.94
1436	Flyscreen to suit type E opening section	No	904.64
1437	Flyscreen to suit type C opening section	No	1,004.86
1438	Flyscreen to suit type D opening section	No	1,033.72
1439	Flyscreen to suit type D50 opening section	No	1,070.20
<u>Aluminium flyscreens fitted to the opening sections of steel windows</u>			
1440	Flyscreen to suit type G opening section	No	792.99
1441	Flyscreen to suit type E opening section	No	946.21
Bill No. 19 METALWORK		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1442	Flyscreen to suit type C opening section	No	1,047.80
1443	Flyscreen to suit type D opening section	No	1,161.65
1444	Flyscreen to suit type D50 opening section	No	1,171.96
<u>PRESSED STEEL DOOR FRAMES</u>			
<u>1.2mm Double rebated frames suitable for half brick walls</u>			
1445	Frame for door size 762 x 2032mm high	No	1,859.87
1446	Frame for door size 813 x 2032mm high	No	1,916.82
1447	Frame for door size 813 x 2032mm high with 305mm high fanlight over	No	2,549.17
1448	Frame for double door size 1511 x 2032mm high	No	2,855.59
1449	Frame for double door size 1511 x 2032mm high with 305mm high fanlight over	No	3,127.20
<u>1.2mm Double rebated frames suitable for one brick walls</u>			
1450	Frame for door size 762 x 2032mm high	No	2,129.14
1451	Frame for door size 813 x 2032mm high	No	2,146.46
1452	Frame for door size 813 x 2032mm high with 305mm high fanlight over	No	2,841.15
1453	Frame for double door size 1511 x 2032mm high	No	3,434.80
1454	Frame for double door size 1511 x 2032mm high with 305mm high fanlight over	No	3,852.45
<u>1.6mm Double rebated frames suitable for half brick walls</u>			
1455	Frame for door size 762 x 2032mm high	No	2,113.70
1456	Frame for door size 813 x 2032mm high	No	2,120.33
1457	Frame for door size 813 x 2032mm high with 305mm high fanlight over	No	2,424.11
1458	Frame for double door size 1511 x 2032mm high	No	3,284.87
1459	Frame for double door size 1511 x 2032mm high with 305mm high fanlight over	No	3,849.12
Bill No. 19 METALWORK		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>1.6mm Double rebated frames suitable for one brick walls</u>		
1460	Frame for door size 762 x 2032mm high	No	2,679.09
1461	Frame for door size 813 x 2032mm high	No	2,736.03
1462	Frame for door size 813 x 2032mm high with 305mm high fanlight over	No	3,668.70
1463	Frame for double door size 1511 x 2032mm high	No	4,132.91
1464	Frame for double door size 1511 x 2032mm high with 305mm high fanlight over	No	4,783.42
	<u>PRESSED STEEL CUPBOARD DOOR FRAMES</u>		
	<u>1.2mm Rebated cupboard door frames</u>		
1465	Frame type CAS size 673 x 2064mm high overall	No	2,174.21
1466	Frame type CAL size 826 x 2064mm high overall	No	2,309.02
1467	Frame type CBS size 1270 x 2064mm high overall	No	2,556.10
1468	Frame type CBL size 1575 x 2064mm high overall	No	2,658.99
1469	Frame type CBFS size 1270 x 2553mm high overall	No	3,162.42
1470	Frame type CBFL size 1575 x 2533mm high overall	No	3,458.49
	<u>PRESSED STEEL COMBINATION DOORS AND FRAMES</u>		
	<u>Combination single panel chawl type doors with 1.2mm rebated door frames to suit half brick walls</u>		
1471	Frame with door size 762 x 2032mm high with padlatch	No	3,727.05
1472	Frame with door size 813 x 2032mm high with padlatch	No	3,711.70
1473	Frame with door size 813 x 2032mm high with three lever lockset and chromium plated furniture	No	3,851.73
	<u>Combination single panel chawl type doors with 1.2mm rebated door frames to suit one brick walls</u>		
1474	Frame with door size 762 x 2032mm high with padlatch	No	3,829.02
1475	Frame with door size 813 x 2032mm high with padlatch	No	3,834.34
	Bill No. 19 METALWORK		
		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1476	Frame with door size 813 x 2032mm high with three lever lockset and chromium plated furniture	No	4,108.36
<u>PRESSED STEEL TRANSFORMER ROOM DOORS AND FRAMES</u>			
<u>Combination transformer room doors with 1.6mm rebated door frames to suit one brick walls with five pin cylinder lockset</u>			
1477	Transformer room door and frame type BV size 914 x 2135mm high overall with vent in door	No	26,414.97
1478	Transformer room door and frame type YV size 1524 x 2440mm high overall with vents in doors	No	31,949.48
1479	Transformer room door and frame type DV size 1830 x 2440mm high overall with vents in doors	No	29,081.29
<u>PRESSED STEEL FIXED LOUVRES</u>			
<u>1.6mm Pressed steel fixed louvres with internal vermin and mosquito gauze</u>			
1480	Louvres type LA fitted to 533mm wide steel window (window elsewhere measured)	m2	4,085.58
1481	Louvres type LA fitted to 1022mm wide steel window (window elsewhere measured)	m2	9,833.62
1482	Louvres type LA fitted to 1511mm wide steel window (window elsewhere measured)	m2	17,487.29
1483	Louvres type LC fitted to 533mm wide steel window (window elsewhere measured)	m2	10,018.18
1484	Louvres type LC fitted to 1022mm wide steel window (window elsewhere measured)	m2	11,714.53
1485	Louvres type LC fitted to 1511mm wide steel window (window elsewhere measured)	m2	19,839.78
<u>GARAGE DOORS</u>			
<u>Standard manually operated roll-up garage door complete with lock, handles, guides, hinges, fixing bolts, tracks etc., fixed to brickwork or concrete</u>			
1486	Galvanised steel roll-up garage door to suit opening size 2500 x 2100mm high	No	5,700.75
1487	Chromadek finished galvanised steel roll-up garage door to suit opening size 2500 x 2100mm high	No	6,681.73
Bill No. 19 METALWORK		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>INDUSTRIAL TYPE ROLLER SHUTTER DOORS</u>		
	<u>Galvanised mild steel push-up slatted curtain roller shutters complete with standard bottom rail with overhead box 335mm high, 75mm wide guides, extruded aluminium T-bar with rubber seal and hot dip galvanised ancillary components including 4.5mm thick end plates, guide rails, slide bolt, etc. fixed to brick jambs and concrete lintel over and with canopy cover</u>		
1488	Galvanised roller shutter to suit opening size 1200 x 1200mm high	No	13,295.37
1489	Galvanised roller shutter to suit opening size 1500 x 1200mm high	No	15,244.44
1490	Galvanised roller shutter to suit opening size 2400 x 2100mm high	No	24,032.02
	<u>Galvanised mild steel crank operated slatted curtain roller shutters complete with standard bottom rail with overhead box 335mm high, 75mm wide guides, extruded aluminium T-bar with rubber seal and hot dip galvanised ancillary components including 4.5mm thick end plates, guide rails, slide bolt, etc. fixed to brick jambs and concrete lintel over and with canopy cover</u>		
1491	Galvanised roller shutter to suit opening size 3600 x 2400mm high	No	48,408.53
	<u>STRONG ROOM AND RECORD ROOM DOORS AND VENTILATORS, ETC</u>		
1492	Mutual Austen Safes Model DS1 record room door and frame size 750 x 1870mm high overall 7-lever security keylock and metal handles	No	33,425.72
1493	Mutual Austen Safes Model DS50/1 SABS Category 1 strong room door and frame size 760 x 1860mm high overall 7-lever security keylock and metal handles	No	49,931.65
1494	Mutual Austen Safes Model DS50/2 SABS Category 2 (light duty) strong room door and frame size 760 x 1860mm high overall 7-lever security keylock and metal handles	No	41,193.32
1495	Heavy duty strong room door stop fixed in position	No	2,299.51
1496	Double ended strongroom ventilator with drop shutter	No	3,563.46
	Bill No. 19 METALWORK		
			Initial here.....

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>ALUMINIUM DOORS, WINDOWS, ETC</u>		
	Notes:		
1	All windows, doors, screens, sidelights and fanlights are to be of natural anodised or bronze anodised aluminium to AAMSA standards and specifications.		
2	Aluminium windows, doors, screens, sidelights and fanlights are to be fitted with the glass as specified. Doors are to be fitted with aluminium weather bars with rubber seals. Prices must include for aluminium hinges and all required ironmongery.		
3	Unless otherwise described, all frames, etc shall be fitted to prepared openings in brick or concrete walls and shall be sealed around with approved silicone sealer to both sides.		
4	The aluminium frames are to be protected during construction against scratching, paint splashes, etc.		
	<u>Natural anodised aluminium sliding doors glazed with and including 5mm toughened safety armourplate glass</u>		
1497	Sliding door type SD 1521 XO to suit opening size 1500 x 2100mm high	No	8,744.44
1498	Sliding door type SD 1521 XO to suit opening size 1500 x 2100mm high	No	10,012.09
1499	Sliding door type SD 2121 XO to suit opening size 2100 x 2100mm high	No	11,856.49
	<u>Natural anodised aluminium doors glazed with and including 5mm toughened safety armourplate glass and fitted with double cylinder lockset and anodsied aluminium furniture</u>		
1500	Olympia type single door and frame to suit opening size 900 x 2100mm high	No	13,005.99
1501	Olympia type double door and frame to suit opening size 1730 x 2100mm high	No	20,940.48
	<u>Natural anodised aluminium horizontal sliding windows glazed with and including 4mm clear float glass</u>		
1502	Window type HS 99 to suit opening size 900 x 900mm high	No	3,733.29
1503	Window type HS 129 to suit opening size 1200 x 900mm high	No	4,601.36
1504	Window type HS 1212 to suit opening size 1200 x 1200mm high	No	5,495.46
1505	Window type HS 1215 to suit opening size 1200 x 1500mm high	No	6,458.21
1506	Window type HS 159 to suit opening size 1500 x 900mm high	No	5,129.90
1507	Window type HS 1512 to suit opening size 1500 x 1200mm high	No	6,348.76
	Bill No. 19 METALWORK		
			Initial here.....

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1508	Window type HS 1515 to suit opening size 1500 x 1500mm high	No	6,917.57
1509	Extra for glazing with 4mm obscure glass in lieu of 4mm clear float glass (measured across the full window area)	m2	885.24
1510	Extra for glazing with 6.38mm NS intruderprufe laminated safety glass in lieu of 4mm clear float glass (measured across the full window area)	m2	722.70
<u>Natural anodised aluminium top-hung projected-out windows glazed with and including 4mm clear float glass</u>			
1511	Window type PT 66 to suit opening size 600 x 600mm high	No	2,211.64
1512	Window type PT 69 to suit opening size 600 x 900mm high	No	2,535.56
1513	Window type PT 612 to suit opening size 600 x 1200mm high	No	3,033.80
1514	Window type PT 99 to suit opening size 900 x 900mm high	No	3,285.31
1515	Window type PT 912 to suit opening size 900 x 1200mm high	No	3,803.05
1516	Window type PT 126 to suit opening size 1200 x 600mm high	No	3,627.74
1517	Window type PT 129 to suit opening size 1200 x 900mm high	No	3,609.61
1518	Window type PT 1212 to suit opening size 1200 x 1200mm high	No	5,281.50
<u>Epoxy powder coated aluminium windows to suit precast concrete window block system and glazed with and including 4mm clear float glass</u>			
1519	Fixed frame to suit square block size 590 x 590mm	No	1,287.98
1520	Top-hung window to suit square block size 590 x 590mm	No	2,159.77
1521	Burglars bars fitted to window size 590 x 590mm	No	482.17
END OF BILL			
Bill No. 19 METALWORK		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>BILL No 18</u>		
	<u>PLASTERING</u>		
	<u>NOTE :</u>		
1	Rates must include for preparing brick or concrete surfaces to receive plaster or screeds. Concrete and brick surfaces to receive plaster must be properly wire brushed to remove all loose and flaking material. Vertical concrete surfaces and soffits must also be slushed with a cement mortar slurry before any plastering commences.		
2	Plaster and screeds must be kept damp at all times to ensure that they cure properly and to avoid shrinkage cracks.		
3	No plasterwork must be done in excessively hot or windy conditions.		
	<u>SCREEDS</u>		
	<u>Screeds wood floated or steel trowelled on concrete</u>		
1522	15mm Thick on tops of slabs	m2	113.19
1523	20mm Thick on floors and landings	m2	125.74
1524	25mm Thick on floors and landings	m2	140.05
1525	30mm Thick on floors and landings	m2	155.32
1526	35mm Thick on floors and landings	m2	166.09
1527	Average 50mm thick on flat roofs and gutters to falls and cross falls	m2	213.88
1528	Average 70mm thick on flat roofs and gutters to falls and cross falls	m2	260.79
1529	25mm Thick to treads and risers	m2	149.62
1530	20mm Thick on narrow widths	m2	143.62
	<u>GRANOLITHIC</u>		
	<u>Untinted granolithic on concrete</u>		
1531	30mm Thick on floors and landings	m2	163.83
1532	30mm Thick on treads and risers including v-groove reedings	m2	180.87
	Bill No. 20 PLASTERING		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1533	20mm Thick on narrow widths	m2	157.65
1534	Coved skirting 75mm high	m	52.91
1535	Coved skirting 75mm high stepped to treads and risers	m	59.36
<u>EXTERNAL PLASTER</u>			
<u>One coat cement plaster wood floated smooth on brickwork to</u>			
1536	Walls	m2	114.26
1537	Narrow widths	m2	125.62
1538	Circular narrow widths	m2	125.01
1539	Weathered or sloping narrow widths	m2	128.71
1540	Weathered coping in narrow widths	m2	126.26
1541	Plaster band size 50 x 100mm high	m	39.99
<u>One coat cement plaster wood floated on concrete to</u>			
1542	Ceilings and soffits	m2	138.45
1543	Projecting and isolated columns	m2	125.03
1544	Projecting and isolated beams	m2	125.88
<u>INTERNAL PLASTER</u>			
<u>One coat compo plaster steel trowelled smooth on brickwork to</u>			
1545	Walls	m2	128.58
1546	Narrow widths	m2	141.99
<u>One coat compo plaster steel trowelled on concrete to</u>			
1547	Tops of slabs	m2	131.53
1548	Ceilings and soffits	m2	150.83
1549	Projecting and isolated columns	m2	142.22
<p>Bill No. 20 PLASTERING</p> <p style="text-align: right;">Initial here.....</p>			

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1550	Projecting and isolated beams	m2	143.10
1551	Narrow widths	m2	143.04
<u>SPECIALIST PLASTER WALL COATINGS</u>			
Note :			
1	All specialist plaster wall coverings are to be executed in strict accordance with the manufacturer's instructions.		
<u>3mm Thick Reibeputz Grob wall coating comprising one coat Isoliergrund bonding liquid, one coat Reibeputz scratch plaster containing silicone chips and one coat finishing colour steel trowelled on plastered brick surfaces or smooth concrete surfaces to:</u>			
1552	Walls	m2	305.76
1553	Projecting and isolated columns	m2	319.41
1554	Projecting and isolated beams	m2	319.41
1555	Ceilings and soffits	m2	352.31
1556	Narrow widths	m2	322.74
<u>1.8mm Thick grade fine 'Perarill' comprising one coat 'Peraseal' sealer, one coat super acrylic PVA paint and one coat tinted fine grade 'Perarill' rubbing plaster containing quartz dust and pebbles applied with a stainless steel trowel and finished off with a plastic trowel to:</u>			
1557	Walls	m2	221.36
1558	Projecting and isolated columns	m2	236.11
1559	Projecting and isolated beams	m2	236.11
1560	Ceilings and soffits	m2	253.40
1561	Narrow widths	m2	239.32
<u>DIVIDING STRIPS, WATER BARS, CORNER PROTECTORS, ETC</u>			
<u>Mild steel</u>			
1562	50 x 50 x 5mm Angle section edge protector in various lengths with and including 3 x 25mm flat section bent lugs each 200mm girth welded on at maximum 300mm centres including embedding in concrete	m	145.47
Bill No. 20 PLASTERING			
Initial here.....			

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Galvanised</u>		
1563	0.5mm Mentis galvanised corner protector 1500mm fixed to wall vertically	No	144.94
1564	3 x 30mm Water bar set into screed or into groove in concrete	m	162.40
1565	50 x 50 x 2mm Angle section corner protector plugged to wall	m	127.84
	<u>Brass</u>		
1566	3 x 30mm Brass dividing strip set into screed at junction between different floor finishes	m	452.66
1567	5 x 50mm Brass dividing strip set into screed at junction between different floor finishes	m	728.12
	<u>Aluminium</u>		
1568	50 x 50 x 3mm Angle section corner protectors 1200mm long screwed to walls with five countersunk stainless steel screws and bedded in clear silicone	No	231.91
	END OF BILL		
	Bill No. 20 PLASTERING		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>BILL No 19</u>		
	<u>TILING</u>		
	<u>WALL TILING</u>		
	<u>152 x 152 x 5mm Thick white glazed ceramic wall tiles fixed with adhesive to plaster (elsewhere measured) and flush pointed with an approved cement based grout to:</u>		
1569	Walls	m2	427.95
1570	Tops of slabs	m2	427.95
1571	Narrow widths	m2	448.83
	<u>200 x 200 x 5mm White glazed ceramic wall tiles to:</u>		
1572	Walls	m2	450.55
1573	Tops of slabs	m2	450.55
1574	Narrow widths	m2	472.52
	<u>Take delivery of, transport to the site, store, protect and lay ceramic tiles fixed with and including adhesive to plastered surfaces (elsewhere measured) and flush pointed with an approved tinted waterproof jointing compound on (cost of wall tiles elsewhere)</u>		
1575	Walls	m2	481.66
1576	Narrow widths	m2	560.59
	<u>FLOOR TILING</u>		
	<u>Take delivery of, transport to the site, store, protect and lay ceramic floor tiles of differing sizes fixed with and including adhesive to screeded surfaces (elsewhere measured) and flush pointed with an approved tinted waterproof jointing compound on (cost of floor tiles elsewhere)</u>		
1577	Floors to patterns	m2	184.15
1578	Skirting 100mm high	m	25.48
1579	Skirting 100mm high stepped to profile of treads and risers	m	29.69
1580	Risers 170mm high	m	42.11
	Bill No. 21 TILING		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1581	Treads 275mm wide	m	62.91
	<u>Take delivery of, transport to the site, store, protect and lay mazita or natural stone floor tiles of differing sizes fixed with and including adhesive to screeded surfaces (elsewhere measured) and flush pointed with an approved tinted waterproof jointing compound on (cost of floor tiles elsewhere)</u>		
1582	Floors to patterns	m2	190.61
1583	Skirting 100mm high	m	25.81
1584	Skirting 100mm high stepped to profile of treads and risers	m	30.00
1585	Risers 170mm high	m	43.00
1586	Treads 275mm wide	m	64.62
	<u>Take delivery of, transport to the site, store, protect and lay porcelain floor tiles of differing sizes fixed with and including adhesive to screeded surfaces (elsewhere measured) and flush pointed with an approved tinted waterproof jointing compound on (cost of floor tiles elsewhere)</u>		
1587	Floors to patterns	m2	181.34
1588	Skirting 100mm high	m	25.36
1589	Skirting 100mm high stepped to profile of treads and risers	m	28.07
1590	Risers 170mm high	m	38.30
1591	Treads 275mm wide	m	59.80
	<u>SOAP DISHES, TOILET ROLL HOLDERS, ETC</u>		
1592	Standard white glazed semi recessed toilet roll holder with ashtray size 150 x 150mm	No	307.76
1593	Standard white glazed semi recessed single soap dish size 150 x 150mm	No	321.97
1594	Standard white glazed semi recessed double soap dish size 300 x 150mm	No	417.86
	<u>SUNDRIES</u>		
	<u>PVC tiling edge strips, etc.</u>		
1595	Bull nosed tiling edge or corner strip suitable for 5mm tiles	m	44.58
	Bill No. 21 TILING		
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1596	Bull nosed tiling edge or corner strip suitable for 6mm tiles	m	48.22
1597	Bull nosed tiling edge or corner strip suitable for 8mm tiles	m	53.55
1598	Bull nosed tiling edge or corner strip suitable for 10mm tiles	m	65.31
1599	Tiling movement joint strip 100mm wide suitable for 10mm tiles	m	84.18
	<u>Natural anodised aluminium tiling edge strips, etc.</u>		
1600	Bull nosed tiling edge or corner strip suitable for 5mm tiles	m	146.52
1601	Bull nosed tiling edge or corner strip suitable for 6mm tiles	m	153.14
1602	Bull nosed tiling edge or corner strip suitable for 8mm tiles	m	168.29
1603	Bull nosed tiling edge or corner strip suitable for 10mm tiles	m	183.66
1604	Tiling movement joint strip 100mm wide suitable for 10mm tiles	m	203.57
1605	Bath access panel size 300 x 300mm	No	577.66
	END OF BILL		
	Bill No. 21 TILING		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<p><u>BILL No 20</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p><u>NOTES :</u></p> <p>1 <u>uPVC Pipes and Fittings</u> Soil, waste and vent pipes and fittings shall be solvent weld jointed.</p> <p>2 <u>uPVC Pressure pipes and fittings</u> Pipes for water supply shall be of the class stated.</p> <p style="padding-left: 20px;">Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings.</p> <p style="padding-left: 20px;">Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints.</p> <p>3 <u>Copper pipes</u> Pipes shall be hard drawn and half hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half hard), class 2 (half hard) and class 3 (heavy walled half hard) pipes shall only be bent with benders with inner and outer formers.</p> <p style="padding-left: 20px;">Fittings to copper waste, vent and anti syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" or other equal and approved. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.</p> <p>4 <u>Fixing of pipes</u> Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level.</p> <p>5 <u>Reducing fittings</u> Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.</p> <p>6 <u>Wire gratings</u> Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings.</p>		
	<p>Bill No. 22 PLUMBING AND DRAINAGE</p> <p style="text-align: right;">Initial here.....</p>		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
7	<p><u>Laying, backfilling, bedding, etc of pipes</u> Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.</p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:</p> <p style="padding-left: 40px;">SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage</p> <p>Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200:</p> <p style="padding-left: 40px;">DB : Earthworks (Pipe trenches)</p> <p>Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200</p> <p style="padding-left: 40px;">LB : Bedding (Pipes).</p> <p>Unless otherwise described bedding of rigid pipes shall be class B bedding.</p>		
8	<p><u>Flush pans</u> Flush pans shall have straight or side outlets and "P" or "S" traps as necessary.</p>		
9	<p><u>Stainless steel basins, sinks, wash troughs, urinals, etc.</u> Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.</p>		
10	<p><u>Waste unions</u> Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.</p>		
11	<p><u>"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd or other equal and approved.</u> All galvanised mild steel pipes laid in ground are to be taped and shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described.</p>		
<p>Bill No. 22 PLUMBING AND DRAINAGE</p>			<p>Initial here.....</p>

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>RAINWATER DISPOSAL</u>		
	<u>Fibre cement box gutters and downpipes with all joints sealed with mastic jointing compound</u>		
1606	150 x 125 x 150mm VHV eaves gutter with aluminium alloy gutter brackets at 350mm centres to form pattern and fixed to fascia	m	585.87
1607	Extra over gutter for stopped end	No	231.75
1608	Extra over gutter for 90° angle	No	600.12
1609	Extra over gutter for centre outlet with nozzle for and joint to 100 x 75mm rainwater downpipe including grating	No	546.73
1610	100 x 75mm Rainwater downpipe fixed to walls with standard aluminium alloy brackets	m	394.46
1611	Extra over down pipe for outlet shoe	No	647.26
1612	Extra over down pipe for swan neck 305mm projection	No	912.65
1613	Extra over down pipe for swan neck 610mm projection	No	1,109.55
1614	Extra over down pipe for swan neck 915mm projection	No	1,287.73
	<u>0.8mm Galvanised sheet iron in</u>		
1615	100mm Half round eaves gutter fixed to edge of roof sheeting and purlin with standard brackets	m	246.84
1616	Extra over gutter for stopped end	No	112.39
1617	Extra over gutter for 90° angle	No	634.61
1618	Extra over gutter for 100 x 75mm outlet including wire balloon grating	No	183.94
1619	125 x 100 x 125mm VHV eaves gutter fixed to edge of roof sheeting and purlin with standard brackets	m	316.25
1620	Extra over gutter for stopped end	No	130.69
1621	Extra over gutter for 90° angle	No	721.49
1622	Extra over gutter for 100 x 75mm outlet including wire balloon grating	No	258.54
1623	100 x 75mm Rainwater down pipe fixed to walls with standard brackets	m	379.59
	Bill No. 22 PLUMBING AND DRAINAGE		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1624	Extra over down pipe for outlet shoe	No	209.44
1625	Extra over down pipe for swan neck 305mm projection	No	439.92
1626	Extra over down pipe for swan neck 610mm projection	No	480.44
1627	Extra over down pipe for swan neck 915mm projection	No	506.45
<u>PVC gutters and downpipes</u>			
1628	110mm Square profile eaves gutter with beaded front edge fixed with standard fascia brackets	m	199.02
1629	Extra over gutter for stopped end	No	79.40
1630	Extra over gutter for 90° angle	No	235.51
1631	Extra over gutter for 110mm square outlet including wire balloon grating	No	209.50
1632	110mm Square profile rainwater down pipe fixed to walls with standard brackets	m	233.68
1633	Extra over down pipe for outlet shoe	No	110.99
1634	Extra over down pipe for swan neck 305mm projection	No	339.73
1635	Extra over down pipe for swan neck 610mm projection	No	352.98
1636	Extra over down pipe for swan neck 915mm projection	No	398.11
<u>uPVC class 9 pipes</u>			
1637	110mm Pipe cast into concrete column or wall	m	213.03
1638	Extra over downpipe for 110mm bend	No	391.78
<u>'Full-Flow' cast iron roof outlets</u>			
1639	100mm Vertical roof outlet including adaptor coupling and connection to PVC pipe	No	2,746.51
1640	100mm Side outlet roof outlet including adaptor coupling and connection to PVC pipe	No	3,312.86
Bill No. 22 PLUMBING AND DRAINAGE		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>SANITARY FITTINGS</u>		
	Note: All sanitary fittings are to be sealed all round with an approved silicone sealant where they abut against other surfaces.		
	<u>Stainless steel</u>		
1641	Wash hand basin size 520 x 430mm with tiling key and fixed to walls with and including standard brackets	No	2,892.75
1642	Double wash hand basin size 1012 x 43mm with tiling key and fixed to walls with and including standard brackets	No	11,997.34
1643	Single compartment wall hung wash trough size 542 x 430 x 300mm deep and fixed to walls with and including standard brackets	No	3,607.79
1644	Double compartment wall hung wash trough size 1030 x 430 x 300mm deep and fixed to walls with and including standard brackets	No	5,411.19
1645	Wall hung bowl urinal complete with spreader, 40mm waste outlet and domical grating fixed to walls	No	6,036.41
1646	Floor mounted w.c pan without slats fixed to floor	No	11,885.17
1647	11 Litre low level cistern with beta valve, handle, ball valve and flush pipe	No	4,992.29
1648	Single end bowl inset sink and drainer unit size 900 x 500mm	No	3,176.23
1649	Double end bowl inset sink and drainer unit size 1200 x 500mm	No	5,228.57
1650	Double centre bowl inset sink and drainer unit size 1500 x 500mm	No	6,309.55
1651	Drip sink size 535 x 454mm with hinged bucket grating and square stainless steel wall brackets fixed to wall	No	8,537.20
	<u>White vitreous china or glazed fireclay</u>		
1652	Basin size 510 x 405mm with two tapholes bolted to walls	No	1,106.73
1653	Basin size 560 x 400mm with two tap holes fixed to walls with and including semi-concealed cast iron brackets	No	3,685.50
1654	Cloakroom basin size 455 x 290mm with one taphole bolted to walls	No	867.00
	Bill No. 22 PLUMBING AND DRAINAGE		
			Initial here.....

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1655	Self-rimming oval shaped drop-in basin size 595 x 455mm with one tap hole mounted on vanity top (elsewhere measured)	No	2,533.22
1656	Medical basin size 510 x 400mm complete with chrome plated standing overflow tube fixed to walls with and including concealed hanger bracket	No	3,487.33
1657	Laboratory sink size 435 x 335 x 180mm fixed to wall or to underside of slab	No	5,740.51
1658	Low level w.c. suite comprising wash down pan, matching 9 litre low level cistern with lid and fittings, flush pipe and heavy duty double flap and seat fixed to wall and floor	No	3,440.63
1659	Low level close coupled w.c. suite comprising wash down pan with matching 9 litre low level cistern with lid and fittings and heavy duty double flap and seat fixed to wall and floor	No	4,849.96
1660	Low level paraplegic w.c. suite comprising wash down pan, matching 9 litre low level cistern with lid and fittings, purpose made side-flush lever, flush pipe and heavy duty double flap and seat fixed to wall and floor	No	10,814.14
1661	Wall hung flat back urinal complete with spreader and chromium plated domical grating fixed to walls	No	4,675.32
	<u>Polyethylene, duranite, etc</u>		
1662	9 Litre low-level duranite w.c. cistern complete with flushing mechanism, flush lever and flush pipe	No	4,947.38
1663	9 Litre high-level duranite w.c. cistern complete with flushing mechanism, flush lever and flush pipe	No	5,392.40
1664	Polyethylene wc pan with 9 litre duranite low level cistern with extended flush pipe and chromium plated remote flushing control	No	5,447.66
1665	Polyethylene water saving wc suite complete with wash down pan, low level 9 litre duranite cistern, flush pipe, flushing mechanism and double flap heavy duty plastic seat	No	4,587.67
1666	Polyethylene wall hung bowl urinal complete with spreader and domical urinal outlet union	No	2,285.73
	<u>Porcelain enamelled steel baths</u>		
1667	Bath size 1700 x 700mm with adjustable feet, anti-slip finish and chrome handles	No	13,979.58
	<u>WASTE UNIONS ETC</u>		
	<u>Chromium plated brass</u>		
1668	32mm Basin waste union with vulcanite plug and chromium plated chain and stay	No	208.87
	Bill No. 22 PLUMBING AND DRAINAGE		
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1669	40mm Bath or sink waste union with vulcanite plug and chromium plated chain and stay	No	265.56
	<u>Vulcathene</u>		
1670	38mm Basin waste union with vulcanite plug and chromium plated chain and stay	No	1,266.80
	<u>TRAPS ETC</u>		
	<u>uPVC</u>		
1671	40mm Deep seal 'P' or 'S' trap	No	141.09
1672	32mm Bottle trap including tailpipe and wall flange	No	302.55
1673	40mm Bottle trap including tailpipe and wall flange	No	335.58
1674	Spazio No 1 plumbing kit complete with waste fittings	No	385.14
1675	Spazio No 2 plumbing kit complete with waste fittings	No	473.71
	<u>Chromium plated brass</u>		
1676	32mm Bottle trap including tailpipe and wall flange	No	520.17
1677	40mm Bottle trap including tailpipe and wall flange	No	579.29
1678	40mm Bath P-trap with combined overflow outlet pipe	No	439.50
1679	40mm Shower trap with chromium plated grating	No	764.56
	<u>Butyl rubber</u>		
1680	32mm Deep seal 'P' or 'S' trap	No	195.95
1681	40mm Deep seal 'P' or 'S' trap	No	198.85
	<u>Vulcathene</u>		
1682	40mm Deepseal 'P' or 'S' trap	No	161.53
	<u>Floor drains and grease treaps</u>		
1683	Stainless steel floor trap to suit 100mm outlet pipe and with 200 x 200mm perforated inlet floor grating and connection to uPVC pipe, including adaptor coupling	No	3,965.08
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1684	Stainless steel single basket strainer / trap size 600 x 450 x 400mm and connections to uPVC waste pipes	No	30,725.50
	<u>TAPS, VALVES, ETC</u>		
	<u>Gate valves, strainers, etc</u>		
1685	15mm Brass fullway ballcock with handle	No	181.25
1686	20mm Brass fullway ballcock with handle	No	194.82
1687	25mm Brass fullway ballcock with handle	No	281.40
1688	15mm Brass fullway gate valve	No	298.68
1689	20mm Brass fullway gate valve	No	329.24
1690	25mm Brass fullway gate valve	No	530.40
1691	32mm Brass fullway gate valve	No	891.29
1692	40mm Brass fullway gate valve	No	1,080.83
1693	50mm Brass fullway gate valve	No	1,537.50
1694	65mm Brass fullway gate valve	No	2,273.36
1695	80mm Brass fullway gate valve	No	3,725.92
1696	100mm Brass fullway gate valve	No	6,404.09
1697	15mm Brass in-line strainer	No	281.40
1698	20mm Brass in-line strainer	No	371.23
1699	25mm Brass in-line strainer	No	642.11
1700	20mm Brass non-return valve	No	353.30
1701	25mm Brass non-return valve	No	719.10
1702	32mm Brass non-return valve	No	576.45
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Vacuum breakers, relief valves, etc</u>		
1703	15mm Vacuum breaker	No	231.80
1704	20mm Vacuum breaker	No	504.63
1705	20mm Expansion relief valve (200kPa)	No	881.41
1706	20mm Expansion relief valve (400kPa)	No	921.83
1707	20mm 'Masterflo' 200KPa pressure reducing valve with strainer and integral non-return valve	No	2,754.13
1708	20mm 'Masterflo' 400KPa pressure reducing valve with strainer and integral non-return valve	No	2,198.46
	<u>Water meters of semi-positive rotary piston type with flanged connections</u>		
1709	20mm Water meter	No	2,278.95
1710	25mm Water meter	No	3,678.69
1711	40mm Water meter	No	7,236.02
1712	50mm Water meter	No	11,819.34
	<u>Brass taps</u>		
1713	20mm Hose bib tap with hose union	No	514.23
1714	20mm Hose bib tap with lock shield, loose key and hose union	No	1,178.46
1715	15mm Stop tap	No	501.87
1716	20mm Stop tap	No	663.42
1717	25mm Stop tap	No	1,521.62
1718	15mm Push button bib tap	No	2,031.80
1719	20mm Push button bib tap	No	1,886.79
	<u>Chrome plated brass taps and sundries</u>		
1720	15mm Extension piece 75mm long	No	261.51
1721	20mm Extension piece 75mm long	No	264.65
	Bill No. 22 PLUMBING AND DRAINAGE		
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1722	10mm Stainless steel braided connector pipe 315mm girth with chromium plated connectors both ends bent as required	No	131.31
1723	15mm Angle regulating valve only	No	180.71
1724	15mm Angle regulating valve with 10mm chromium plated copper service pipe 300mm girth bent as required	No	333.49
1725	15mm Angle regulating valve with stainless steel braided connector pipe 315mm girth with chromium plated connectors both ends bent as required	No	259.58
1726	15mm Toilet bib tap	No	797.91
1727	20mm Toilet bib tap	No	1,162.88
1728	15mm Hose bib tap without hose union	No	1,086.15
1729	15mm Hose bib tap with hose union	No	1,357.02
1730	15mm Raised nose pillar tap	No	2,101.35
1731	20mm Raised nose pillar tap	No	2,069.51
1732	15mm Square pattern pillar tap with aerator	No	1,616.02
1733	20mm Square pattern pillar tap with aerator	No	1,840.64
1734	15mm Underwall pattern stop tap with cover plate	No	1,169.08
1735	20mm Underwall pattern stop tap with cover plate	No	1,893.39
1736	15mm Wall type sink mixer with overarm swivel outlet	No	4,336.77
1737	15mm Pillar type sink mixer with overarm swivel outlet	No	1,948.02
1738	15mm Single taphole basin mixer with swivel outlet, pop-up waste and angle regulating valves	No	4,435.51
1739	15mm Single taphole sink mixer with swivel outlet and angle regulating valves	No	5,448.53
1740	20mm Wall type bath mixer	No	8,405.24
1741	20mm Wall type bath mixer with diverter spout, conical cradle and handshower with flexible tube	No	9,118.12
1742	15mm Shower rose 85mm diameter	No	480.36
Bill No. 22 PLUMBING AND DRAINAGE			
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1743	15mm Shower arm with cover plate	No	261.73
1744	15mm Underwall type shower cubicle set comprising two underwall pattern stop taps with cover plates, overhead shower arm and adjustable shower rose	No	4,976.74
<u>Chromium plated brass medical taps and mixers</u>			
1745	15mm Elbow action pillar tap	No	3,360.62
1746	15mm Elbow action hose bib tap without hose union	No	3,028.51
1747	15mm Elbow action pillar type medical mixer with swanneck swivel outlet	No	9,454.50
1748	15mm Elbow action wall type medical mixer with swivel outlet	No	13,376.99
<u>Special valves and fittings</u>			
1749	15mm 'Vandalmaster' chromium plated shower head	No	2,205.66
1750	15mm 'Walcro CIRS-JS' chromium plated vandal resistant shower head	No	1,738.40
1751	15mm 'Armaturen Brauch Wassermischer Thermostatic' 702 low pressure mixer	No	15,229.12
1752	20mm FJ6.000CP 'Flushmaster Junior' urinal flush valve only	No	4,332.89
1753	20mm FM1.104 'Flushmaster Econoflush' exposed toilet flush valve complete with flush pipe	No	7,522.26
1754	32mm 'Flushmaster' FM 1.100 chromium plated toilet rear entry flush valve complete with flush pipe	No	11,481.69
<u>ELECTRIC HOT WATER GEYSERS AND HEATERS</u>			
<u>Polyethylene geyser drip trays</u>			
1755	Geyser drip tray size 760 x 760mm	No	555.95
1756	Geyser drip tray size 1200 x 600mm	No	599.53
1757	Gesyer drip tray size 1650 x 600mm	No	697.79
1758	Geyser drip tray size 1940 x 600mm	No	868.50
<u>Hot water geysers to 600kPa</u>			
1759	50 Litre Geyser for horizontal or vertical installation	No	8,525.24
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1760	100 Litre Geyser for horizontal or vertical installation	No	7,368.17
1761	150 Litre Geyser for horizontal or vertical installation	No	7,895.84
1762	200 Litre Geyser for horizontal or vertical installation	No	14,026.26
<u>Water heaters</u>			
1763	5 Litre oversink wall mounted electric water heater	No	4,541.23
1764	10 Litre oversink wall mounted electric water heater	No	8,560.07
1765	10 Litre undersink wall mounted electric water heater	No	5,467.14
<u>Solar water geysers and panels complete with painted support framework</u>			
Note :			
The solar water geysers and panels are to be mounted on galvanised sheet iron roofs with a pitch of 15°.			
Prices must include for the necessary framework to support the solar water geysers and panels as well as connecting the solar water geysers to water pipework.			
<u>The solar water geysers and panels must be installed by the specialist supplier of the geysers and panels.</u>			
1766	150 Litre geyser with solar panels and 1.8kW electrical backup element	No	43,765.92
1767	200 Litre geyser with solar panels and 1.8kW electrical backup element	No	51,809.00
1768	300 Litre geyser with solar panels and 2.4kW electrical backup element	No	73,948.85
<u>WATER SUPPLY PIPES</u>			
<u>Class 12 HDPE type IV water pipes including all straight joints and connectors laid in ground in trenches not less than 600mm deep, including excavations, backfilling, etc</u>			
1769	20mm Pipes laid in ground in trenches	m	53.65
1770	25mm Pipes laid in ground in trenches	m	61.13
1771	32mm Pipes laid in ground in trenches	m	78.25
1772	40mm Pipes laid in ground in trenches	m	107.71
Bill No. 22 PLUMBING AND DRAINAGE			
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1773	50mm Pipes laid in ground in trenches	m	141.38
1774	63mm Pipes laid in ground in trenches	m	181.26
<u>Extra over HDPE pipes for the following compression fittings</u>			
1775	20mm Fittings	No	43.67
1776	25mm Fittings	No	54.28
1777	32mm Fittings	No	77.45
1778	40mm Adaptor coupling	No	163.54
1779	50mm Adaptor coupling	No	268.10
1780	63mm Adaptor coupling	No	437.97
1781	40mm Reducing coupling	No	155.26
1782	50mm Reducing coupling	No	257.78
1783	63mm Reducing coupling	No	415.40
1784	40mm Elbow	No	194.16
1785	50mm Elbow	No	327.68
1786	63mm Elbow	No	524.39
1787	40mm Equal tee	No	277.45
1788	50mm Equal tee	No	474.97
1789	63mm Equal tee	No	784.86
<u>Class 9 uPVC water pipes and fittings including all straight joints and connectors laid in ground in trenches not less than 600mm deep, including excavations, backfilling, etc</u>			
1790	40mm Pipes laid in ground in trenches	m	98.92
1791	50mm Pipes laid in ground in trenches	m	119.34
1792	63mm Pipes laid in ground in trenches	m	140.49
Bill No. 22 PLUMBING AND DRAINAGE		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1793	90mm Pipes laid in ground in trenches	m	218.21
1794	110mm Pipes laid in ground in trenches	m	249.99
<u>Extra over class 9 uPVC pressure pipes for solvent welded pressure fittings</u>			
1795	40mm Socket adaptor coupling	No	38.27
1796	50mm Socket adaptor coupling	No	46.59
1797	63mm Socket adaptor coupling	No	58.83
1798	90mm Socket adaptor coupling	No	238.43
1799	110mm Socket adaptor coupling	No	282.53
1800	40mm Straight reducing piece	No	26.95
1801	50mm Straight reducing piece	No	34.88
1802	63mm Straight reducing piece	No	32.77
1803	90mm Straight reducing piece	No	106.13
1804	110mm Straight reducing piece	No	166.80
1805	40mm Elbow	No	47.42
1806	50mm Elbow	No	47.75
1807	63mm Elbow	No	94.34
1808	90mm Elbow	No	277.37
1809	110mm Elbow	No	353.93
1810	40mm Equal tee	No	66.30
1811	50mm Equal tee	No	76.06
1812	63mm Equal tee	No	124.24
1813	90mm Equal tee	No	368.99
1814	100mm Equal tee	No	411.27
Bill No. 22 PLUMBING AND DRAINAGE		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Class 12 uPVC water pipes and fittings including all straight joints and connectors laid in ground in trenches not less than 600mm deep, including excavations, backfilling, etc</u>		
1815	40mm Pipes laid in ground in trenches	m	111.67
1816	50mm Pipes laid in ground in trenches	m	134.25
1817	63mm Pipes laid in ground in trenches	m	175.67
1818	90mm Pipes laid in ground in trenches	m	274.37
1819	110mm Pipes laid in ground in trenches	m	312.98
	<u>Extra over class 12 uPVC pressure pipes for solvent welded pressure fittings</u>		
1820	40mm Socket adaptor coupling	No	36.08
1821	50mm Socket adaptor coupling	No	48.79
1822	63mm Socket adaptor coupling	No	59.92
1823	90mm Socket adaptor coupling	No	241.89
1824	110mm Socket adaptor coupling	No	320.78
1825	40mm Straight reducing piece	No	27.12
1826	50mm Straight reducing piece	No	35.05
1827	63mm Straight reducing piece	No	44.34
1828	90mm Straight reducing piece	No	107.58
1829	110mm Straight reducing piece	No	169.16
1830	40mm Elbow	No	45.73
1831	50mm Elbow	No	50.04
1832	63mm Elbow	No	89.96
1833	90mm Elbow	No	284.62
1834	110mm Elbow	No	438.49
	Bill No. 22 PLUMBING AND DRAINAGE		Initial here.....

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1835	40mm Equal tee	No	83.93
1836	50mm Equal tee	No	96.51
1837	63mm Equal tee	No	115.99
1838	90mm Equal tee	No	255.66
1839	100mm Equal tee	No	389.78
<u>Hard drawn thin walled class 0 copper pipes to SABS 460 including all straight joints and connectors</u>			
1840	15mm Pipe fixed or chased into walls	m	115.23
1841	22mm Pipe fixed or chased into walls	m	186.77
1842	28mm Pipe fixed or chased into walls	m	235.25
1843	35mm Pipe fixed or chased into walls	m	426.49
1844	42mm Pipe fixed or chased into walls	m	647.74
1845	54mm Pipe fixed or chased into walls	m	1,132.86
<u>Extra over class 0 copper pipes for brass capillary fittings</u>			
1846	15mm Fittings (elbows, tees, reducing tees, adaptor couplings, etc)	No	25.64
1847	22mm Fittings (elbows, tees, reducing tees, adaptor couplings, etc)	No	39.44
1848	28mm Fittings (elbows, tees, reducing tees, adaptor couplings, etc)	No	88.80
1849	35mm Elbow	No	102.00
1850	42mm Elbow	No	191.43
1851	54mm Elbow	No	305.12
1852	35mm Equal tee	No	166.00
1853	42mm Equal tee	No	310.13
1854	54mm Equal tee	No	491.26
Bill No. 22 PLUMBING AND DRAINAGE		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1855	35mm Reducing tee	No	198.25
1856	42mm Reducing tee	No	317.10
1857	54mm Reducing tee	No	530.23
1858	35mm Straight adaptor coupler	No	81.52
1859	42mm Straight adaptor coupler	No	114.01
1860	54mm Straight adaptor coupler	No	162.73
<u>Extra over class 0 copper pipes for brass compression fittings (conex)</u>			
1861	15mm Fittings (elbows, tees, reducing tees, adaptor couplings, etc)	No	83.73
1862	22mm Fittings (elbows, tees, reducing tees, adaptor couplings, etc)	No	133.59
1863	28mm Fittings (elbows, tees, reducing tees, adaptor couplings, etc)	No	315.04
1864	35mm Elbow	No	437.22
1865	42mm Elbow	No	455.65
1866	54mm Elbow	No	1,055.93
1867	35mm Equal tee	No	510.35
1868	42mm Equal tee	No	642.33
1869	54mm Equal tee	No	1,090.30
1870	35mm Reducing tee	No	575.39
1871	42mm Reducing tee	No	738.89
1872	54mm Reducing tee	No	1,251.50
1873	35mm Straight adaptor coupler	No	305.60
1874	42mm Straight adaptor coupler	No	423.72
1875	54mm Straight adaptor coupler	No	774.90
Bill No. 22 PLUMBING AND DRAINAGE		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Galvanised mild steel medium grade pipes including all straight joints and connectors</u>		
1876	15mm Pipe fixed or chased into walls	m	114.91
1877	20mm Pipe fixed or chased into walls	m	142.96
1878	25mm Pipe fixed or chased into walls	m	179.47
1879	32mm Pipe fixed or chased into walls	m	252.34
1880	40mm Pipe fixed or chased into walls	m	239.21
1881	60mm Pipe fixed or chased into walls	m	360.85
1882	65mm Pipe fixed or chased into walls	m	540.67
1883	80mm Pipe fixed or chased into walls	m	565.51
1884	100mm Pipe fixed or chased into walls	m	823.56
	<u>Extra over galvanised steel pipes for steel fittings</u>		
1885	15mm Fittings (elbows, tees, reducing tees, adaptor couplings, etc)	No	22.70
1886	20mm Fittings (elbows, tees, reducing tees, adaptor couplings, etc)	No	33.44
1887	25mm Fittings (elbows, tees, reducing tees, adaptor couplings, etc)	No	40.64
1888	32mm Fittings (elbows, tees, reducing tees, adaptor couplings, etc)	No	59.25
1889	40mm Elbow	No	62.48
1890	50mm Elbow	No	122.58
1891	65mm Elbow	No	337.51
1892	80mm Elbow	No	473.43
1893	100mm Elbow	No	922.23
1894	40mm Equal tee	No	78.10
1895	50mm Equal tee	No	135.90
1896	65mm Equal tee	No	499.76
	Bill No. 22 PLUMBING AND DRAINAGE		
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1897	80mm Equal tee	No	615.84
1898	100mm Equal tee	No	1,118.22
1899	40mm Reducing tee	No	185.29
1900	50mm Reducing tee	No	276.15
1901	65mm Reducing tee	No	528.89
1902	80mm Reducing tee	No	787.29
1903	100mm Reducing tee	No	1,423.45
1904	40mm Reducing tee	No	234.48
1905	80 x 25mm Multi-step reducer	No	259.52
1906	100 x 80mm Reducer	No	464.30
1907	80 x 40mm Reducing bush	No	242.29
1908	80 x 50mm Reducing bush	No	242.88
1909	80 x 65mm Reducing bush	No	246.69
1910	100 x 65mm Reducing bush	No	967.36
1911	100mm Non-return valve	No	6,399.54
1912	80mm Long radius flanged bend	No	2,624.26
1913	100mm Long radius flanged bend	No	2,370.82
1914	100mm Flanged puddle piece	No	2,507.44
1915	100mm Flanged distance piece	No	2,356.64
1916	100mm 'Viking Johnson' flanged adaptor coupling	No	2,102.02
	<u>PEX/AL/PEX Multilayer polygon pipes or other equal and approved</u>		
1917	16mm Pipe fixed or chased into walls	m	77.39
1918	20mm Pipe fixed or chased into walls	m	118.61
	Bill No. 22 PLUMBING AND DRAINAGE		
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1919	25mm Pipe fixed or chased into walls	m	144.42
1920	32mm Pipe fixed or chased into walls	m	200.34
<u>Extra over Pex/Al/Pex pipes for press-type with crimping brass fittings</u>			
1921	16mm Fittings	No	97.42
1922	20mm Fittings	No	149.50
1923	25mm Fitting	No	195.78
1924	32mm Elbow	No	305.18
1925	32mm Straight Union	No	181.05
1926	32mm Straight reducer	No	173.21
1927	32mm Tee	No	388.38
1928	32mm Reducing tee	No	319.49
<u>FIRE APPLIANCES</u>			
1929	'Everyway' hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	10,719.14
1930	25mm 'Saunders' type A diaphragm isolating valve	No	1,948.83
1931	4.5Kg dry chemical powder fire extinguisher fixed to and including 22 x 300 x 400mm hardwood backing board chamfered all round and plugged to walls, including painting with one coat primer, one coat undercoat and two coats gloss enamel paint	No	1,745.04
1932	9kg Carbon dioxide fire extinguisher fixed to and including 22 x 300 x 400mm hardwood backing board chamfered all round and plugged to walls, including painting with one coat primer, one coat undercoat and two coats gloss enamel paint	No	2,040.04
1933	80 x 65mm Brass double booster pump connection with caps and chains	No	5,273.24
1934	80 x 65mm Brass right angle hydrant valve with cap and chain	No	4,143.44
1935	100mm Diameter 1500 kPa pressure gauge syphon and stopcock including tapped hole in steel pipe	No	2,224.83
<p>Bill No. 22 PLUMBING AND DRAINAGE</p> <p style="text-align: right;">Initial here.....</p>			

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
<u>SUNDRIES TO WATER SUPPLIES</u>			
1936	Concrete class 15MPa in thrust blocks around bends, tees, etc. including all necessary additional excavation, casing, etc.	m3	3,490.90
1937	110mm uPVC pipe 1500mm long filled with class 20MPa concrete in stand pipe pedestal with bottom 600mm set into ground, including all excavation, etc	No	410.48
1938	Unreinforced concrete hydrant pedestal 900mm high cast around vertical pipe with bottom 300mm below ground, 300 x 300mm square at base and tapering to octagonal shaped top 200 x 200mm overall including necessary excavation, formwork and two coats of paint to exposed surfaces	No	1,567.46
1939	450 x 450mm Cast iron stopcock box including brick chamber below not exceeding 750mm deep internally complete with cast iron meter box type 10A size 300 x 200 x 150mm high overall	No	2,495.26
1940	Valve box chamber size 600 x 900mm and 900mm deep internally formed of 100mm thick concrete class 25MPa base and half brick walls, single seal light duty rectangular cover and frame 600 x 450mm, including all excavation, concrete, casing, etc	No	3,607.46
<u>LAGGING TO HOT WATER PIPES</u>			
<u>Fibreglass snap-on canvas covered sections</u>			
1941	Insulation 20mm thick to 15mm pipes and fittings	m	116.96
1942	Insulation 20mm thick to 22mm pipes and fittings	m	139.59
1943	Insulation 20mm thick to 28mm pipes and fittings	m	171.68
<u>INTERNAL SOIL, WASTE AND VENT PIPING</u>			
<u>uPVC soil, waste and vent pipes including all straight joints and connectors</u>			
1944	40mm Pipe fixed or chased into walls	m	37.21
1945	50mm Pipe fixed or chased into walls	m	54.30
1946	110mm Pipe fixed	m	125.14
1947	40mm Pipes laid in ground under solid floors	m	38.04
1948	50mm Pipes laid in ground under solid floors	m	56.12
1949	110mm Pipes laid in ground under solid floors	m	125.39
<p>Bill No. 22 PLUMBING AND DRAINAGE</p> <p style="text-align: right;">Initial here.....</p>			

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Extra over uPVC pipes for fittings</u>		
1950	40 x 40mm BSP adaptor	No	37.27
1951	50 x 50mm BSP adaptor	No	41.44
1952	50mm Reducer	No	14.87
1953	110mm Eccentric reducer	No	131.73
1954	40mm Bend	No	12.82
1955	50mm Bend	No	20.14
1956	110mm Bend	No	120.20
1957	40mm Access bend	No	16.17
1958	50mm Access bend	No	21.13
1959	110mm Access bend	No	183.09
1960	110mm Access bend with vent horn	No	210.28
1961	40mm Plain junction	No	23.22
1962	50mm Plain junction	No	27.34
1963	110mm Plain junction	No	192.13
1964	50mm Access junction	No	31.10
1965	110mm Access junction	No	331.67
1966	110mm Plain reducing junction	No	319.58
1967	110mm Access reducing junction	No	503.98
1968	110mm Double plain reducing junction	No	965.54
1969	110mm Pan connector	No	114.22
1970	110mm Bent pan connector	No	183.56
1971	110mm Access stopend	No	203.65
	Bill No. 22 PLUMBING AND DRAINAGE		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1972	50mm Air vent cowl	No	24.99
1973	110mm Air vent cowl	No	76.15
1974	50mm Two-way vent valve	No	126.67
1975	110mm Two-way vent valve	No	215.61
	<u>DRAINAGE</u>		
	<u>SEWAGE PIPES AND FITTINGS</u>		
	<u>Underground twin-wall uPVC structured wall pipes laid in ground, including excavations, backfilling, etc and all straight joints between pipes</u>		
1976	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	147.07
1977	110mm Pipes laid in and including trenches not exceeding 1m deep	m	194.38
1978	110mm Pipes laid in and including trenches exceeding 2m and not exceeding 3m deep	m	241.70
1979	110mm Pipes laid in and including trenches exceeding 2m and not exceeding 3m deep	m	289.02
1980	160mm Pipes laid in and including trenches not exceeding 1m deep	m	268.58
1981	160mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	334.71
1982	160mm Pipes laid in and including trenches exceeding 2m and not exceeding 3m deep	m	384.20
	<u>Extra over for the following fittings to underground twin-wall pipes</u>		
1983	110mm Stop end	No	60.96
1984	160mm Stop end	No	157.07
1985	110mm Rodding eye	No	176.23
1986	160mm Taper pipe	No	146.25
1987	110mm Inspection pipe	No	378.57
1988	110mm Plain bend	No	224.11
1989	160mm Plain bend	No	516.22
	Bill No. 22 PLUMBING AND DRAINAGE		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
1990	110mm Long radius bend	No	717.65
1991	160mm Long radius bend	No	1,013.21
1992	110mm Plain junction	No	159.48
1993	160mm Plain junction	No	972.61
1994	110mm Access junction	No	322.02
1995	160mm Access junction	No	604.96
1996	160mm Reducing plain junction	No	381.34
1997	160mm Reducing access junction	No	548.91
1998	110mm Overflow gulley head	No	565.68
1999	110mm <u>Cast iron</u> 'ABC" cleaning eye	No	500.71
<u>UPVC Gulleys with gulley head and grating encased in concrete</u>			
2000	110mm Gulley P-trap not exceeding 1m deep	No	278.89
<u>Inspection chambers</u>			
Note:			
1	All inspection chambers are to be built in accordance with SABS 1200.		
2	Inspection chambers are to be constructed of one brick walls on a 150mm thick concrete class 25mPa base projecting 150mm all round with a 150mm thick reinforced concrete class 25mPa cover slab reinforced with Y10 bars at 200mm centres in both directions and with opening for manhole cover and finished smooth on all exposed faces. Benching is to be of 1:2 cement mortar with glazed earthenware channels. Cast iron step irons are to be provided at 300mm centres.		
2001	Excavate for and build inspection chamber size 900mm x 600mm internally and not exceeding 500mm deep to invert	No	7,266.52
2002	Excavate for and build inspection chamber size 900mm x 600mm internally and exceeding 500mm and not exceeding 1000mm deep to invert	No	10,038.80
2003	Excavate for and build inspection chamber size 900mm x 600mm internally and exceeding 1000mm and not exceeding 1500mm deep to invert	No	12,372.00
Bill No. 22 PLUMBING AND DRAINAGE			
Initial here.....			

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
2004	Excavate for and build inspection chamber size 900mm x 600mm internally and exceeding 1500mm and not exceeding 2000mm deep to invert	No	14,990.64
2005	Excavate for and build inspection chamber size 900mm x 900mm internally and exceeding 2000mm and not exceeding 2500mm deep to invert	No	17,022.37
2006	Excavate for and build inspection chamber size 900mm x 900mm internally and exceeding 2500mm and not exceeding 3000mm deep to invert	No	19,298.28
<u>Cast iron gratings, covers, etc</u>			
2007	450 x 600mm Single seal manhole cover and frame type 9C (45kg)	No	3,788.24
2008	450 x 600mm Single seal manhole cover and frame type 9D (68kg)	No	5,260.26
2009	600 x 900mm Single seal manhole cover and frame type 9E (93kg)	No	9,612.11
2010	900 x 900mm Single seal manhole cover and frame type (171kg)	No	16,104.75
2011	450 x 600mm Double seal manhole cover and frame type 8A (72kg)	No	5,793.53
2012	600 x 600mm Double seal manhole cover and frame type 8B (124kg)	No	9,443.08
2013	600 x 760mm Double seal manhole cover and frame type 10B (154kg)	No	9,732.42
2014	550mm Diameter circular manhole cover and frame type 4 (82kg)	No	5,630.63
2015	550mm Diameter circular manhole cover and frame type 2B (183kg)	No	12,640.41
2016	550mm Diameter circular manhole cover and frame type 2A (190kg)	No	9,462.19
2017	650mm Diameter circular manhole cover and frame type 1B (135kg)	No	11,470.20
2018	650mm Diameter circular manhole cover and frame type 1A (204kg)	No	17,823.05
Bill No. 22 PLUMBING AND DRAINAGE		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Septic tanks</u>		
	Note :		
	1 Septic tanks are to be constructed of one brick walls of 7MPa bricks all round. Brickwork internally is to be rendered smooth in 15mm 3:1 cement plaster.		
	2 All concrete is to be 30MPa. The base slab is to be 150mm thick projecting 100mm all round from the external wall face. The top slab is to be 150mm thick. The base slab is to be reinforced with one layer of mesh No 393 and the top slab is to be suitably reinforced with Y10 bars at 150mm centres in both directions to the approval of the Department of Works.		
	3 Cast iron manhole steps are to be built into the brick walls at 300mm centres at the manhole cover. Access manholes on top of the septic tank are to be constructed of one brick walls plastered smooth internally with a mass concrete concrete surround for and including 900 x 600mm cast iron manhole cover and frame type 9E built into brickwork.		
	4 The incoming pipe is to be 110mm uPVC and the outgoing pipe is to be 110mm uPVC. The incoming and outgoing pipework is to be built through the brick walls and is to include a junction and short length of pipe vertically at both points.		
	5 Prices are to include all excavations, risk of collapse and spreading and levelling all excavated material not used for backfilling.		
2019	Excavate for and build septic tank size 1760 x 1560mm internally and 2220mm deep to invert with internal one brick division wall with five 110mm uPVC pipes 300mm long built through wall, five 110mm uPVC plain junctions each with a 450mm length of 110mm uPVC pipe and two 600 x 900mm access manholes in top slab	No	56,634.98
2020	Excavate for and build septic tank size 3110 x 1960mm internally and 2220mm deep to invert with internal one brick division wall with five 110mm uPVC pipes 300mm long built through wall, five 110mm uPVC plain junctions each with a 450mm length of 110mm uPVC pipe and two 600 x 900mm access manholes in top slab	No	79,492.65
2021	Excavate for and build septic tank size 6110 x 2960mm internally and 2220mm deep to invert with internal one brick division wall with five 110mm uPVC pipes 300mm long built through wall, five 110mm uPVC plain junctions each with a 450mm length of 110mm uPVC pipe and two 600 x 900mm access manholes in top slab	No	147,357.25
	<u>French drains</u>		
2022	Excavate and build french drain soakaway 800mm wide and 1900mm deep comprising bottom layer filled with clean river stone filling material (20 - 50mm stone) for a depth of 1m wrapped around with and including 'Bidim' U14 geotextile filter fabric, 110mm diameter slotted uPVC drainage pipe and backfill with coarse sand or soil backfill, including all excavations, backfilling as specified and spreading and levelling surplus excavated materials	m	1,800.24
	Bill No. 22 PLUMBING AND DRAINAGE		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Sundries</u>		
2023	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock (measured 300mm wider than the pipe size)	m3	769.59
2024	Cut into side of existing inspection chamber for and connect new 110mm or 160mm pipe, including altering benching as required and make good	No	917.50
2025	350 x 350 x 150mm Precast concrete inspection eye marker slab set in ground	No	434.16
	END OF BILL		
	Bill No. 22 PLUMBING AND DRAINAGE		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>BILL No 21</u>		
	<u>GLAZING</u>		
	<u>GLAZING TO STEEL WITH PUTTY</u>		
	<u>4mm Clear float glass</u>		
2026	Panes not exceeding 0.1m2	m2	600.74
2027	Panes exceeding 0.1m2 and not exceeding 0.5m2	m2	602.68
2028	Panes exceeding 0.5m2 and not exceeding 2m2	m2	652.82
	<u>4mm Common obscure glass</u>		
2029	Panes not exceeding 0.1m2	m2	684.92
2030	Panes exceeding 0.1m2 and not exceeding 0.5m2	m2	687.13
2031	Panes exceeding 0.5m2 and not exceeding 2m2	m2	738.21
	<u>4mm Clear acrylic sheeting</u>		
2032	Panes not exceeding 0.1m2	m2	1,534.08
2033	Panes exceeding 0.1m2 and not exceeding 0.5m2	m2	1,496.87
	<u>GLAZING TO WOOD OR STEEL WITH BEADS (BEADS ELSEWHERE)</u>		
	<u>4mm Clear float glass</u>		
2034	Panes not exceeding 0.1m2	m2	579.98
2035	Panes exceeding 0.1m2 and not exceeding 0.5m2	m2	602.82
2036	Panes exceeding 0.5m2 and not exceeding 2m2	m2	626.46
	<u>4mm Common obscure glass</u>		
2037	Panes not exceeding 0.1m2	m2	666.06
2038	Panes exceeding 0.1m2 and not exceeding 0.5m2	m2	694.98
2039	Panes exceeding 0.5m2 and not exceeding 2m2	m2	722.22
	Bill No. 23 GLAZING		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>6.38mm Clear normal strength intruderprufe laminated safety glass</u>		
2040	Panes not exceeding 0.1m2	m2	1,519.99
2041	Panes exceeding 0.1m2 and not exceeding 0.5m2	m2	1,590.02
2042	Panes exceeding 0.5m2 and not exceeding 2m2	m2	1,652.81
	<u>6.76mm HPR Clear intruderprufe laminated safety glass</u>		
2043	Panes not exceeding 0.1m2	m2	2,283.79
2044	Panes exceeding 0.1m2 and not exceeding 0.5m2	m2	2,282.18
2045	Panes exceeding 0.5m2 and not exceeding 2m2	m2	2,508.17
	<u>4mm Clear acrylic sheeting</u>		
2046	Panes not exceeding 0.1m2	m2	1,347.75
2047	Panes exceeding 0.1m2 and not exceeding 0.5m2	m2	1,343.19
	<u>MIRRORS, ETC</u>		
	<u>4mm Silvered float glass copper backed mirrors with polished edges fixed to walls with double sided adhesive tape</u>		
2048	Mirror size 450 x 600mm high	No	786.75
2049	Mirror size 600 x 600mm high	No	1,004.51
2050	Mirror size 600 x 900mm high	No	1,454.30
	<u>6mm Silvered float glass copper backed mirrors with bevelled and polished edges four times holed for and screwed to walls with chromium plated dome head capped mirror screws with rubber grommets</u>		
2051	Mirror size 450 x 600mm high	No	867.63
2052	Mirror size 600 x 600mm high	No	1,092.82
2053	Mirror size 600 x 900mm high	No	1,610.08
	END OF BILL		
	Bill No. 23 GLAZING		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<p><u>BILL No 22</u></p> <p><u>PAINTWORK</u></p> <p><u>NOTES :</u></p> <p>1 All paints are to be applied in strict accordance with the manufacturer's instructions. Painting is to be done by brush, roller or spraying as may be recommended by the paint manufacturer.</p> <p>2 No paint is to be applied during cold weather conditions and all paint must be stored and protected from frost or other cold weather conditions.</p> <p>3 Prices must allow for painting in different colours and for cutting to line around fittings, windows, doors, etc.</p> <p>4 Cellulose fillers such as 'Polyfilla' and 'Aurora' are NOT acceptable. The stopping of surfaces to be painted is to be done with 'Polycell Mendall 90' or 'Pera Universal Repairing Compound' mixed with 30% marble dust.</p> <p>5 Prices for paintwork must include for the protection of other finished work, including masking or covering all finished paintwork, as well as finished joinery, tilings, floor coverings, etc during painting operations.</p> <p>6 All door handles, locks and other ironmongery, pelmets, electrical switch and socket outlet cover plates, etc are to be removed before painting and are to be re-fitted after completion of painting. All paint spots, stains, etc are to be cleaned off all floors, walls, glass, doors, frames, fittings, etc after completion of the paintwork.</p> <p>7 Prices must include for the preparation and stopping of all surfaces as necessary.</p> <p><u>PAINTWORK TO NEW SURFACES</u></p> <p><u>ON NEW PLASTERED OR SCREEDED SURFACES</u></p> <p><u>One coat alkali-resistant plaster primer and two coats exterior quality PVA emulsion paint</u></p> <p>2054 On internal smooth plastered walls and columns m2 97.45</p> <p>2055 On internal smooth plastered ceilings and beams m2 103.79</p> <p>2056 On off-shutter concrete walls and columns m2 97.99</p> <p>2057 On off-shutter concrete ceilings and beams m2 104.33</p> <p><u>One coat alkali-resistant plaster primer and two coats Acrylic PVA paint</u></p> <p>2058 On internal smooth plastered walls and columns m2 98.44</p> <p>Bill No. 24 PAINTWORK</p> <p style="text-align: right;">Initial here.....</p>		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
2059	On internal smooth plastered ceilings and beams	m2	103.79
2060	On external smooth plastered walls	m2	98.44
2061	On external smooth plastered ceilings and beams	m2	103.79
2062	On off-shutter concrete walls and columns	m2	101.49
2063	On off-shutter concrete ceilings and beams	m2	104.33
	<u>One coat alkali resistant plaster primer, one coat undercoat and two coats eggshell enamel paint</u>		
2064	On internal smooth plastered walls and columns	m2	144.83
2065	On internal smooth plastered ceilings and beams	m2	158.98
	<u>One coat alkali resistant plaster primer, one coat undercoat and two coats gloss enamel paint</u>		
2066	On internal smooth plastered walls and columns	m2	126.67
2067	On internal smooth plastered ceilings and beams	m2	139.66
	<u>One coat alkali resistant plaster primer, one coat undercoat and two coats polyurethane velvet enamel paint</u>		
2068	On internal smooth plastered walls and columns	m2	164.00
2069	On internal smooth plastered ceilings and beams	m2	179.11
	<u>One coat sealer and two coats marble plaster textured paint coating</u>		
2070	On internal smooth plastered walls and columns	m2	167.09
2071	On internal smooth plastered ceilings and beams	m2	175.01
2072	On external smooth plastered walls	m2	167.09
2073	On external smooth plastered ceilings and beams	m2	175.01
2074	On off-shutter concrete walls and columns	m2	169.23
2075	On off-shutter concrete ceilings and beams	m2	177.59
	Bill No. 24 PAINTWORK		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Etch screeded surface with 10% solution of hydrochloric acid and water and two full coats stoep enamel</u>		
2076	On screeded floors and skirtings	m2	102.54
	<u>ON FIBRE-CEMENT</u>		
	<u>One coat primer or sealer, one under coat and two coats Acrylic PVA paint</u>		
2077	On fascias and eaves soffit linings	m2	133.43
2078	On ceilings, including cornices and cover strips	m2	146.48
2079	On window cills	m2	133.43
2080	On gutters and downpipes not exceeding 300mm girth	m	43.69
	<u>ON SOFTBOARD, ETC</u>		
	<u>One coat sealer and two coats exterior quality PVA emulison paint</u>		
2081	On ceilings, including cornices and cover strips	m2	114.69
	<u>ON PLASTER BOARD</u>		
	<u>One coat primer and two coats exterior quality PVA emulsion paint</u>		
2082	On ceilings, including cornices and cover strips	m2	100.79
	<u>One coat sealer and two coats marble plaster textured paint coating</u>		
2083	On ceilings, including cornices and cover strips	m2	152.35
	<u>One coat sealer and two coats Acrylic PVA paint</u>		
2084	On drywall partitions	m2	98.93
	<u>One coat sealer and two coats polyurethane velvet enamel paint</u>		
2085	On drywall partitions	m2	120.87
	<u>ON PVC</u>		
	<u>One coat under coat and two coats Acrylic PVA paint</u>		
2086	On PVC pipes not exceeding 300mm girth	m	32.96
	Bill No. 24 PAINTWORK		
			Initial here.....

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>ON METAL</u>		
	<u>One coat gloss enamel paint</u>		
2087	On roof members	m2	64.27
	<u>Touch up factory primer and one coat undercoat and two coats gloss enamel paint</u>		
2088	On door frames	m2	126.48
2089	On windows with glazing bars (both sides measured flat)	m2	127.01
2090	On windows with burglar bars (both sides measured flat)	m2	133.37
2091	On flush panel doors and frames (both sides measured flat)	m2	126.48
2092	On transformer room doors and frames (both sides measured flat)	m2	126.48
2093	On strong room and record room doors and frames (both sides measured flat)	m2	126.48
2094	On exposed truss members, purlins, etc	m2	126.48
2095	On rails, bars, pipes, etc. not exceeding 300mm girth.	m	39.72
	<u>One coat primer, one coat undercoat and two coats gloss enamel paint</u>		
2096	On gates, grilles, burglar screens, balustrades, etc. (both sides measured flat)	m2	134.95
2097	On rails, bars, pipes, etc. not exceeding 300mm girth	m	42.11
	<u>Wash with metal conditioner and two coats Acrylic PVA paint</u>		
2098	On underside of profiled roof sheeting and ceilings (measured on flat to ceiling area)	m2	138.16
	<u>Wash with metal conditioner and two coats Acrylic Roof paint</u>		
2099	On profiled roof sheeting and flashings (measured on flat to roof area)	m2	110.33
	<u>Wash with metal conditioner, one coat self-etching metal primer and two coats gloss enamel paint</u>		
2100	On eaves gutters and downpipes	m2	127.01
2101	On pipes not exceeding 100mm diameter	m	22.19
	Bill No. 24 PAINTWORK		
	Initial here.....		

Item No		Unit	Rate
	<p><u>Wash with metal conditioner, one coat self-etching metal primer and two coats approved heat resistant reflecting paint applied in strict accordance with the manufacturer's instructions</u></p>		
2102	On profiled roof sheeting and flashings (measured on flat)	m2	159.65
	<p><u>ON METAL (AT COASTAL AREAS ONLY)</u></p>		
	<p><i>Note:</i></p> <p><i>No grid blasting will be allowed on site. All weld edges, corners, etc are to be stripe coated with the intermediate coat between each application. Equipmnet must be available on site to check the film thicknesses.</i></p>		
	<p><u>Clean and prepare steel as defined in ISO 8501-1 : 1988, paint system for structural mild steel / new steel to withstand climatic conditions of C5 marine as per international environmental specifications of ISO 12944 and Generic Specifications following as: prepare and paint zinc rich primer of 75 to 100 micron dry coat thickness applied by airless / conventional spray / roller, epoxy intermediated coat of 100 to 150 micron dry coat thickness applied by airless / conventional spray / roller and polyurethane top coat of 50 to 75 micron dry coat thickness applied by airless / conventional spray / roller (colour light grey) with a full 5 year guarantee to be submitted by the supplier for all paintwork, including making good damaged paintwork after erection of the steelwork strictly in accordance with the manufacturer's specification and to the satisfaction of the Department of Works</u></p>		
2103	On exposed truss members, purlins, etc	m2	191.56
2104	On gates, grilles, burglar screens, balustrades, etc. (both sides measured flat)	m2	191.56
2105	On rails, bars, pipes, etc. not exceeding 300mm girth.	m	62.06
	<p><u>ON WOOD</u></p>		
	<p><u>One coat wood primer</u></p>		
2106	On backs of skirtings, frames, cornices, rails, etc not exceeding 300mm girth	m	32.97
	<p><u>One coat oil based stain and two coats clear matt polyurethane varnish</u></p>		
2107	On door frames	m2	117.07
2108	On flush doors	m2	117.07
2109	On panelled and moulded doors	m2	117.07
2110	On windows, glazed doors, etc (both sides measured flat)	m2	117.07
	<p>Bill No. 24 PAINTWORK</p>		
	<p>Initial here.....</p>		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
2111	On joinery fittings, shelving, slatted seating, etc	m2	117.07
2112	On skirtings, frames, rails, etc not exceeding 300 mm girth	m	38.73
<u>One coat oil based stain and two coats clear gloss polyurethane varnish</u>			
2113	On door frames	m2	116.49
2114	On flush doors	m2	116.68
2115	On panelled and moulded doors	m2	116.68
2116	On windows, glazed doors, etc (both sides measured flat)	m2	116.68
2117	On joinery fittings, shelving, slatted seating, etc	m2	116.68
2118	On skirtings, frames, rails, etc not exceeding 300 mm girth	m	38.69
<u>One coat oil based stain and two coats clear gloss exterior quality UV protected polyurethane varnish</u>			
2119	On door frames	m2	117.07
2120	On flush doors	m2	117.07
2121	On panelled and moulded doors	m2	117.07
2122	On windows, glazed doors, etc (both sides measured flat)	m2	117.07
2123	On skirtings, frames, rails, etc not exceeding 300 mm girth	m	38.73
<u>One coat wood primer, one coat undercoat and two coats matt enamel paint</u>			
2124	On door frames	m2	149.89
2125	On flush doors	m2	149.89
2126	On panelled and moulded doors	m2	149.89
2127	On windows, glazed doors, etc (both sides measured flat)	m2	149.89
2128	On joinery fittings, shelving, slatted seating, etc	m2	149.89
2129	On skirtings, frames, rails, etc not exceeding 300 mm girth	m	50.31
Bill No. 24 PAINTWORK		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
<u>One coat wood primer, one coat undercoat and two coats gloss enamel paint</u>			
2130	On door frames	m2	154.74
2131	On flush doors	m2	154.74
2132	On panelled and moulded doors	m2	154.74
2133	On windows, glazed doors, etc (both sides measured flat)	m2	154.74
2134	On joinery fittings, shelving, slatted seating, etc	m2	154.74
2135	On exposed trusses, rafters, beams, purlins, etc	m2	154.74
2136	On skirtings, frames, rails, etc not exceeding 300 mm girth	m	51.81
<u>One coat wood primer, one coat undercoat and two coats polyurethane velvet enamel paint</u>			
2137	On door frames	m2	163.29
2138	On flush doors	m2	163.29
2139	On panelled and moulded doors	m2	163.29
2140	On windows, glazed doors, etc (both sides measured flat)	m2	163.29
2141	On joinery fittings, shelving, slatted seating, etc	m2	163.29
2142	On exposed trusses, rafters, beams, purlins, etc	m2	163.29
2143	On skirtings, frames, rails, etc not exceeding 300 mm girth	m	54.87
END OF BILL			
Bill No. 24 PAINTWORK		Initial here.....	

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>BILL No 23</u>		
	<u>EXTERNAL WORKS</u>		
	<u>SITE CLEARANCE ETC</u>		
	<u>Site clearance</u>		
2144	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	30.41
	<u>Cutting down and removing, grubbing up roots and filling in holes</u>		
2145	Hedge not exceeding 1m high	m	272.23
2146	Hedge exceeding 1m high	m	433.03
2147	Tree exceeding 200mm and not exceeding 500mm girth	No	986.93
2148	Tree exceeding 500mm and not exceeding 1000mm girth	No	1,693.85
2149	Tree exceeding 1000mm and not exceeding 2000mm girth	No	3,359.40
	<u>Trimming and removal of tree branches</u>		
2150	Branch not exceeding 500mm girth	No	186.15
2151	Branch exceeding 500mm girth	No	238.07
	<u>LANDSCAPING</u>		
	<u>Topsoil, compost, etc</u>		
2152	Topsoil obtained from Stock piles on site in plant beds, grassed areas and holes for trees, shrubs, etc	m3	196.05
2153	Topsoil supplied by the contractor in plant beds, grassed areas and holes for trees, shrubs, etc	m3	607.70
2154	Compost in plant beds, holes for trees, shrubs, etc	m3	639.21
	<u>Grassing, ground covers, etc</u>		
2155	"L.M. Lawn" roots in rows with a minium of 44 roots per m ²	m2	165.54
2156	"Kikuyu" roots in rows with a minimu of 44 roots per m ²	m2	95.10
	Bill No. 25 EXTERNAL WORKS		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Pebble covering</u>		
2157	Covering of pebbles varying from 20mm to 50mm diameter in 50mm layers	m2	139.48
	<u>ROADWORKS, PAVINGS, WALKWAYS, ETC</u>		
	<u>Open face excavation</u>		
2158	Excavate over site between buildings, etc. to reduce levels and deposit excavated material in prescribed stock piles on site	m3	108.08
2159	Extra over all excavations in earth for excavations in soft rock	m3	700.02
	<u>Extra over all excavations for</u>		
2160	Spreading and levelling surplus material from the excavations and/or stock piles on site as directed	m3	85.14
2161	Carting away surplus material from the excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	79.64
	<u>Road bed preparation</u>		
2162	Compaction of ground surface under pavings 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	43.81
	<u>Earth filling supplied by the contractor</u>		
2163	Selected sub-grade course of G9 material under roads, pavings, etc of approved granular material compacted to 90% Mod AASHTO density	m3	268.97
2164	Selected sub grade course of G7 material under roads, pavings, etc of approved granular material compacted to 93% Mod AASHTO density	m3	297.93
2165	Sub-base course of G5 material under roads, pavings, etc of approved granular material compacted to 95% Mod AASHTO density	m3	555.59
2166	Base course of G3 material under roads, pavings, etc of approved granular material compacted to 98% Mod AASHTO density	m3	613.78
	<u>Soil poisoning</u>		
2167	Soil insecticide under roads, paving, etc	m2	21.06
2168	Weed killer under roads, pavings, etc	m2	21.83
	Bill No. 25 EXTERNAL WORKS		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Prescribed density tests on filling</u>		
2169	"Natural California Bearing Ratio" test if required	No	854.23
2170	Field density test including optimum moisture content reading (four readings per test)	No	467.09
2171	Soil indicator test	No	590.41
	<u>Concrete edge beams</u>		
2172	25MPa/19mm Concrete in ground beam size 200 x 400mm set in ground, including excavation 300mm deep and spreading and levelling excavated materials	m	364.22
	<u>Rectangular paving stones 25MPa laid on and including 20mm clean sand bed to falls and currents, including all cutting and waste</u>		
2173	55mm Plain rectangular paving stones in paving to roads, pavings, etc	m2	463.48
2174	55mm Coloured rectangular paving stones in paving to roads, pavings, etc	m2	539.63
	<u>Interlocking paving road stones type SF 35MPa laid on and including 20mm clean sand bed to falls and currents, including all cutting and waste</u>		
2175	60mm Interlocking road stones in paving to roads, pavings, etc	m2	520.17
2176	80mm Interlocking road stones in paving to roads, pavings, etc	m2	727.61
	<u>Precast concrete garden kerbs with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint including excavation, backfilling, etc.</u>		
2177	Bull nosed garden kerb size 50 x 250mm high	m	197.72
2178	Bull nosed garden kerb size 50 x 250mm high not exceeding 4m radius	m	210.99
	<u>Precast concrete road kerbs and channels finished smooth on exposed surfaces laid on and including 400 x 100mm unreinforced mass concrete continuous bedding with haunchings behind each joint including excavation, backfilling, etc</u>		
2179	Barrier road kerb size 300 x 150mm high	m	284.09
2180	Barrier road kerb size 300 x 150mm high not exceeding 4m radius	m	300.46
2181	Mountable road kerb size 300 x 150mm high	m	336.60
2182	Mountable road kerb size 300 x 150mm high not exceeding 4m radius	m	353.55
2183	Stormwater channel size 300 x 150mm high with segmental channel formed therein	m	573.00
	Bill No. 25 EXTERNAL WORKS		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>Paintwork</u>		
2184	One coat road marking paint on interlocking paving stines in lines 100mm wide	m	23.60
	<u>Slab paving of 400 x 400 x 40mm precast concrete slabs with a non-slip finish</u>		
2185	Paving laid on and including 25mm thick clean sand bed to falls	m2	668.53
2186	Paving laid on and including 20mm thick cement mortar bed to falls with 10mm joints flush pointed in cement mortar	m2	739.73
	<u>Slab paving of 400 x 400 x 40mm precast concrete slabs with exposed aggregate finish</u>		
2187	Paving laid on and including 25mm thick clean sand bed to falls	m2	704.47
2188	Paving laid on and including 20mm thick cement mortar bed to falls with 10mm joints flush pointed in cement mortar	m2	765.08
	<u>RETAINING STRUCTURES</u>		
	<u>Retaining structure with stepped face and curves as required to suit slopes laid with horizontal bed joints to varying slopes including backfilling with earth obtained from the excavations and filling the blocks with garden soil lightly tamped as the work proceeds</u>		
2189	Retaining structures to embankments, etc formed of Terraforce type L3 interlocking planter blocks size 340 x 425 x 225mm high	m2	1,005.39
2190	Retaining structures to embankments, etc formed of Terraforce type S interlocking planter blocks size 400 x 500 x 250mm high	m2	1,115.86
2191	Retaining structures to embankments, etc formed of Loffelstein type L300 interlocking planter blocks size 300 x 400 x 170mm high	m2	1,919.67
2192	Retaining structures to embankments, etc formed of Loffelstein type L500 interlocking planter blocks size 500 x 450 x 170mm high	m2	2,649.74
	Bill No. 25 EXTERNAL WORKS		
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>FENCING</u>		
	<u>Removal of existing fencing</u>		
2193	Remove existing fence not exceeding 1200mm high complete with all droppers, stays, posts, gates, etc	m	51.60
2194	Remove existing fence exceeding 1200mm and not exceeding 2400mm high complete with all droppers, stays, posts, gates, etc	m	139.00
	<u>Concrete edge beams</u>		
2195	20MPa Concrete in edge beam below security fencing size 100 x 200mm high, including all necessary excavation, casing, backfilling, etc	m	245.65
	<u>Domestic fencing including two coats aluminium paint on metal stays, frames, etc</u>		
2196	Domestic fencing 1.2m high vertically formed of 2.5kg/m Y-section standards 1.85m long driven into ground at average 3m maximum centres with 0.56kg/m T-section droppers 1.2m long at average 1m maximum centres between, four 4mm galvanised straining wires tied to standards, droppers, posts and eye bolts, the 1.2m vertical height covered with 50mm galvanised diamond wire mesh fixed at 300mm centres to each straining wire	m	224.86
2197	50mm Diameter horizontal strut 2m long with two ends bent and bolted to posts	No	264.72
2198	50mm Diameter inclined stay 2.1m long with one end bent and bolted to post and the other end with sole plate in and including 20MPa concrete base size 300 x 300 x 600mm deep	No	521.01
2199	50mm Diameter intermediate, corner or gate post 1.85m high vertically with cap and other end with sole plate in and including 20MPa concrete base size 450 x 450 x 600mm	No	599.27
2200	75mm Diameter intermediate, corner or gate post 1.85m high vertically with cap and other end with sole plate in and including 20MPa concrete base size 450 x 450 x 600mm	No	710.54
2201	100mm Diameter intermediate, corner or gate post 1.85m high vertically with cap and other end with sole plate in and including 20MPa concrete base size 450 x 450 x 600mm	No	821.41
	<u>Gates in domestic fencing</u>		
2202	Single gate size 900 x 1200mm high overall with suitable eye-bolt hinges, spring latch and keep fixed in position complete, including covering with 50mm galvanised diamond wire mesh	No	869.10
2203	Single gate size 2400 x 1200mm high overall with suitable eye-bolt hinges, spring latch and keep fixed in position complete, including covering with 50mm galvanised diamond wire mesh	No	1,320.81
2204	Single gate size 3600 x 1200mm high overall with suitable eye-bolt hinges, spring latch and keep fixed in position complete, including covering with 50mm galvanised diamond wire mesh	No	2,305.50
	Bill No. 25 EXTERNAL WORKS		
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
2205	Double gate size 3000 x 1200mm high overall in two equal leaves with suitable eye-bolt hinges and keep fixed in position complete, including covering with 50mm galvanised diamond wire mesh	No	2,466.37
	<u>Security fencing including two coats aluminium paint on metal stays, framing, etc</u>		
2206	Security fencing 1800mm high vertically with 600mm long 45° overhang to one side formed of 50mm diameter standards 2500mm long with 600mm overhang cast into and including 300 x 300 x 750mm 20MPa concrete base at average 3m centres, four rows of galvanised straining wires and four rows of 2.5mm galvanised double strand reverse twist barbed wires tied to standards, posts and eye bolts, the 1800mm vertical height covered with 50mm galvanised diamond wire mesh fixed at 300mm centres to each straining wire	m	562.56
2207	Security fencing 2100mm high vertically with 600mm long 45° overhang to one side formed of 50mm diameter standards 2700mm long with 600mm overhang cast into and including 300 x 300 x 750mm 20MPa concrete base at average 3m centres, five rows of galvanised straining wires and four rows of 2.5mm galvanised double strand reverse twist barbed wires tied to standards, posts and eye bolts, the 2100mm vertical height covered with 50mm galvanised diamond wire mesh fixed at 300mm centres to each straining wire	m	665.67
2208	Security fencing 2400mm high vertically with 600mm long 45° overhang to one side formed of 50mm diameter standards 3000mm long with 600mm overhang cast into and including 300 x 300 x 750mm 20MPa concrete base at average 3m centres, six rows of galvanised straining wires and four rows of 2.5mm galvanised double strand reverse twist barbed wires tied to standards, posts and eye bolts, the 2400mm vertical height covered with 50mm galvanised diamond wire mesh fixed at 300mm centres to each straining wire	m	748.68
2209	<u>Extra over</u> for Razormesh cladding to vertical face of fencing in lieu of diamond mesh	m2	180.01
2210	<u>Extra over</u> for Razor Coil to top of security fencing in lieu of four rows of barbed wire	m	43.34
2211	50mm Diameter inclined stay or vertical post 3m long with one end bent to detail and bolted to post and the other end with sole plate cast in and including 20MPa concrete base size 600 x 600 x 600mm	No	1,113.53
2212	75mm Corner or straining posts 3m high vertically with 600mm long 45° overhang with capped end and other end with sole plate cast in and including 20MPa concrete base size 450 x 450 x 600mm deep	No	1,147.64
2213	100mm Corner or straining posts 2.7m high vertically with 600mm long 45° overhang with capped end and other end with sole plate cast in and including 20MPa concrete base size 450 x 450 x 600mm deep	No	1,539.51
2214	100mm Corner or straining posts 3m high vertically with 600mm long 45° overhang with capped end and other end with sole plate cast in and including 20MPa concrete base size 450 x 450 x 600mm deep	No	1,622.58
	Bill No. 25 EXTERNAL WORKS		
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
2215	100mm Corner or straining posts 3.2m high vertically with 600mm long 45° overhang with capped end and other end with sole plate cast in and including 20MPa concrete base size 450 x 450 x 600mm deep	No	1,605.94
	<u>Gates in security fencing</u>		
2216	Gate size 1000 x 1800mm high overall with 600mm long 45° overhang with barbed wire and covered with 50mm galvanised diamond wire mesh as for fencing and with suitable eye-bolt hinges and 300mm long galvanised dropbolts fixed in position complete	No	1,516.96
2217	Gate size 3000 x 1800mm high overall in two equal leaves with 600mm long 45° overhang with barbed wire and covered with 50mm galvanised diamond wire mesh as for fencing and with suitable eye-bolt hinges and 300mm long galvanised dropbolts fixed in position complete	No	3,220.11
2218	Gate size 3000 x 2100mm high overall in two equal leaves with 600mm long 45° overhang with barbed wire and covered with 50mm galvanised diamond wire mesh as for fencing and with suitable eye-bolt hinges and 300mm long galvanised dropbolts fixed in position complete	No	3,752.49
2219	Gate size 4000 x 1800mm high overall in two equal leaves with 600mm long 45° overhang with barbed wire and covered with 50mm galvanised diamond wire mesh as for fencing and with suitable eye-bolt hinges and 300mm long galvanised dropbolts fixed in position complete	No	4,473.39
2220	Gate size 4000 x 2100mm high overall in two equal leaves with 600mm long 45° overhang with barbed wire and covered with 50mm galvanised diamond wire mesh as for fencing and with suitable eye-bolt hinges and 300mm long galvanised dropbolts fixed in position complete	No	4,760.09
	<u>PRECAST CONCRETE PANEL FENCING</u>		
	<u>Precast concrete panel fencing with exposed faces of all components finished smooth and with both sides of infill panels smooth comprising 150 x 150mm posts with tapered recesses on two sides and reinforced with 12mm diameter mild steel continuous bars, founded in and including 450 x 450 x 450mm unreinforced concrete bases as 1.59m centres and with precast concrete caps cemented on top of each post and with 38 x 1525 x 305mm infill panels reinforced with type 395 high tensile steel fabric reinforcement including grouting panels in cement mortar.</u>		
2221	Precast concrete panel fence 1200mm high above ground complete	m	1,211.12
2222	Precast concrete panel fence 1500mm high above ground complete	m	1,443.61
2223	Precast concrete panel fence 1800mm high above ground complete	m	1,798.00
2224	Precast concrete panel fence 2100mm high above ground complete	m	2,557.05
2225	Precast concrete panel fence 1200mm high above ground complete but with brick pattern to one side	m	859.95
	Bill No. 25 EXTERNAL WORKS		
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<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
2226	Precast concrete panel fence 1500mm high above ground complete but with brick pattern to one side	m	1,279.45
2227	Precast concrete panel fence 1800mm high above ground complete but with brick pattern to one side	m	1,490.59
2228	Precast concrete panel fence 2100mm high above ground complete but with brick pattern to one side	m	2,329.65
<u>MODULAR POLYCRETE FENCING SYSTEM</u>			
<u>Approved modular polycrete fencing system installed strictly in accordance with the manufacturer's instructions</u>			
2229	Modular fencing or balustrade system 1010mm high overall comprising modular posts at 1045mm centres with stainless steel fixing pins, two horizontal rails at top and filled in with intermediate vertical bars at 100mm centres erected in position complete (brick or concrete bases and plinth walls elsewhere)	m	2,955.52
2230	Prepare and apply one coat stone sealer and two coats matt stain varnish to polycrete fencing or balustrading (both sides measured to full flat area)	m2	128.88
<u>WATER TOWERS AND WATER STORAGE TANKS</u>			
<u>Water towers</u>			
2231	'NEC Stahl' or other equal and approved water storage tank stand 6m high suitable for 5,000 litre water tank (elsewhere measured) erected complete on and including 25mPa concrete bases sizes 650 x 650 x 1200mm deep, including excavations, concrete, base plates, etc and paint water tank stand with one coat undercoat and two coats universal gloss enamel paint	No	236,374.00
2232	'NEC Stahl' or other equal and approved water storage tank stand 6m high suitable for 10,000 litre water tank (elsewhere measured) erected complete on and including 25mPa concrete bases sizes 650 x 650 x 1200mm deep, including excavations, concrete, base plates, etc and paint water tank stand with one coat undercoat and two coats universal gloss enamel paint	No	263,289.42
<u>Water storage tanks as manufactured by Okahandja Plastic Converters cc or other equal and approved</u>			
2233	5,000 Litre LLDPE hexene polyethylene water storage tank complete with lid and unions for inlet, outlet and overflow pipes	No	11,050.59
2234	10,000 Litre LLDPE hexene polyethylene water storage tank complete with lid and unions for inlet, outlet and overflow pipes	No	21,063.30
Bill No. 25 EXTERNAL WORKS			
Initial here.....			

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>COVERED CARPORTS</u>		
	<u>Shadenet covered carports supplied and erected complete with standard 76mm diameter posts 2.1m clear height, 60mm diameter top structure, 6mm galvanised steel wire fixing cables, etc with base plates set into and including 450 x 450 x 450mm concrete class 20MPa bases, the steel structure painted with one coat zinc chromate primer, one coat universal undercoat and two coats gloss enamel paint and covered with 95% coloured shade netting</u>		
2235	Shadenet dome-shaped carport suitable for two cars	No	15,591.72
2236	Shadenet dome-shaped carport suitable for three cars	No	17,574.75
2237	Shadenet cantilevered carport suitable for two cars	No	21,480.56
2238	Shadenet cantilevered carport suitable for three cars	No	21,292.62
	<u>GARDEN AND OUTDOOR FURNITURE</u>		
	<u>Approved artificial plastic garden and outdoor furniture</u>		
2239	Four-seater picnic table combination comprising table and benches both sides	No	7,083.61
2240	Six-seater picnic table combination comprising table and benches both sides	No	13,599.40
2241	Eight-seater picnic table combination comprising table and benches both sides	No	17,362.36
	<u>FLAGPOLES</u>		
	<u>Galvanised mild steel</u>		
2242	<p>Flagpole 7500mm high overall comprising:</p> <ul style="list-style-type: none"> • 76mm external diameter x 2.8mm thick lower post 4000mm long four times holed for and including two 16mm diameter x 125mm long mild steel bolts and one 10mm diameter galvanised mild steel rope stays 350mm girth four times bent and welded to post; • 51mm external diameter x 2.8mm thick upper post 3500mm long; • the two post joined together with and including 2mm thick x 150mm long reducing cone with both ends welded all round to posts; • two 7mm diameter solid strand nylon ropes each 18m long including pulley; • pole support structure comprising two 100 x 50 x 6mm channel sections 750mm long twice holed for bolts and cast into concrete base including 90 x 60 x 8mm gusset plate welded between channels; • 20mPa mass concrete base 750 x 750 x 800mm with top of base finished off smooth with a steel trowel including all excavation, formwork, etc and erect and fix pole in position complete 	No	10,593.25
	<p>Bill No. 25 EXTERNAL WORKS</p> <p style="text-align: right;">Initial here.....</p>		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
2243	<p>Flagpole 8000mm high overall comprising:</p> <ul style="list-style-type: none"> • 76mm external diameter x 2.8mm thick lower post 4000mm long four times holed for and including two 16mm diameter x 125mm long mild steel bolts and one 10mm diameter galvanised mild steel rope stays 350mm girth four times bent and welded to post; • 51mm external diameter x 2.8mm thick upper post 4000mm long; • the two post joined together with and including 2mm thick x 150mm long reducing cone with both ends welded all round to posts; • two 7mm diameter solid strand nylon ropes each 18m long including pulley; • pole support structure comprising two 100 x 50 x 6mm channel sections 750mm long twice holed for bolts and cast into concrete base including 90 x 60 x 8mm gusset plate welded between channels; • 20mPa mass concrete base 750 x 750 x 800mm with top of base finished off smooth with a steel trowel including all excavation, formwork, etc and erect and fix pole in position complete <p><u>White powder coated aluminium</u></p>	No	12,096.62
2244	<p>Tapered tubular white powder coated aluminium flagpole 7.5m high above ground level complete (88mm - 76mm diameter) with two 100 x 50mm stainless steel channel section stanchions approximately 2000mm high with bottom 700mm cast into concrete base and the flagpole twice bolted to upper portion of stanchions with M12 stainless steel bolts, and including nylon hoisting ropes, aluminium cap, stainless steel eye bolt, nylon pulley with stainless steel covers, stainless steel cleat and including 500 x 500 x 700mm deep MPA concrete base, excavation, backfilling, etc complete</p> <p><u>Paintwork</u></p>	No	14,741.62
2245	<p>One coat zinc chromate primer and one coat undercoat and two coats aluminium paint on rails, bars, pipes, etc. not exceeding 300mm girth</p>	m	50.80
	<p>END OF BILL</p> <p>Bill No. 25 EXTERNAL WORKS</p> <p style="text-align: right;">Initial here.....</p>		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
	<u>BILL No 24</u>		
	<u>NON-SCHEDULE WORK</u>		
	<u>NON-SCHEDULED MATERIALS</u>		
2246	Percentage allowance to be added to the <u>NETT purchase cost of non-scheduled items excluding VAT</u> for profit and overhead costs		0.00%
	<u>LABOUR RATES</u>		
	<u>NOTE :</u>		
	1 The following labour rates must be INCLUSIVE all labour costs such as social security costs, pensions, bonuses and the like.		
	2 The labour rates must also be INCLUSIVE of all supervision costs, foremen cost and PROFIT on labour as no extra costs in connection herewith will be payable.		
2247	Hourly all inclusive labour rate for a bricklayer or plasterer	Per Hr	79.51
2248	Hourly all inclusive labour rate for a carpenter	Per Hr	84.51
2249	Hourly all inclusive rate for a plumber	Per Hr	84.71
2250	Hourly all inclusive labour rate for a general handyman, metalworker, etc	Per Hr	92.57
2251	Hourly all inclusive labour rate for an artisan painter	Per Hr	64.61
2252	Hourly all inclusive labour rate for a labourer	Per Hr	44.54
	<u>SELECTED SUB-CONTRACTORS</u>		
2253	Percentage allowance to be added to the <u>NETT VALUE of the work of selected sub-contractors excluding VAT</u> for profit and attendance on the selected sub-contractors		0.00%
	<u>EMERGENCY CALL-OUTS</u>		
	<u>NOTE :</u>		
	1 Payment of Emergency All-Outs will only take place when the call-out is outside of normal working hours. Normal working hours are considered to be between 07h00 and 18h00 Monday to Friday inclusive.		
	2 Travelling time of labour will be apid at the al-inclusive labour rates stated above within this Bill.		
	Bill No. 26 NON-SCHEDULED WORK		
	Initial here.....		

<u>Item No</u>		<u>Unit</u>	<u>Rate</u>
2254	Fixed cost for Emergney Call-Out	No	2,458.72
2255	Kilometre rate for transport of materials and labour for journeys where the distance is more than 25km from the Home Base or Branch Office (i.e. 50km return journey)	KM	29.50
	END OF BILL		
	Bill No. 26 NON-SCHEDULED WORK	Initial here.....	

<u>Bill No</u>	<u>FINAL SUMMARY</u>	<u>Page No</u>	<u>Amount</u>
	GENERAL NOTES	1	Not Priced
	DEMOLITIONS AND ALTERATIONS	14	Not Priced
	GENERAL REPAIRS TO EXISTING WORK	26	Not Priced
	REPAIRS TO PLUMBING AND DRAINAGE INSTALLATIONS	30	Not Priced
	PAINTWORK	38	Not Priced
	NON-SCHEDULED WORK	40	Not Priced
	GENERAL NOTES	41	Not Priced
	EARTHWORKS	44	Not Priced
	CONCRETE, FORMWORK AND REINFORCEMENT	51	Not Priced
	MASONRY	57	Not Priced
	WATERPROOFING	62	Not Priced
	ROOF COVERINGS	68	Not Priced
	CARPENTRY WORK	77	Not Priced
	JOINERY WORK	85	Not Priced
	CEILINGS AND PARTITIONS	92	Not Priced
	FLOOR COVERINGS, WALL LININGS, ETC	95	Not Priced
	IRONMONGERY	106	Not Priced
	STRUCTURAL STEELWORK	110	Not Priced
	METALWORK	122	Not Priced
	PLASTERING	126	Not Priced
	TILING	129	Not Priced
	PLUMBING AND DRAINAGE	156	Not Priced
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FINAL SUMMARY

<u>Bill No</u>		<u>Page No</u>	N\$	<u>Amount</u>
	GLAZING	158		Not Priced
	PAINTWORK	165		Not Priced
	EXTERNAL WORKS	175		Not Priced
	NON-SCHEDULED WORK	177		Not Priced
	Initial here.....		N\$	Not Priced