



Cupboard (Reception at Station Commander)

3 General inspection of the existing reception desk necessary refixing, replace missing 1m2 6mm safety glass sand blast panel and leave in a good working order

No

1

SUNDRIES

Fix and make good damaged meranti door

4 Replace damaged timber panel for 813 x 2032mm High door (D13A)

No

1

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Section No. 2
Section 2: Building Works
Bill No. 6
Carpentry and Joinery

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Dwarsberg Police Station (Contract 2)

Section No. 2

Bill No. 6

Carpentry and Joinery

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Item No	<u>SECTION 2</u>	Quantity	Rate	Amount
	<u>BILL NO. 7</u>			
	<u>CEILING. PARTITIONS AND ACCESS FLOORING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Fixing</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted", the bolts have been given elsewhere			
	<u>Ceilings</u>			
	Unless otherwise described ceilings shall be deemed to be horizontal			
	<u>CEILING TIMBERS. BEADS. INSULATION. ETC</u>			
	<u>Wrought softwood</u>			
1	19x50mm Meranti cornice, plugged	m	43	
	<u>"Dynamic Acoustic Solutions" or similar approved</u>			
2	80 x 80 x 110mm Moulded cornice	m	2	
	<u>NAILED-UP CEILINGS</u>			
	<u>4mm Fibre-cement plain ceiling boards with H-profile galvanised steel jointing strips</u>			
3	Ceilings fixed to existing brandering	m ²	21	
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SUSPENDED CEILINGS

SUPPLEMENTARY PREAMBLES

Proprietary suspended ceilings

Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufactures instruction

595 x 1195 x 40mm "Saint Gobain Gyproc Isover Soundlite Coral 6" or similar approved pre-painted acoustic panels on and including "Donn QRC T37V" or similar approved grid system main and cross tees necessary hangers, grids, hold-down clips etc to matching existing, installation according to manufacturers specifications

4 Ceilings in small panels suspended not exceeding 1m below timber purlins m² 59

Take into possession 595 x 1195 x 40mm "Saint Gobain Gyproc Isover Soundlite Coral 6" or similar approved pre-painted acoustic panels on and including "Donn QRC T37V" or similar approved grid system main and cross tees, necessary hangers, grids, hold-down clips etc to matching existing, installation according to manufacturers specifications

5 Ceilings in small panels suspended not exceeding 1m below timber purlins m² 5

6 Re-align and make good sagging suspended ceiling and leave in a good condition m² 5

135mm Thick Aerolite insulation non-combustible and class 1 fibre index rating. Strictly according to the manufacturer's specifications and details

7 Over ceilings and trapdoors m² 20

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Ceiling and Partitioning

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Item No	SECTION 2	Quantity	Rate	Amount
	<u>BILL NO. 8</u>			
	<u>FLOOR COVERINGS, WALL LININGS</u>			
	<u>Fixing</u>			
	Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, lining, etc			
	<u>FLOOR COVERINGS</u>			
	<u>"Gradus Esplanada" or similar approved mat installed inside a recessed and screeded in matframe, according to manufacturers specifications</u>			
1	1200mm Width on floors and landings	m	5	
	<u>COVERSTRIPS, DIVIDING STRIPS ETC</u>			
2	30mm Wide aluminium edge cover strips plugged	m	5	
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Item No	SECTION 2	Quantity	Rate	Amount
	<u>BILL NO. 9</u>			
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>HINGES. BOLTS. ETC</u>			
	<u>"Assa Abloy" or similar approved</u>			
1	150mm Flush bolt (code AL8208-150AS ART 208C91 L)	No	1	
2	225mm Flush bolt (code AL8208-225AS ART 208C91 L)	No	1	
	<u>LOCKS</u>			
	<u>Keys</u>			
	Unless otherwise described locks shall have two keys each			
	<u>"Assa Abloy" or similar approved</u>			
3	Mortice latch (code 26310-76)	No	1	
	<u>Approved</u>			
4	WC indicator bolt (code CZ80941SC)	No	1	
	<u>"Union 323" or similar approved cylinder deadlock (code L-21315-76SS)</u>			
5	Mortice sash lock (code L-2215-78SS/SL)	No	1	
	<u>HANDLES</u>			
	<u>"Assa Abloy" or similar approved</u>			
6	Pull handle on 150 x 75mm plate profile (code SS6163 - 05 SS)	Pairs	1	
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7	Pull handle on 150 x 75mm plate profile (code SS6163 - 06 SS)	Pairs	1
<u>LETTERS. NAMEPLATES. ETC</u>			
<u>SIGNAGE</u>			
<u>Door number sign size 90 x 30mm high of 3mm thick perspex or aluminium with engraving, 20mm high Arial black vinyl text numerals and letters on white background, screwed to metal door frame with 15mm countersunk raised head chromium plated screws</u>			
8	Sign with two letters or numerals	No	22
9	Sign with three letters or numerals	No	29
<u>Door room name signs to be clear anodised aluminium sign holder extrusion (clear cover - gloss/non glare) with grey plastic end caps, as per "Vista System by E.G Maud" or similar approved, including 23mm Arial black vinyl text numerals or letters on silver/grey background digitally printed and cut, plugged to wall or screwed to door with 15mm countersunk raised head chromium plated screws at each corner as per the manufacturers instructions</u>			
10	400 x 80mm Sign fixed to door to read "SAP 13 STORE ROOM"	No	1
11	400 x 80mm Sign fixed to door to read "CLEANING MATERIAL STORE ROOM"	No	1
12	400 x 80mm Sign fixed to door to read "GENERAL STORE ROOM"	No	1
13	400 x 80mm Sign fixed to door to read "TEMPORARY STORE ROOM"	No	1
14	400 x 80mm Sign fixed to door to read "CHANGE ROOM FOR MEMBERS"	No	1
15	400 x 80mm Sign fixed to door to read "KITCHEN"	No	4
16	400 x 80mm Sign fixed to door to read "WEAPONS & AMO STORE"	No	1

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17	400 x 80mm Sign fixed to door to read "WEAPON SAFE"	No	1
18	400 x 80mm Sign fixed to door to read "AMO SAFE"	No	1
19	400 x 80mm Sign fixed to door to read "VICTIM FRIENDLY WAITING AREA"	No	1
20	400 x 80mm Sign fixed to door to read "VICTIM FRIENDLY ROOM"	No	1
21	400 x 80mm Sign fixed to door to read "SENSITIVE STATEMENT ROOM"	No	1
22	400 x 80mm Sign fixed to door to read "CSC COMMANDER"	No	1
23	400 x 80mm Sign fixed to door to read "RADIO ROOM"	No	1
24	400 x 80mm Sign fixed to door to read "CAS TERMINAL ROOM"	No	1
25	400 x 80mm Sign fixed to door to read "MEMBERS SERVICE AREA"	No	1
26	400 x 80mm Sign fixed to door to read "FRONT SERVICE AREA"	No	1
27	400 x 80mm Sign fixed to door to read "OFFICE 1"	No	1
28	400 x 80mm Sign fixed to door to read "OFFICE 2"	No	1
29	400 x 80mm Sign fixed to door to read "STATEMENTS ROOM"	No	1
30	400 x 80mm Sign fixed to door to read "CRIME ROOM"	No	1
31	400 x 80mm Sign fixed to door to read "INVESTIGATOR 1"	No	1
32	400 x 80mm Sign fixed to door to read "INVESTIGATOR 2"	No	1
33	400 x 80mm Sign fixed to door to read "INVESTIGATOR 3"	No	1

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34	400 x 80mm Sign fixed to door to read "INVESTIGATOR 4"	No	1
35	400 x 80mm Sign fixed to door to read "DETECTIVE COMMANDER"	No	1
36	400 x 80mm Sign fixed to door to read "OFFICE 3"	No	1
37	400 x 80mm Sign fixed to door to read "STATION COMMANDER RECEPTION/WAITING AREA"	No	1
38	400 x 80mm Sign fixed to door to read "STATION COMMANDER OFFICE"	No	1
39	400 x 80mm Sign fixed to door to read "OFFICE 4"	No	1
40	400 x 80mm Sign fixed to door to read "CIAC OFFICE"	No	1
41	400 x 80mm Sign fixed to door to read "FINANCE OFFICE"	No	1
42	400 x 80mm Sign fixed to door to read "WALK-IN SAFE"	No	1
43	400 x 80mm Sign fixed to door to read "STATIONERY ROOM"	No	1
44	400 x 80mm Sign fixed to door to read "SERVER TELEPHONE POD ROOM"	No	1
45	400 x 80mm Sign fixed to door to read "ADMIN OFFICE"	No	1
46	400 x 80mm Sign fixed to door to read "LECTURE ROOM"	No	1

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	<u>Information signs to be horizontal landscape sign. clear anodised aluminium single sign holder extrusion (clear cover - glossy/non glare) with matching clear anodised aluminium metal end caps. as per "Vista System by E.G Maud" or similar approved. including 50mm Arial white vinyl text numerals and letters digitally printed and cut. plugged to wall or screwed to door with 15mm countersunk raised head chromium plated screws at each corner all as per manufacturers specifications</u>		
47	600 x 150mm Sign fixed to door to read "LECTURE ROOM"	No	2
48	600 x 150mm Sign fixed to door to read "CELL VISITORS"	No	1
49	600 x 150mm Sign fixed to door to read "VICTIM FRIENDLY"	No	1
50	600 x 150mm Sign fixed to door to read "SAP 13 STORE"	No	1
51	800 x 150mm Sign fixed to door to read "COMMUNITY SERVICE CENTRE" including 150 x 150mm SAPS logo to comply with SAPS specifications	No	1
	<u>Directory sign to be portrait sign. clear anodised aluminium single sign holder extrusion (clear cover - glossy/non glare) with matching clear anodised aluminium metal end caps. as per "Vista System by E.G Maud" or similar approved. including 150 x 150mm SAPS logo, 23mm, 50mm and 80mm Arial white vinyl text numerals and letters digitally printed and cut on black background plugged to wall with 15mm countersunk raised head chromium plated screws at each corner all as per manufacturers specifications</u>		
52	900 x 1200mm Sign fixed to wall to read DIRECTORY (80mm Arial), INVESTIGATION, COMMANDER, ADMINISTRATION, LECTURE ROOM, CELL BLOCK (50mm Arial) A18, A19, A20, A21, A22, A23, A24, A26, A27, A29, A30, A31, A32, A33, A34, A37, A38, OFFICE 1, OFFICE 2, STATEMENTS, CRIME ROOM, INVESTIGATOR 1, INVESTIGATOR 2, INVESTIGATOR 3, INVESTIGATOR 4, DETECTIVE COMMANDER, OFFICE 3, STATION COMMANDER OFFICE, OFFICE 4, CIAC OFFICE, FINANCE OFFICE, SERVER ROOM, ADMIN OFFICE, VISITORS ROOM (23mm Arial)	No	1
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	<u>Double sided wall bracket toilet sign of clear anodised aluminium single sign holder extrusion (clear cover - glossy/non glare) with grey ABS end caps. as per "Vista System by E.G Maud" or similar approved, including digitally printed and cut logo, letters and symbols and black background</u>		
53	200 x 200mm Toilet sign with SAPS logo (colour), TOILETS and male and female and fixing bracket to wall	No	1
	<u>"Dorma" or similar approved grade 304 stainless steel</u>		
54	150 x 150mm DSS-130 stainless steel with MALE engraving with countersunk fixing holes plugged and screwed with aluminium screws	No	4
55	150 x 150mm DSS-131 stainless steel with FEMALE engraving with countersunk fixing holes plugged and screwed with aluminium screws	No	4
56	150 x 150mm DSS-133 stainless steel with DISABLED engraving with countersunk fixing holes plugged and screwed with aluminium screws	No	1
57	150 x 150mm DSS-133 stainless steel with TEA CUP engraving with countersunk fixing holes plugged and screwed with aluminium screws	No	4
	<u>"Progressive Signs" or similar approved photo-luminescent single sided fire and directional signs in natural anodised aluminium frame with ABS material plugged to wall or screwed to door with 15mm countersunk raised head chromium plated screws at each corner or suspended ceiling including two chromium plated chains all as per manufacturers specifications</u>		
58	380 x 190mm PLG 5 emergency exit route sign (right)	No	2
59	380 x 190mm PLG 5 emergency exit route sign (left)	No	3
60	380 x 190mm PLF 33 exit route sign	No	7
61	380 x 190mm PLG 13 first-aided kit sign	No	1
62	380 x 190mm PLG 2 emergency exit route sign (straight)	No	1

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63	380 x 190mm PLF 11 emergency fire extinguisher and fire hose reel sign	No	3
64	380 x 190mm PLF 2 emergency fire extinguisher sign	No	2
65	380 x 190mm PLF 5 emergency fire hose reel sign to be secured with epoxy and tamper proof screws	No	1
66	380 x 190mm PLF 39 electrical hazard door sign	No	1
<u>Welcome Board Sign</u>			
67	2450 x 1220mm Sign formed of 1mm thick white chromadek sheets fixed back to back to steel framing (elsewhere measured) with SAPS emblem and Arial text lettering to read WELCOME MUYEXI POLICE STATION (on both sides) all to SAPS specifications and colour codes and lettering and emblem pop riveted and silicone sealed to backing plates	No	1
<u>Batho Pele Sign</u>			
68	2450 x 1220mm Sign formed of 1mm thick white chromadek sheet fixed to steel framing (elsewhere measured) with Arial text lettering to read SOUTH AFRICAN POLICE SERVICE BATHO PELE PRINCIPLES (principle numbered from 1 to 8 to be included) all to SAPS specifications and colour codes and lettering pop riveted and silicone sealed to backing plate	No	1
<u>Station Plaque Sign</u>			
69	600 x 400mm Sign formed of bronze plate with SAPS emblem and coat of arms and letters in New Times Roman text to read SOUTH AFRICAN POLICE SERVICE MUYEXI POLICE STATION WAS OFFICIALLY OPENED BY THE HONOURABLE MINISTER OF POLICE (include name of minister and date opened) and plaque fixed to wall	No	1
<u>Framing to Signs</u>			
70	Excavate in earth not exceeding 2m deep for post base	M3	0.2
71	Unreinforced concrete 25MPa/19mm in post bases	M3	0.2

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72	50 x 50 x 1,8mm Mild steel hollow section post 3600mm long with top cap welded on, cast 500mm deep into post base and the posts with grey primer coat and two coats sprayed enamel paint	No	4
<u>PELMETS AND CURTAIN TRACKS</u>			
<u>Ceiling mounted "Extravaganza" or similar approved hospitrack rail including curtain including 12 alinders per meter. hangers, brackets, stop ends, etc</u>			
73	L-shaped track 4000mm long including 2600 high curtain	No	1
<u>BATHROOM FITTINGS</u>			
<u>"Bobric" or similar approved</u>			
74	Wall mounted stainless multi-roll toilet roll dispenser (code Classic Series B-2888)	No	1
<u>"Railman Grabrails" or similar approved</u>			
75	32mm Stainless steel dogleg rail with two flanges (code DL2), all as per SANS10400	No	1
<u>STEEL LOCKERS</u>			
<u>"Greenfield" or similar approved steel lockers with standard baked enamel finish</u>			
76	450 x 380 x 1800mm High heavy duty locker made of 1.6mm steel doors and 0.8mm steel sides with three way locking system fixed on built bench	No	2
<u>SUNDRIES</u>			
<u>"Assa Ablov" or similar approved</u>			
77	Stainless steel floor door stop (code 87001SS)	No	1
<u>Approved</u>			
78	1270 x 670 x 820mm High stainless steel four seater chairs bolted to floor with M12 bolts	No	1
79	2440 x 670 x 820mm High stainless steel four seater chairs bolted to floor with M12 bolts	No	2

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Handwritten signature

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Item No	Quantity	Rate	Amount
<u>SECTION 2</u>			
<u>BILL NO. 10</u>			
<u>METALWORK</u>			
<u>Note</u>			
<u>All work according to the latest "FIVE STAR SPECIFICATION OF SAPS"</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions of bolts, anchors, etc</u>			
Descriptions of bolts shall be deemed to include nuts and washers			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres			
<u>Aluminium doors, windows, etc</u>			
Doors and windows shall comply with AAAMSA design criteria			
Glazing shall comply with SAGGA regulations. Glass shall be laminated performance glass as shown on the window schedules/drawings appended to these bills of quantities. Glass thickness shall comply with SAGGA regulations irrespective of thickness shown on the schedules/drawings			
Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed			
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For purpose made windows and doors, refer to drawings annexed to these bills of quantities

The following certificates shall be provided prior to commencement of site work:

1. A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product
2. A Certificate of Conformance confirming that anodizing of powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively
3. A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process
4. A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have installed in the mandatory areas and that each individual pane of safety glazing material been permanently marked
5. A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against de lamination and colour degradation for a period of not less than five years

GALVANISED STEEL GATES. SCREENS. ETC.

Burglar proofing with 30 x 6mm mild steel angle steel flat bar frame with 12mm diameter mild steel round bars fixed to of frame spaces max. 100mm c/c. with bars supported with horizontal 30 x 6mm flat bar for every 1m high spaced equally. Frame to be fixed with M10 bolts max. every 300mm of height. Top and bottom of frame to be fixed inside of door frame max. every 350mm of width. Installation must comply with SANS 10400

1	Opening 900 x 2100mm high	No	1
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Metalwork

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Galvanised steel panel

- 2 Fixed mesh screen 330 x 1785mm with 40 x 40 x 3mm angle section frame, with six 3 x 40mm flat bar lugs 180mm long built into brickwork 150mm deep. Covered with 2mm thick flatex mesh 10mm diameter perforated at 26mm centres both directions

No

1

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 Metalwork

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Bill No. 10

Metalwork

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Metalwork

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Item No	Quantity	Rate	Amount
<p><u>SECTION 2</u></p>			
<p><u>BILL NO. 11</u></p>			
<p><u>PLASTERING</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>GRANOLITHIC</u></p>			
<p><u>Method</u></p>			
<p>The method to be used shall be either the monolithic method or the bonded method</p>			
<p><u>Preparation</u></p>			
<p>For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic</p>			
<p><u>Mix</u></p>			
<p>Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic</p>			
<p>Carried to Collection</p>			
<p>Section No. 2 Section 2: Building Works Bill No. 11 Plastering</p>			
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Panels

Granolithic shall be laid in panels not exceeding 14m² for monolithic finishes, not exceeding 9.5m² for bonded finishes and not exceeding 6m² for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1.5 times its width

Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints

Laying

Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels

Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels

After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel towelled or power floated

Curing, seasoning and protection

Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying

Colour

Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour

SCREEDS

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Plastering

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<u>Screeds on concrete</u>			
1	25mm Thick on floors	m ²	5
<u>POLYURETHANE SCREED</u>			
<u>0.5mm Thick "Flowcrete Flowfresh SR Ultra" or similar approved polyurethane resin screed, with textured anti-slip surface, 2 coats sealcoat, installed according to manufacturers specifications</u>			
2	On cement or granolithic screeds	m ²	19
<u>0.5mm Thick "Flowtex F1" or similar approved coving, with textured anti-slip surface, semi-flexible joint sealant at movement joints or around floor drains and channels installed according to manufacturers specifications</u>			
3	75 x 25mm Coving	m	24
<u>INTERNAL PLASTER</u>			
<u>Cement plaster on previously painted chipped fair face brickwork and concrete, including necessary preparation, removal of previously paint, chipping walls and applying bonding liquid</u>			
4	15mm Thick on walls in patches	m ²	10
5	On narrow widths not exceeding 300mm wide	m ²	2
<u>Rough cast cement plaster on chased walls to match existing</u>			
6	On walls in patches	m ²	20
<u>"Rhinolite" or similar approved skim plaster on existing plastered ceiling, walls etc</u>			
7	On walls	m ²	25

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Plastering

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<u>Cement plaster on previously painted chipped fair face brickwork and concrete, including necessary preparation, removal of previously paint, chipping walls and applying bonding liquid</u>			
8	On walls	m ²	46
9	15mm Thick on walls in patches	m ²	112
10	On narrow widths not exceeding 300mm wide	m ²	10

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Bill No. 11

Plastering

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Plastering

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Item No	<u>SECTION 2</u>	Quantity	Rate	Amount
	<u>BILL NO. 12</u>			
	<u>TILING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Fixing</u>			
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
	Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for a tiling key-coat			
	Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from "Tal Professional" range of products as recommended by the manufacturer of the tiles			
	<u>WALL TILING</u>			
	<u>200 x 200mm Heavy duty glazed ceramic wall tiles fixed with approved tile adhesive to plaster (plaster elsewhere) with 4mm straight joints fixed and grouted with approved tile grout</u>			
1	On walls	m ²	5	
2	On walls in narrow widths not exceeding 300mm high	m ²	2	
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	<u>300 x 450mm Heavy duty glazed ceramic wall tiles fixed with approved tile adhesive to plaster (plaster elsewhere) with 4mm straight joints fixed and grouted with approved 15mm Thick on top and sides of counters, seats, etc to match existing</u>		
3	On walls	m ²	40
4	On walls in narrow widths not exceeding 300mm high	m	15

FLOOR TILING

	<u>300 x 300 x 8mm "Viltro" or similar approved non-slip floor tiles fixed with adhesive to screed (elsewhere measured) and flush pointed with approved epoxy grouting</u>		
5	On floors and landings	m ²	2
6	On walls in narrow widths not exceeding 300mm high	m ²	1
7	120mm High skirting	m	2
	<u>40 x 40 x 4mm approved non slip ceramic mosaic tiles fixed with adhesive to screed (elsewhere measured) and flush pointed with approved epoxy grouting</u>		
8	On floors and landings	m ²	4

SUNDRIES

9	Hacking existing tiling grout and re-grouting joints	m	10
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SECTION 2

BILL NO. 13

PLUMBING AND DRAINAGE

SUPPLEMENTARY PREAMBLES

Stormwater channels

Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site

Septic tanks

Descriptions of proprietary type septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions and disposal of surplus material on site

Stainless steel basins, sinks, wash troughs, urinals, etc

Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)

Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)

Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable

Sealing of edges

Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone

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PVC-U pipes and fittings

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings

Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

PVC-U pressure pipes and fittings

Pipes of 50mm diameter and smaller shall be plain ended with solvent welded PVC-U loose sockets and fittings

Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be PVC-U and all other fittings shall be cast iron, all with similar push-in type joints

High density polyethylene (HDPE) pipes and fittings

Pipes shall be type IV and of the class specified with compression fittings

Polypropylene pipes

Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings

Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions

Copper pipes

Pipes shall be hard drawn and half-hard pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "P" type. Capillary solder fittings shall comply with ISO 2016

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Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition

Reducing fittings

Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained

Fixing of pipes

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

Paper wrapping to pipes

Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings

Disinfection of water pipework

Water pipework is to be disinfected at completion

Laying, backfilling, bedding, etc of pipes

Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled

Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001

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General

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site

Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

SOIL DRAINAGE

Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good wall finishes (making good paintwork elsewhere)

1	uPVC damaged 600mm long pipes not exceeding 110mm diameter from walls etc	No	6
	<u>uPVC Class 34 pipes</u>		
2	110mm Pipes vertically or ramped to cleaning eye etc. (no excavation)	m	8
3	110mm Pipes laid in trenches including excavation, risk of collapse, backfilling, compaction, keeping free of water and removal of excavated material not exceeding 1m deep	m	1

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Extra over uPVC pipes for fittings

4	110mm Bend	No	2
5	110mm Access junction	No	2
6	110mm P-trap	No	1
7	110mm Fittings	No	11

Sundries

8	Unreinforced concrete encasing 15MPa/19 around 110mm vertical or raking drain pipe to cleaning eye including all necessary formwork	m	1
9	110mm Gully not exceeding 1m deep including approved bedding, backfilling and compaction	No	1

Testing

10	Testing drainage pipe system		Item
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SANITARY FITTINGS

"Franke" or similar approved

11	1350 x 457mm Wide "Citiline" or similar approved stainless steel double end bowl drop-in sink (code DT 135E) fitted onto timber cupboard (elsewhere measured)	No	2
12	Take into possession 1350 x 457mm wide stainless steel double end bowl drop-in sink on site and install	No	1
13	Take into possession stainless steel table 1500 x 650mm Wall bench with 150mm high integral splashback and 50 x 10mm turndown and stainless under shelf, on site and install	No	1
14	Take into possession stainless pot sink 900 x 650mm single bowl pot sink with 150mm high integral splashback and stainless steel legs and adjustable foot pieces, on site and install	No	1

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15	Take into possession stainless steel sink 1500 x 650mm double bowl catering sink with double end bowl with 150mm high integral splashback and stainless steel legs and adjustable foot pieces, on site and install	No	1
16	Sink accessories, waste fittings and connection <u>"Vaal" or similar approved</u>	No	4
17	510 x 405mm Vitreous china "Hibiscus" or similar approved basin (code 7023) with two tap holes and integrated overflow bolted to wall with two 10mm bolts (code 8448Z0)	No	2
18	510 x 405mm Vitreous china "Hibiscus" or similar approved basin (code 7023) with full floor mounter pedestal (code 7150) and two tap holes and overflow bolted to wall with two 10mm bolts (code 8448Z0)	No	1
19	Vitreous china "Daisy" or similar approved 90-degree outlet with open rim washdown pan (code 751400) and matching 9 litre cistern (code 710532), complete with lid, fitments and flush pipe elbow <u>Approved</u>	No	1
20	Plastic toilet seat WASTE UNIONS ETC <u>"Cobra Watertech" or similar approved</u>	No	2
21	32mm Basin waste union with backnut plug and chain (code 301)	No	2
22	38mm Brass shower waste with 75mm diameter CP shower grating (code 323)	No	1
23	38mm Sink or wash trough waste with backnut plug and chain (code 316) TRAPS ETC <u>"Marley" or similar approved</u>	No	2
24	40mm Deep butyl rubber resealing "P" or "S" trap	No	1

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25	40mm Deep butyl rubber resealing "P" or "S" trap adjusted for double sink/trough <u>"Cobra Watertech" or similar approved</u>	No	1
26	40mm Chromium plated bottle trap (code 345/40)	No	3
27	40mm Brass shower P trap with deep seal (code VA2.342) <u>TAPS. VALVES. ETC</u> <u>"Cobra Watertech" or similar approved</u>	No	3
28	15mm Brass stopcock	No	1
29	22mm Brass stopcock	No	1
30	15mm Star brass bib tap with hose union (code 208LK-15)	No	4
31	15mm Star CP bib tap (code 206EXT)	No	2
32	15mm "Stella" or similar approved CP pillar tap (code 3314ST) with colour indices	No	4
33	15mm "Stella" or similar approved CP under wall stoptap (code 3338ST)	No	4
34	15mm CP lever action pillar tap with 1/4 turn ceramic disc and colour indices (code 503-21)	No	2
35	15mm "Stella" or similar approved CP wall type sink mixer with swivel outlet (code 166/041)	No	2
36	15mm "Vandal" or similar approved CP resistant shower head (code KP2.6) with single function and self cleaning spray nozzle <u>"Walcro" or similar approved</u>	No	2
37	15mm Wall mounted shower rose (code CIRS-V2) with shower valve (code 150NHS)	No	1

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38	15mm "DZR" or similar approved brass urinal flushing valve (code 155UW) with internal flow control strainer, no hold feature, and chrome wall plate complete with grating, flush pipes (code 103/6) and spreader	No	2
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39	20mm "DZR" or similar approved concealed brass flush valve (code 103LUR) with internal strainer and VR button complete with flush pipes (code 103/6) and spreader	No	1
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SANITARY PLUMBING

uPVC soil vent and waste piping in accordance with SABS 967 including all straight couplings, cutting and waste, etc

40	40mm Pipes	m	39
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41	50mm Pipe	m	15
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42	110mm Pipe	m	42
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43	40mm Pipe laid in filling under floors	m	45
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44	50mm Pipe laid in filling under floors	m	17
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45	110mm Pipe laid in filling under floors	m	3
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Extra over uPVC pipes for fittings

46	40mm Bend	No	17
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47	50mm Bend	No	6
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48	110mm Bend	No	2
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49	40mm Access bend	No	46
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50	50mm Access bend	No	8
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51	110mm Access bend	No	10
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52	40mm Access junction	No	4
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53	50mm Access junction	No	3
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54	110mm Access junction	No	7
55	110mm Pan connector	No	2
56	110 x 50mm Access reducing junction	No	3
57	50mm Two-way vent valve	No	2
58	110mm Two-way vent valve	No	7

Sundries

59	Testing waste pipe system		Item
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WATER SUPPLIES

Class 0 copper pipes

60	15mm Pipes	m	66
61	15mm Pipes chased into brick walls, including making good	m	72
62	22mm Pipes	m	10
63	22mm Pipes chased into brick walls, including making good	m	21
64	28mm Pipes	m	36
65	28mm Pipes chased into brick walls	m	10

Extra over class 0 copper pipes for brass compression fittings

66	15mm Fittings	No	93
67	22mm Fittings	No	29
68	28mm Fittings	No	19

Stainless steel braided flexi hose

69	15mm Flexi hose	No	4
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<u>Galvanised steel pipes</u>			
70	25mm Pipes	m	26
<u>Galvanised steel pipes</u>			
71	25mm Fittings	No	12
<u>Paper lagging</u>			
72	Two layers of stout brown paper tightly wrapped around 15mm pipe and couplings and tied with wire prior to building in	m	10
73	Two layers of stout brown paper tightly wrapped around 22mm pipe and couplings and tied with wire prior to building in	m	10
<u>Sundries</u>			
74	Testing waste pipe system		Item
<u>HOLES ETC</u>			
<u>Drilling of hole for pipe exceeding 50mm and not exceeding 100mm diameter including making good in all trades (paintwork elsewhere)</u>			
75	110mm Brick wall, etc	No	1
76	220mm Brick wall, etc	No	1
<u>SUNDRIES</u>			
<u>Cut horizontal or vertical chase in brickwork and make good</u>			
77	15mm Copper pipe	m	100
78	22mm Copper pipe	m	20

STORMWATER DRAINAGE

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<u>uPVC Class 34 pipes</u>		
79	110mm Pipes laid in trenches including excavation not exceeding 1m deep, risk of collapse, backfilling, compaction, keeping free of water and removal of excavated material not exceeding 1m deep	m 2
80	160mm Pipes laid in trenches including excavation not exceeding 1m deep, risk of collapse, backfilling, compaction, keeping free of water and removal of excavated material not exceeding 1m deep	m 2
<u>Extra over uPVC pipes for fittings</u>		
81	110mm Bend	No 1
82	110mm Access junction	No 1
83	160mm Bend	No 1
84	160mm Reducer	No 1
85	160mm Junction	No 1
86	160mm Reducing junction	No 1
<u>Gratings, covers, etc</u>		
<u>"Grating World" or similar approved</u>		
87	600 x 600mm Galvanised grated trench cover with 30 x 30 x 3mm angle iron and 40 x 40 x 3mm angle and frame	No 1
<u>Covers, etc.</u>		
88	550mm Diameter type 4 cast iron manhole cover	No 2
89	450 x 600mm x 68kg Type 9D cast iron single seal manhole cover	No 3

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Sundries

90 Clear and clean existing manhole

No

5

Testing

91 Testing drainage pipe system

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