

Item	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>RENOVATIONS AND ALTERATIONS TO EXISTING</u>			
<u>BILL NO. 1</u>			
<u>DEMOLITIONS</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Demolitions</u>			
Tenderers are advised to visit the site before submitting a tender as to satisfy themselves with the nature and extent of the work to be done for the proper completion of the work			
The submission of a tender will imply that the contractor has physically visited the site and fully understands the content and extend of the work described in this bill and no claims in this respect will be afterwards entertained			
The contractor shall completely demolish the buildings, etc in a skilful, practical and same manner			
Unless otherwise described, kitchen and other equipment, machinery, etc shall remain the property of the employer and the removal from site thereof does not fall within the scope of this contract			
Demolitions shall include breaking up and removing:			
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Any foundations (if so described);			
All external screen walls, ramps, aprons, surface water channels, rainwater sumps, gulleys, etc attached to the building to be demolished;			
All services, manholes, etc in ground to a point not less than 1m beyond the perimeter of the building including plugging off ends of all remaining pipes, drains, etc, filling in holes where necessary and ramming and levelling to ground level			
Where only a portion of a building is to be demolished, it shall be done without structural or other damage to the remaining portion of the building. Any such damage shall be made good by the contractor at his own expense			
The contractor shall, before commencing work, obtain all necessary authorisation for carrying out the work, by whatever means including the use of pneumatic equipment or blasting, give all necessary notices and pay all charges and fees in connection therewith. He shall also comply with all regulations pertaining to rodent extermination and obtain the requisite Rodent Extermination Clearance Certificate and pay all necessary fees. All receipts and certificates shall be left in the safekeeping of the principal agent. All the above-mentioned charges and fees shall be paid by the contractor and included in his prices			
The contractor shall give ample notice to the principal agent and local authorities regarding any disconnections necessary prior to the removal or interruption of electrical or telephone cables, water and sanitary services, etc			
After the handing over of the site to the contractor, the full risk of any loss or damage to the buildings to be demolished shall be the responsibility of the contractor and he shall take such precautions as he deems necessary against such loss or damage			
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Explosives

No explosives whatsoever may be used for demolition purposes unless otherwise stated

Dimensions

Measurements given are approximate and the contractor is advised to view the site and any existing structures. The contractor is to acquaint himself thoroughly in respect of the exact measurements and any errors to the tendered rates in this regard will be for the contractor's expense

General

Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent

Before and demolitions or alterations of existing buildings can take place the contractor must discuss with the school governing body the material from the demolitions or alterations that will become the property of the school. All such material agreed upon must be either be removed by the school or the contractor and handed over to the school before demolitions or alterations can start. All other material are to become the property of the contractor and are to be removed from the site

The contractor shall carry out the work with as little mess and noise possible and with a minimum of disturbance to the occupants. The contractor shall provide proper protection and provide and erect any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the Principal Agent, and remove when directed

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DEMOLITIONS

Taking down and removing fencing including removal of posts, bases, etc

1	Mesh fencing 1.8m high	m	30.24	Rate only
2	Palisade fencing 1.8m high	m	47.52	Rate only
<u>Demolish and remove</u>				
3	One brick boundary or yard walls 1.8m high including grubbing up foundations, backfilling and levelling	m	324.00	Rate only
4	Concrete aprons, 90mm thick	m2	73.44	Rate only
5	5000 Litre PVC water tank and 3m high steel stand with timber platform including grubbing up bases, removing piping, sealing off water network, backfilling and levelling	No	8 640.00	Rate only
6	Cement block walled pond structure 3m diameter x 0.4m high including grubbing up foundations, backfilling and levelling	No	2 160.00	Rate only
7	Carport approximately 241m2 on plan and 2.5m high at eaves comprising corrugated roof covering on steel columns and beams including grubbing up bases, backfilling and levelling	No	8 640.00	Rate only
8	Open walkway, 2m wide comprising pit, concrete surface bed and brick walls including grubbing up foundations, backfilling and levelling	m2	216.00	Rate only
9	Single storey pit latrine building with lean to roof approximately 9m2 on plan and 2.5m high at eaves comprising pit, concrete surface bed, one brick external walls and internal walls and corrugated roof covering on timber trusses including grubbing up foundations, backfilling and levelling	No	8 640.00	Rate only

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DEMOLITIONS

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10	Septic tank approximately 25m ² on plan and 3m deep comprising concrete surface bed and slab, one brick external walls and internal walls including cutting and sealing off piping, grubbing up foundations, backfilling and levelling	No	17 280.00	Rate only
11	Single storey corrugated iron structure with flat roof approximately 34m ² on plan and 2.5m high at eaves comprising concrete surface bed, cement block walls 1.5m high on two sides, corrugated roof covering on poles including grubbing up foundations, backfilling and levelling	No	4 320.00	Rate only
12	Single storey kitchen with flat roof approximately 22m ² on plan and 3.2m high at eaves comprising concrete surface bed, one brick external walls and corrugated roof covering on timber trusses including grubbing up foundations, backfilling and levelling	No	12 960.00	Rate only
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<u>BILL NO. 2</u>			
<u>ALTERATIONS</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>General</u>			
Making good of finishes shall be deemed to include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary			
The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)			
<u>Removal of doors, windows, frames, etc</u>			
Where doors, windows, etc are described as taken out, this shall be understood to include for removal of all beads, architraves, ironmongery, etc. Doors, windows, etc that are to be re-fixed are to be provided with new architraves			
Doors, fanlights, windows, fittings, frames, linings, etc which are to remain the property of the employer shall be carefully taken out, temporarily stored and handed over to the employer			
Carried to Collection			R Rate only
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Doors, fanlights, windows, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good to match existing

Forming new openings or altering openings in existing walls

Where new openings are formed or openings altered in existing walls, the wall above the opening shall be broken out and a new brick, in-situ or prestressed concrete lintel inserted, complete with the necessary reinforcement, formwork, turning piece, etc, the jambs and portions of openings as described shall be built up with new brickwork or blockwork properly toothed and bonded to existing, cavities of hollow walls shall be closed where necessary and finishes shall be made good all round and into reveals

Building up openings

Where existing openings are described as building up, the existing surfaces all round shall be prepared as necessary, brickwork or blockwork properly toothed and bonded to existing, wedged up to underside of existing lintel and finishes shall be made good on both sides

Cement screeds and pavings, granolithic, etc shall be levelled and prepared for the raising of brickwork

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Protection

The contractor must protect all work not removed such as walls, floors, doors, windows or other joinery, loose and fixed fittings and electrical appliances, etc, from damage during the progress of the work and provide all necessary materials for so doing

REMOVAL OF EXISTING WORKNote:

All usable material such as roof sheets, windows, etc to be handed over to the employer. All other material (except where stated for re-use) to be removed from site by the contractor

Taking up and removing precast concrete

1	60mm Thick paving blocks including levelling and compaction after removal	m2	30.24	Rate only
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Breaking down and removing brickwork etc

2	Half brick walls	m2	56.16	Rate only
3	One brick walls	m2	99.36	Rate only

Taking out and removing doors, windows, etc from brickwork to be demolished

4	Timber single door and steel frame not exceeding 2,5m2	No	103.68	Rate only
5	Steel safe door and frame not exceeding 2,5m2	No	216.00	Rate only

Taking out and removing doors from steel frames (frames to remain) including new striking plates, repairs to steel frame and preparation thereof to receive new doors

6	Timber single door not exceeding 2,5m2	No	129.60	Rate only
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7	Steel single door not exceeding 2,5m2 <u>Taking out and removing pressed steel door frames and steel/timber doors including repairs to brickwork and preparation thereof to receive new frames</u>	No	129.60	Rate only
8	Steel single door and frame not exceeding 2,5m2 <u>Taking out and removing doors, windows, etc, including thresholds, sills, etc (building up openings and making good finishes elsewhere)</u>	No	172.80	Rate only
9	Timber single door and steel frame not exceeding 2,5m2 <u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>	No	103.68	Rate only
10	Corrugated iron roof covering and timber purlins including fascias, barge boards, gutters, downpipes, etc	m2	25.92	Rate only
11	Pitched roof 24.5 x 10 x 1.9m high overall, of timber trusses and purlins, corrugated sheet steel covering, ceilings and cornices, eaves soffit covering, fascias, barge boards, gutters and rainwater pipes	No	8 640.00	Rate only
12	Fibre cement ceilings, including cornices, timber brandering, etc <u>Taking out and removing sundry joinery work, fittings, etc</u>	m2	25.92	Rate only
13	Timber skirtings	m	5.18	Rate only
14	Timber slatted seating on steel framework	m	86.40	Rate only
15	Timber wall cupboard 2000 x 300 x 600mm high <u>Taking out and removing ironmongery</u>	No	1 728.00	Rate only
16	Striking plates from steel door frames and prepare frame to receive new	No	17.28	Rate only
Carried to Collection			R	Rate only
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17	Writing boards, notice boards, white boards, etc including repairs to plaster backing where applicable	m2	17.28	Rate only
	<u>Taking out and removing steel gates from steel frames (frames to remain) or brickwork including repairs to steel frame or brickwork and preparation thereof to receive new gates</u>			
18	Steel gate and frame not exceeding 2,5m2	No	172.80	Rate only
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u>			
19	25mm Granolithic from floors	m2	34.56	Rate only
20	Internal plaster from walls and columns	m2	30.24	Rate only
21	External plaster from walls, columns and beams	m2	30.24	Rate only
	<u>Hacking up/off and removing ceramic tiles including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc</u>			
22	Tiles to floors	m2	38.88	Rate only
23	Tiles to walls	m2	38.88	Rate only
24	Tile skirtings 100mm high	m	12.96	Rate only
	<u>Taking out and removing piping, including cutting off as necessary, holderbats and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>			
25	Copper piping not exceeding 50mm internal diameter	m	17.28	Rate only
26	PVC piping not exceeding 50mm internal diameter	m	17.28	Rate only
27	PVC piping not exceeding 110mm internal diameter	m	25.92	Rate only
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	<u>Taking out and removing sanitary fittings, tanks, geysers, etc, including disconnecting from pipes, traps, etc and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>			
28	Stainless steel sink and drainer including timber cupboard 2000 x 600 x 900mm high	No	172.80	Rate only
29	Vitreous china wash hand basin	No	259.20	Rate only
30	Vitreous china WC pan with cistern and flush pipe	No	345.60	Rate only
31	Chromium plated pillar taps	No	69.12	Rate only
32	Chromium plated wall mixer	No	112.32	Rate only
	<u>Taking out and removing glass and mirrors</u>			
33	Glass from steel windows, including cleaning out rebates and preparing for new safety glass	m2	17.28	Rate only
	<u>BUILDING UP OPENINGS</u>			
	<u>Brickwork in NFP bricks in class II mortar in building up openings, including bonding new to existing and making good cement plaster on both sides (making good paintwork elsewhere)</u>			
34	Opening 900 x 2100mm high overall in half brick wall	No	475.20	Rate only
35	Opening 900 x 2100mm high overall in one brick wall	No	846.72	Rate only
	<u>PREPARATORY WORK TO EXISTING SURFACES</u>			
	<u>Repairs to cracks</u>			
36	Repairs to small cracks in walls by removing plaster 300mm wide, nail metal lath pieces over cracks and replaster	m	34.56	Rate only
	Carried to Collection		R	Rate only
	Section No. 1 RENOVATIONS AND ALTERATIONS TO EXISTING Bill No. 2 ALTERATIONS LDoE Standard Rates			

37	Repairs to large cracks in walls by removing plaster 300mm wide, epoxy fix 6mm diameter steel rods, 500mm girth (bend into staples with 100mm long ends) in pre-drilled holes in brickwork at 200mm centres, nail metal lath pieces over the area and replaster	m	129.60	Rate only
38	Repairs to large cracks in surface beds by removing concrete 50mm wide, filling gap with epoxy and fitting approved aluminium floor expansion joint cover over	m	129.60	Rate only
	<u>Preparing brickwork to receive sills</u>			
39	Hack off plaster and prepare brickwork to receive new internal window sill (sill elsewhere)	m	34.56	Rate only
40	Take out two brick courses under existing windows, insert SANS approved dampproof course, close up brickwork and prepare to receive new external window sill (sill elsewhere)	m	69.12	Rate only
	<u>MAKING GOOD OF FINISHES, ETC</u>			
	<u>Making good cement screeds</u>			
41	Floors where half brick walls removed	m	17.28	Rate only
42	Floors where one brick walls removed	m	25.92	Rate only
	<u>Making good untinted granolithic</u>			
43	25mm Thick on floors in patches	m2	95.04	Rate only
	<u>Making good internal cement plaster</u>			
44	Walls where half brick walls removed	m2	69.12	Rate only
45	Walls where one brick walls removed	m2	69.12	Rate only
46	Walls in patches	m2	69.12	Rate only
	Carried to Collection		R	Rate only
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	<u>Making good external cement plaster</u>			
47	Walls in patches	m2	69.12	Rate only
	<u>OPENINGS THROUGH EXISTING WALLS ETC</u>			
	<u>Altering plain openings through brick walls, including prestressed concrete lintels, making good cement plaster on both sides and into reveals and with 20 MPa concrete thresholds with steel trowelled finish (making good paintwork elsewhere)</u>			
48	Existing opening 800 x 2100mm high for door with steel frame 900 x 2100mm high overall through half brick wall	No	259.20	Rate only
	<u>Breaking out for and forming openings through brick walls for new doors and frames, including prestressed concrete lintels, making good cement plaster on both sides and into reveals and with 20 MPa concrete thresholds with steel trowelled finish (new doors and frames and making good paintwork elsewhere)</u>			
49	Opening for door with steel frame 900 x 2100mm high overall through half brick wall	No	518.40	Rate only
50	Opening for door with steel frame 900 x 2100mm high overall through one brick wall	No	604.80	Rate only
	<u>SUNDRIES</u>			
	<u>Wash down thoroughly with sugarsoap and remove all stains, paint marks, etc, repoint and re-mortar joints as required on existing</u>			
51	Face brick work	m2	25.92	Rate only
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Section No. 1

RENOVATIONS AND ALTERATIONS TO EXISTING

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Rate only

10

Rate only

11

Rate only

12

Rate only

13

Rate only

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Rate only**Carried Forward to Summary of Section No. 1**

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<p><u>SECTION NO. 3</u></p> <p><u>BUILDINGS</u></p> <p><u>BILL NO.1</u></p> <p><u>FOUNDATIONS (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground</u></p> <p>A soils investigation has been carried out on the site and the report is available from the principal agent. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as "earth". All very hard unweathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"</p> <p>"Soft rock" shall mean hard material, the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact oukclip and material of similar hardness</p> <p>"Earth" shall mean all ground other than that classified as "hard rock" or "soft rock" and shall include made-up ground and any loose stones, pebbles or pieces of concrete not exceeding 0,03m³ in volume</p>			
<p>Carried to Collection</p>		R	Rate only
<p>Section No. 2 NEW BUILDINGS Bill No. 1 FOUNDATIONS LDoE Standard Rates</p>			

Subterranean water

No subterranean water is expected

The water table is expected to vary between approximately 3m and 10m below natural ground level. The removal of subterranean water is given separately

Carting away of excavated material

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

Filling and layer work materials

References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter

Samples of potential fill material obtained from excavations, trench excavations, etc are to be submitted to and approved by the engineer prior the re-use thereof as "filling"

All filling obtained from a commercial source should comply to minimum G5 standard

Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported from an approved commercial source

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Filling in general shall be compacted to the prescribed percentage Mod AASHTO density

Cleaning-up of disturbed areas

The contractor will be liable to, upon completion, rehabilitate all those areas of the site used for spoiling, mixing of concrete or any other disturbances caused to the site by the contractor by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the principal agent

EXCAVATIONS, ETC

Excavation in earth not exceeding 2m deep

1	Trenches	m3	77.76	Rate only
2	Pits	m3	77.76	Rate only
<u>Extra over trench and hole excavations in earth for excavation in</u>				
3	Soft rock	m3	267.84	Rate only
4	Hard rock	m3	596.16	Rate only
<u>Risk of collapse of excavations</u>				
5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	4.32	Rate only
6	Sides of pit excavations not exceeding 1,5m deep	m2	4.32	Rate only
<u>Extra over all excavations for carting away</u>				
7	Surplus material from excavations and/or stockpiles on site to a dumping site to be located by the contractor	m3	56.16	Rate only

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	Soil insecticide in accordance with SANS 5859			
15	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m ²	10.37	Rate only
16	To bottoms and sides of trenches etc	m ²	10.37	Rate only
17	To bottoms and sides of pits etc	m ²	10.37	Rate only
	<u>TESTS</u>			
	<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>			
18	"Modified AASHTO Density" test	No	345.60	Rate only
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25MPa/19mm concrete</u>			
19	Strip footings	m ³	1 900.80	Rate only
20	Pit surface beds	m ³	1 900.80	Rate only
21	Extra over pit surface beds for thickening size 80mm deep, 545mm top and tapering to 460mm at bottom including all excavation to 80mm, backfilling, etc	m	129.60	Rate only
	<u>TEST CUBES</u>			
	<u>Concrete strength test cubes</u>			
22	Making and testing a set of three 150 x 150 x 150mm concrete strength test cubes	Sets	345.60	Rate only
	<u>CONCRETE SUNDRIES</u>			
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	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
23	Pit surface beds	m2	16.42	Rate only
	<u>MOVEMENT JOINTS ETC</u>			
	<u>Expansion joints with 10mm bitumen impregnated softboard between vertical concrete surfaces, including necessary formwork</u>			
24	Not exceeding 300mm high through foundations	m	34.56	Rate only
	<u>REINFORCEMENT</u>			
	<u>Mild steel reinforcement to structural concrete work</u>			
25	8mm Diameter bars	t	16 416.00	Rate only
	<u>High tensile steel reinforcement to structural concrete work</u>			
26	12mm Diameter bars	t	16 416.00	Rate only
	<u>Fabric reinforcement</u>			
27	Type 193 fabric reinforcement in pit surface beds etc	m2	64.80	Rate only
	<u>BRICKWORK IN FOUNDATIONS</u>			
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>			
28	Half brick walls	m2	224.64	Rate only
29	One brick walls	m2	449.28	Rate only
30	One brick pit walls	m2	449.28	Rate only
31	Horizontal projecting bands band one course high and 110mm projection	m	64.80	Rate only
	Carried to Collection		R	Rate only
	Section No. 2 NEW BUILDINGS Bill No. 1 FOUNDATIONS LDoE Standard Rates			

BRICKWORK SUNDRIESJoint forming material in movement joints

32	10mm Bitumen impregnated softboard built in vertically between brick skins	m2	95.04	Rate only
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2,5mm Brickwork reinforcement

33	75mm Wide reinforcement built in horizontally	m	2.59	Rate only
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34	150mm Wide reinforcement built in horizontally	m	2.59	Rate only
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35	150mm Wide reinforcement built in horizontally in pit walls	m	2.59	Rate only
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FACE BRICKWORK"Corobrik Middelwit Fynbos Geel" face bricks pointed with recessed horizontal and vertical joints

36	Extra over brickwork for face brickwork	m2	138.24	Rate only
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"Corobrik Middelwit Fynbos Geel" brick-on-edge header course copings, sills, etc pointed with recessed joints on all exposed faces

37	220mm Wide copings on top of one brick wall	m	95.04	Rate only
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WATERSTOPS, SEALING STRIPS, JOINT SEALANTS, ETCTwo part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc

38	10 x 20mm In expansion joints in walls including raking out expansion joint filler as necessary	m	21.60	Rate only
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INTERNAL PLASTER**Carried to Collection****R Rate only**

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39	<u>Cement plaster wood floated, on brickwork</u> On pit walls	m2	69.12	Rate only
<u>PAINTWORK ON INTERNAL FLOATED PLASTER SURFACES</u>				
40	<u>Two coats approved black epoxy paint</u> On pit walls	m2	77.76	Rate only
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<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Concrete general</u>			
Surface beds cast in panels shall be cast in panels not exceeding 20m ²			
All reinforced concrete is to be compacted with a mechanical vibrator			
<u>Cost of tests</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 for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately)			
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Formwork

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

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

Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described

Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described

Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"

Fabric reinforcement

Standard welded steel fabric reinforcement shall be as included in Table 1 of SANS 1024 and shall have 300mm wide laps

REINFORCED CONCRETE CAST ON/IN FORMWORK**Carried to Collection**

R

Rate only

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CONCRETE, FORMWORK & REINFORCEMENT
LDoE Standard Rates

	<u>25MPa/19mm concrete</u>			
1	Surface beds cast in panels on waterproofing	m3	1 900.80	Rate only
2	Walkway surface beds cast in panels on waterproofing	m3	1 900.80	Rate only
3	Cover slabs	m3	1 900.80	Rate only
4	Slabs	m3	1 900.80	Rate only
5	Pit slabs	m3	1 900.80	Rate only
	<u>TEST CUBES</u>			
	<u>Concrete strength test cubes</u>			
6	Making and testing a set of three 150 x 150 x 150mm concrete strength test cubes	Sets	345.60	Rate only
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
7	Surface beds, etc	m2	16.42	Rate only
8	Walkway surface beds, etc to falls	m2	16.42	Rate only
9	Cover slabs to falls	m2	16.42	Rate only
10	Slabs	m2	16.42	Rate only
11	Pit slabs	m2	16.42	Rate only
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>			
	<u>Rough formwork to sides</u>			
12	Edges of cover slabs not exceeding 300mm high or wide	m	95.04	Rate only
	Carried to Collection		R	Rate only
	Section No. 2 NEW BUILDINGS Bill No. 2 CONCRETE, FORMWORK & REINFORCEMENT LDoE Standard Rates			

13	Edges of slabs not exceeding 300mm high or wide	m	95.04	Rate only
14	Edges of pit slabs not exceeding 300mm high or wide	m	95.04	Rate only
	<u>Rough formwork to soffits</u>			
15	Cover slabs propped up exceeding 1.5m and not exceeding 3m high	m2	328.32	Rate only
16	Slabs propped up exceeding 1.5m and not exceeding 3m high	m2	328.32	Rate only
	<u>PERMANENT FORMWORK</u>			
	<u>Permanent formwork left in place formed of 0,6mm corrugated sheeting supported by carbolineum treated gumpoles to the satisfaction of the Principal Agent to soffits</u>			
17	Slabs for pit propped up not exceeding 1,5m high	m2	388.80	Rate only
	<u>Rough formwork to form</u>			
18	500mm Diameter opening through 85mm thick slab	No	691.20	Rate only
	<u>MOVEMENT JOINTS ETC</u>			
	<u>Two layers of 375 micron dampproof course in slip joints between horizontal concrete and brick surfaces including cement mortar bed</u>			
19	Not exceeding 300mm wide	m	103.68	Rate only
	<u>Expansion joints with 10mm bitumen impregnated softboard between vertical concrete and brick surfaces</u>			
20	Not exceeding 300mm high to edges of surface beds	m	34.56	Rate only
	<u>Saw-cut joints</u>			
21	5 x 35mm Saw-cut joints in top of concrete	m	21.60	Rate only
Carried to Collection			R	Rate only
Section No. 2 NEW BUILDINGS Bill No. 2 CONCRETE, FORMWORK & REINFORCEMENT LDoE Standard Rates				

	<u>Vertical construction joints through concrete including thick cement slurry to one face</u>			
22	Surface beds not exceeding 300mm high	m	34.56	Rate only
	<u>DIVIDING STRIPS, ETC.</u>			
23	50 x 50 x 4mm Angle section step guard cast into concrete with 3 x 6mm anchors	m	475.20	Rate only
	<u>REINFORCEMENT</u>			
	<u>Mild steel reinforcement to structural concrete work</u>			
24	8mm Diameter bars	t	16 416.00	Rate only
	<u>High tensile steel reinforcement to structural concrete work</u>			
25	12mm Diameter bars	t	16 416.00	Rate only
	<u>Mesh reinforcement</u>			
26	Type 193 fabric reinforcement in concrete surface beds, etc	m2	64.80	Rate only
27	Type 193 fabric reinforcement in concrete walkway surface beds, etc	m2	64.80	Rate only
28	Type 395 fabric reinforcement in concrete bench slabs, cover slabs etc	m2	73.44	Rate only
29	Type 395 fabric reinforcement in concrete pit slabs, etc	m2	73.44	Rate only
	Carried to Collection		R	Rate only
	Section No. 2 NEW BUILDINGS Bill No. 2 CONCRETE, FORMWORK & REINFORCEMENT LDoE Standard Rates			

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Item	Quantity	Rate	Amount
<u>SECTION NO. 3</u>			
<u>BILL NO. 3</u>			
<u>MASONRY</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Sizes in descriptions</u>			
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
<u>Brickwork</u>			
Brickwork shall be carried up in a uniform manner, no part being raised more than 1.2m above adjoining work			
<u>Face bricks</u>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
All cutting to face bricks must be done by cutting saw and prices to include for the use of mechanical cutting saws			
Carried to Collection			R Rate only
Section No. 2 NEW BUILDINGS Bill No. 3 MASONRY LDoE Standard Rates			

Pointing

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

Precast concrete paving

Paving is to be laid in accordance with SABS 1200 MJ, SABS 1058 and the Concrete Masonry Association's specifications

Paving is to be laid to herringbone pattern on and including 25mm (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere)

Clean sand is to be swept into joints between roadstones

SUPERSTRUCTUREBrickwork of NFP bricks in class II mortar

1	Piers	m3	2 419.20	Rate only
2	Piers	m3	1 641.60	Rate only
3	Half brick walls	m2	224.64	Rate only
4	One brick walls	m2	449.28	Rate only
5	One brick walls in firewalls	m2	449.28	Rate only

Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar in loadbearing walls etc

6	One brick walls	m2	449.28	Rate only
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BRICKWORK SUNDRIES**Carried to Collection****R Rate only**

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NEW BUILDINGS
Bill No. 3
MASONRY
LDoE Standard Rates

	<u>Joint forming material in movement joints</u>			
7	10mm Bitumen impregnated fibre board built in vertically between brick skins	m2	95.04	Rate only
	<u>Steel bar reinforcement</u>			
8	6mm Diameter mild steel bars built in horizontally	t	16 416.00	Rate only
	<u>2,5mm Brickwork reinforcement</u>			
9	75mm Wide reinforcement built in horizontally	m	2.59	Rate only
10	150mm Wide reinforcement built in horizontally	m	2.59	Rate only
	<u>Prestressed fabricated concrete lintels including necessary temporary supports</u>			
11	110 x 75mm Lintels in lengths not exceeding 3m	m	56.16	Rate only
	<u>Turning pieces to lintels etc</u>			
12	110mm Wide turning pieces	m	47.52	Rate only
13	230mm Wide turning pieces	m	56.16	Rate only
	<u>Galvanised wire ties etc</u>			
14	4mm Diameter roof tie 2m girth bent double with one end built into brickwork and other end fixed to timber	No	7.78	Rate only
	<u>FACE BRICKWORK</u>			
	<u>"Corobrik Middelwit Fynbos Geel" face bricks pointed with recessed horizontal and vertical joints</u>			
15	Extra over brickwork for face brickwork	m2	138.24	Rate only
16	Extra over brickwork for internal face brickwork	m2	138.24	Rate only
17	Extra over brickwork to piers and pilasters for face brickwork	m2	138.24	Rate only
	Carried to Collection		R	Rate only
	Section No. 2 NEW BUILDINGS Bill No. 3 MASONRY LDoE Standard Rates			

18	Extra over brickwork for brick-on-edge header course lintels pointed on all exposed faces	m	95.04	Rate only
19	Half brick wall in beamfilling	m2	362.88	Rate only
20	Half brick walls pointed on one side	m2	362.88	Rate only
21	Half brick walls pointed on both sides	m2	397.44	Rate only
22	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	38.88	Rate only
	<u>"Corobrik Middelwit Fynbos Geel" brick-on-edge header course copings, sills, etc pointed with recessed joints on all exposed faces</u>			
23	220mm Copings on top of one brick walls	m	95.04	Rate only
24	110mm Wide sills set level and slightly protecting	m	95.04	Rate only
25	220mm Wide sills set sloping and slightly protecting	m	95.04	Rate only
	<u>FIBRE-CEMENT WINDOW SILLS</u>			
	<u>Natural grey sills in single lengths bedded in class II mortar including metal fixing lugs etc</u>			
26	15 x 150mm Wide sills set level and slightly projecting	m	108.00	Rate only
Carried to Collection			R	Rate only
Section No. 2 NEW BUILDINGS Bill No. 3 MASONRY LDoE Standard Rates				

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Bill No. 3

MASONRY

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NEW BUILDINGS

Bill No. 3

MASONRY

LDoE Standard Rates

	<u>One layer 4mm special polyester fully bonded waterproof membrane comprising a matrix modified with polypropylene dual reinforced with non-woven polyester cloth and glass fibre tissue, laid with 75mm side and 100mm end laps</u>			
3	On flat roofs including up or down turns	m2	475.20	Rate only
	<u>Two coats bituminous aluminium paint</u>			
4	On waterproofing to roofs	m2	69.12	Rate only
	<u>WATERSTOPS, SEALING STRIPS, JOINT SEALANTS, ETC</u>			
	<u>Silicone sealing compound including backing cord, bond breaker, primer, etc</u>			
5	5 x 30mm In saw-cut joints in floors	m	12.96	Rate only
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
6	10 x 20mm In expansion joints in floors, including raking out expansion joint filler as necessary	m	21.60	Rate only
7	10 x 20mm In expansion joints in walls, including raking out expansion joint filler as necessary	m	21.60	Rate only
Carried to Collection			R	Rate only
Section No. 2 NEW BUILDINGS Bill No. 4 WATERPROOFING LDoE Standard Rates				

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NEW BUILDINGS

Bill No. 4

WATERPROOFING

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WATERPROOFING
LDoE Standard Rates

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<u>SECTION NO. 3</u>			
<u>BILL NO. 5</u>			
<u>ROOF COVERINGS ETC</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Profiled metal sheeting and accessories</u>			
Roof sheets shall be fixed to every purlin by means of patented KL700 clips and Class 3 fasteners. Flashings shall be fixed by way of patented S10 brackets (sliding brackets where roof sheets are 30m or longer), in strict accordance with the manufacturer's specifications by an approved sub-contractor. A written and approved five-year guarantee of water-tightness shall be issued after approval of the roofs by the manufacturer			
Prices to include for all cutting and waste and relevant fixing material, unless otherwise described			
Sheet metal flashings shall have minimum 100mm laps and linings to valleys, etc minimum 225mm laps			
All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable			
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
Carried to Collection			R Rate only
Section No. 2 NEW BUILDINGS Bill No. 5 ROOF COVERINGS, ETC LDoE Standard Rates			

	<u>0,5mm "Global Roofing Solutions Klip-Tite" Z275 (Light Industrial) galvanised troughed sheet steel complying with ISQ 550 (3T) (A653) with a "Chromadek" finish to one side and standard backing coat, Pebble Grey to other, fixed to timber purlins or rails</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	250.56	Rate only
	<u>0,58mm Z275 spelter galvanised steel sheet accessories iron with "Chromadek" finish to one side with a Pebble Grey backing coat to preceding roof covering</u>			
2	Standard type FK7 counter flashing	m	116.64	Rate only
3	Standard type FK7 counter flashing, including fixing and sealing top edge of flashing against bottom jamb of louvre (louvre elsewhere)	m	116.64	Rate only
4	Standard type FK3 ridge or hip flashing	m	155.52	Rate only
5	Standard type FK8 headwall flashing	m	129.60	Rate only
6	Standard type FK13 barge or gable flashing	m	129.60	Rate only
7	Purpose made valley gutter, 450mm girth	m	164.16	Rate only
	<u>Sundries</u>			
8	Leave or form 320mm diameter hole through roof covering for ventilation pipe of "Enviro Loo" toilet unit ("Enviro Loo" toilet unit elsewhere), including flashing all round and leaving watertight	No	475.20	Rate only
Carried to Collection			R	Rate only
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NEW BUILDINGS

Bill No. 5

ROOF COVERINGS, ETC

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NEW BUILDINGS

Bill No. 5

ROOF COVERINGS, ETC

LDoE Standard Rates

Item	Quantity	Rate	Amount
<u>SECTION NO. 3</u>			
<u>BILL NO. 6</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at maximum 600mm centres, and where described as "bolted" the bolts have been given elsewhere			
<u>Decorative thermosetting plastic laminate covering</u>			
Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish			
Decorative laminate finishes shall be glued under pressure			
<u>Hardwoods</u>			
All hardwoods shall be specially selected, well seasoned, free from sapwood and kiln dried. Meranti shall be red or medium brown meranti, even in grain and colour			
Carried to Collection		R	Rate only
Section No. 2 NEW BUILDINGS Bill No. 6 CARPENTRY AND JOINERY LDoE Standard Rates			

Sealing of all abutments

All cupboards, counter tops, shelves, etc. abutting walls, tiled surfaces, etc. to be sealed watertight with an approved silicon sealant along all joints

**PLATE NAILED TIMBER ROOF TRUSS
CONSTRUCTION ETC**

Supplementary preambles for plate nailed timber roof construction

The design, manufacturing and installation of the complete prefabricated timber roof construction to be executed by an approved firm of specialists, under a written guarantee, which shall lodge the design with the principal agent for approval before the work commence

All trusses shall be fabricated by an approved truss manufacturer who holds a current Certificate of Competence awarded by the Institute for Timber Construction

Trusses should be handled and erected in accordance with SANS 10243

Timber for trusses to be South African softwood and shall be in accordance with the grades as defined in SANS Specification No 563 or as defined in SANS Specification No 1460

Bolts shall be in accordance with BS 4190 or SANS 135

Shear plates, tooth connectors and split rings shall be in accordance with BSS 1759 : 1960 and installed in accordance with the CSIR Publication HOUT 468, "The Design, Manufacturing and Erection of Timber Trusses"

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Rate only

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NEW BUILDINGS
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CARPENTRY AND JOINERY
LDoE Standard Rates

Metal connector plates shall be fabricated out of not less than 1mm thick drawn quality galvanised steel

The steel shall have a minimum yield strength of 228MPa and a minimum ultimate tensile strength of 330MPa. The corrosion resisting coating shall be not less than 275g/m² commercial class hot dipped galvanising as per SANS 934 before stamping

All connector plates shall have been tested by the CSIR and be of a size capable of transmitting the forces between members of a truss without exceeding the design values published in the CSIR report

Where metal connector plates are used all joints are to be close fitted butt joints made by precision pressing of the metal connector plates into each side of the joint

Trusses shall be constructed in jigs specially designed to ensure the correct profile, overhangs and cambers

All trusses shall be designed by a registered Professional Engineer in accordance with SANS 0163 ("Design of Timber Structures") and Code 0160 ("Loadings")

It will be expected from the contractor to timeously prepare, submit and obtain the necessary approvals from the principal agent in respect of the required shop drawings, design and erection guarantee certificates as specified

All trusses are to be hoisted and erected strictly in accordance with the procedures and recommendations of the manual "The Erection and Bracing of Timber roof Trusses" as published by the Institute for Timber Construction and the CSIR, or the SABS Code of Practice "The Design, Manufacture and Erection of Timber Roof Trusses", or as designed and detailed by the engineer

Carried to Collection

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Rate only

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LDoE Standard Rates

All purlins must be properly nailed to roof trusses and thereafter secured to rafters with 2mm thick galvanised wire ties wrapped around rafter with ends tied together and prices for trusses to include therefor

Tendered rates to include for the design and manufacturing of the complete timber roof construction (including all wall plates, purlins, battens, bracing, connections, etc as may be required), transport, loading and unloading, storing under cover and protecting from the weather, hoisting and fixing in position all elements and necessary supervision

Unless otherwise described, the following specifications will apply:

All trusses to be with a 20° pitch at approximately 1100mm centres. Trusses shall be designed for a live load of 0.50 kN/m² and the dead load consists of 0.5mm thick "Klip-Tite" galvanised troughed sheet steel roof covering on 50 x 76mm purlins at maximum 1200mm centres, 6mm nutec-cement nailed-up ceilings on 38 x 38mm bracing at 400mm centres and 100mm thick fibre insulation blanket laid on top of ceilings

Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences

Allow for the preparation and submission of the following documents in respect of all buildings

- 1 Detailed shop drawings indicating truss sizes, truss positions, bracings, details, etc. to be submitted for approval prior the commencement of any fabrication
- 2 Design certificate indicating the licensed programme used, SANS specifications adhered to, general procedures and loadings adopted, sizes and grading of timber components, details, etc.

Item

Rate only

Item

Rate only**Carried to Collection**

R

Rate only

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LDoE Standard Rates

3	Erection guarantee certificate after the whole completed roof truss structure have been inspected, all defective work have been taken out and made good, etc. to the full satisfaction of the Principal Agent			
	<u>The following in pre-fabricated roof trusses manufactured from "CCA Tanalith" pre-treated wrought softwood</u>			
4	Roof construction to double pitched roof with two hipped ends for ablution block (approximately 22m2 roof covering area measured on slope) supplied and erected complete in position including all necessary bracing, gangboarding, purlins, splayed eaves purlins, wall plates, etc	No	12 960.00	Rate only
5	Roof construction to double pitched roof with two hipped ends for nutrition block (approximately 253m2 roof covering area measured on slope) supplied and erected complete in position including all necessary bracing, gangboarding, purlins, splayed eaves purlins, wall plates, etc	No	76 896.00	Rate only
6	Roof construction to double pitched roof with two hipped ends for guard house (approximately 18m2 roof covering area measured on slope) supplied and erected complete in position including all necessary bracing, gangboarding, purlins, splayed eaves purlins, wall plates, etc	No	8 640.00	Rate only
7	Roof construction to double pitched roof with four hipped ends and four valleys for administration block (approximately 385m2 roof covering area measured on slope) supplied and erected complete in position including all necessary bracing, gangboarding, purlins, splayed eaves purlins, wall plates, etc	No	116 640.00	Rate only
Carried to Collection			R	Rate only
Section No. 2 NEW BUILDINGS Bill No. 6 CARPENTRY AND JOINERY LDoE Standard Rates				

8	Roof construction to double pitched roof with two hipped ends for 4-classroom block (approximately 404m ² roof covering area measured on slope) supplied and erected complete in position including all necessary bracing, gangboarding, purlins, splayed eaves purlins, wall plates, etc	No	121 824.00	Rate only
	<u>Wrought laminated SA Pine</u>			
9	50 x 228mm Bearers bolted	m	276.48	Rate only
10	50 x 228mm Bearers bolted	m	224.64	Rate only
	<u>Sundries</u>			
11	Two coats carbolineum on sawn timbers	m ²	21.60	Rate only
	<u>EAVES, VERGES, ETC</u>			
	<u>High density plain fibre-cement fascias and barge boards</u>			
12	10 x 225mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	64.80	Rate only
	<u>SKIRTINGS</u>			
	<u>Wrought meranti</u>			
13	19 x 76mm Skirting including 19mm quarter round nailed	m	44.93	Rate only
	<u>DOORS, ETC</u>			
Carried to Collection			R	Rate only
Section No. 2 NEW BUILDINGS Bill No. 6 CARPENTRY AND JOINERY LDoE Standard Rates				

	<u>Wrought meranti doors, hung to steel frames</u> <u>(Exposure Class 1)</u>			
14	40mm Framed batten door 914 x 2032mm high of 40 x 150mm top rail and stiles, 18 x 150mm middle ledge and braces and 40 x 220mm bottom rail, filled in with 18mm V-jointed one side boarding and covered on other side with 4mm plywood with veneer to match door, let into and including rebates all round	No	1 555.20	Rate only
15	40mm Framed batten double door 1511 x 2032mm high overall in two equal leaves with rebated meeting stiles, each leaf of 40 x 150mm top rail and stiles, 18 x 150mm middle ledge and braces and 40 x 220mm bottom rail, filled in with 18mm V-jointed one side boarding and covered on other side with 4mm plywood with veneer to match door, let into and including rebates all round including weather board	No	3 110.40	Rate only
	<u>"Doors Direct" semi-solid flush doors with 3,2mm prime-coated finished white hardboard covering on both sides, hung to steel frames</u>			
16	40mm Door 813 x 2032mm high	No	648.00	Rate only
17	40mm Door 914 x 2032mm high	No	648.00	Rate only
	<u>"Pella Prince" vinyl folding doors including sliding gear, ironmongery, etc</u>			
18	Single door for opening 1.2 x 1.2m high fixed to timber frame (frame elsewhere)	No	4 752.00	Rate only
	<u>FRAMED FRAMES, MULLIONS, TRANSOMS, ETC</u>			
	<u>Wrought meranti</u>			
19	75 x 120mm Rebated and splayed frames plugged	m	207.36	Rate only
20	19 x 270mm Window sill with four labours plugged	m	263.52	Rate only
	Carried to Collection		R	Rate only
	Section No. 2 NEW BUILDINGS Bill No. 6 CARPENTRY AND JOINERY LDoE Standard Rates			

SHELVING**ADJUSTABLE SHELVING**Laminated S.A. Pine shelving

21	22mm Thick shelves, 305mm wide, screwed from underside to steel brackets (brackets elsewhere)	m	108.00	Rate only
22	22mm Thick shelves, 457mm wide, screwed from underside to steel brackets (brackets elsewhere)	m	155.52	Rate only

FREE STANDING FLOOR MOUNTED BENCHESGeneral notes on free standing benches

Frames for seating (and back rests where applicable) to be of 25 x 25 x 1.6mm powder coated square hollow section framework with adjustable levellers fitted to bottom legs. Legs to be bolted to floor with two 10mm x 75mm long anchor bolts after levelling. Steel framework to be at maximum 750mm centres supported by 20 x 2mm flat bar cross braces

Seating (and back rests) to be provided with five rows of 20 x 70mm wrought saligna slats with rounded top edges at 95mm centres screwed from underside to steel framework. All back rests to be provided with 20 x 50mm wrought saligna top rail with rounded front edge, screwed from underside to steel framework. All slats and rails to be finished off with three coats approved matt varnish

The following benches 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, glueing, blocking, planting on and screwing with countersunk screws, metalwork, paint or varnish finishes, etc

Carried to Collection**R Rate only**

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The following floor benches are given as complete units i.e. the components of the units have not been given separately. Descriptions of such units shall, therefore, be deemed to include all components, assembling, housing, notching, glueing, blocking, planting-on and screwing with countersunk screws, hardwood slats, ironmongery, metalwork, paint or varnish finishes, etc

FLOOR MOUNTED WALL BENCHES IN WAITING AREA OF ADMINISTRATION

"Cupboard Connections" or similar approved

23	Type SFFM floor mounted benches without backrests	m	1 036.80	Rate only
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FREE STANDING FLOOR MOUNTED BENCHES AND TABLES

General notes on free standing benches and tables

Steel framework for seating and tables are measured elsewhere

All slats and tops to be provided with rounded leading edges and screwed from underside to steel framework. All slats and tops to be finished off with three coats approved matt varnish

FLOOR MOUNTED BENCHES AND TABLES IN NUTRITION

Wrought saligna

24	Slatted shelving, seats, etc of 20 x 92mm wide slats at 107mm centres (steel framework elsewhere)	m2	466.56	Rate only
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Laminated saligna

25	32mm Thick tops, 900mm wide with rounded leading edges	m	1 036.80	Rate only
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Carried to Collection

R **Rate only**

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LDoE Standard Rates

FLOOR AND WALL CUPBOARDSGeneral notes on floor and wall cupboards

Interior carcasses, shelves, bottoms, etc to be 16mm thick interior grade particle board with white "Melamine" decorative thermosetting plastic laminate to all exposed surfaces. Carcasses to be fitted at back with 6mm thick white tempered hardboard backing

All exposed parts of carcasses, sides, etc to be 16mm thick interior grade particle board with "Vancouver Maple Melamine" decorative thermosetting plastic laminate to all exposed surfaces

Kickplates to be 16mm thick interior grade particle board with "Vancouver Maple Renolit" decorative thermosetting plastic laminate to all exposed surfaces

Doors to be 16mm thick interior grade particle board with two long postformed vertical edges with "Vancouver Maple Renolit" decorative thermosetting laminate on all surfaces

Hinges to be "Hettich" type and drawer runners to be of 500mm long metal telescopic type. All units to supplied and installed complete with approved handles, hinges and other ironmongery

The following cupboard fittings are given as complete units i.e. the components of the units have not been given separately. Descriptions of such units shall, therefore, be deemed to include all components, assembling, housing, notching, glueing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or varnish finishes, etc (tops are measured separately)

Prices are to include for all necessary filler pieces against walls etc

Carried to Collection

R

Rate only

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CARPENTRY AND JOINERY
LDoE Standard Rates

KITCHEN CUPBOARDS IN PREP AREA OF NUTRITION"Cupboard Connections" or similar approved

26	Floor cupboard type F750, 750 x 550 x 880mm high with sides, bottom, division, shelf, back and one hinged door	No	2 332.80	Rate only
27	Floor cupboard type F900, 900 x 550 x 880mm high with sides, bottom, division, shelf, back and two hinged doors	No	2 721.60	Rate only
28	Floor cupboard type F1200, 1200 x 550 x 880mm high with sides, bottom, division, shelf, back and two hinged doors	No	3 628.80	Rate only
29	Floor drawer cupboard type F450/4, 450 x 550 x 880mm high with sides, bottom, division, shelf, back, dividing framework and four drawers	No	2 764.80	Rate only
<u>Laminated saligna</u>				
30	32mm Thick tops, 600mm wide with rounded leading edges	m	691.20	Rate only

KITCHEN CUPBOARDS IN KITCHEN OF ADMINISTRATION"Cupboard Connections" or similar approved

31	Wall cupboard type W450, 450 x 300 x 600mm high with top, sides, bottom, shelf, back and one hinged door	No	777.60	Rate only
32	Wall cupboard type W900, 900 x 300 x 600mm high with top, sides, bottom, shelf, back and two hinged doors	No	1 209.60	Rate only
33	Wall cupboard type W600 MICRO, 600 x 300 x 450mm high with top, sides and bottom	No	1 036.80	Rate only

Carried to Collection

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Rate only

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34	Floor cupboard type F600, 600 x 550 x 880mm high with sides, bottom, division, shelf, back and one hinged door	No	1 814.40	Rate only
35	Floor cupboard type F900, 900 x 550 x 880mm high with sides, bottom, division, shelf, back and two hinged doors	No	2 721.60	Rate only
36	Sink floor cupboard type F900, 900 x 550 x 880mm high with sides, bottom, divisions, shelf, back and two hinged doors (sink elsewhere)	No	2 721.60	Rate only
37	Floor corner cupboard type FCU900, 1800mm overall x 550 x 880mm high with sides, bottom, division, shelf, back and one folding hinged door	No	3 628.80	Rate only
38	Floor drawer cupboard type F450/4, 450 x 550 x 880mm high with sides, bottom, division, shelf, back, dividing framework and four drawers	No	2 764.80	Rate only
	<u>Water resistant particle board with 1mm "Vancouver Maple Formica" decorative thermosetting plastic laminate on one side and balancing plastic laminate on other side</u>			
39	32mm Thick tops, 600mm wide with one long postform "90 degrees Delta" profile leading edge	m	216.00	Rate only
40	Leave or form hole in 32mm thick top for single bowl sink (sink elsewhere)	No	302.40	Rate only
	<u>CUPBOARDS IN GENERAL OFFICE OF ADMINISTRATION</u>			
	<u>"Cupboard Connections" or similar approved</u>			
41	Wall cupboard type HW900, 900 x 300 x 1080mm high with top, sides, bottom, shelves, back and two hinged doors	No	1 555.20	Rate only
Carried to Collection			R	Rate only
Section No. 2 NEW BUILDINGS Bill No. 6 CARPENTRY AND JOINERY LDoE Standard Rates				

42	Wall cupboard type HW600 GLASS, 600 x 300 x 1080mm high with top, sides, bottom, shelves, back and one glass panelled hinged door	No	1 382.40	Rate only
43	Wall cupboard type HW900 GLASS, 900 x 300 x 1080mm high with top, sides, bottom, shelves, back and two glass panelled hinged doors	No	1 814.40	Rate only
44	Floor drawer cupboard type F600/4, 600 x 550 x 880mm high with sides, bottom, division, shelf, back, dividing framework and four drawers	No	3 024.00	Rate only
45	Floor cupboard type F900, 900 x 550 x 880mm high with sides, bottom, division, shelf, back and two hinged doors	No	2 721.60	Rate only
	<u>Water resistant particle board with 1mm "Vancouver Maple Formica" decorative thermosetting plastic laminate on one side and balancing plastic laminate on other side</u>			
46	32mm Thick tops, 600mm wide with one long postform "90 degrees Delta" profile leading edge	m	216.00	Rate only
	<u>CUPBOARDS IN PRINCIPAL'S OFFICE IN ADMINISTRATION</u>			
	<u>"Cupboard Connections" or similar approved</u>			
47	Floor cupboard type F600, 600 x 550 x 880mm high with sides, bottom, division, shelf, back and one hinged door	No	1 814.40	Rate only
48	Floor cupboard type F900, 900 x 550 x 880mm high with sides, bottom, division, shelf, back and two hinged doors	No	2 721.60	Rate only
49	Floor drawer cupboard type F600/4, 600 x 550 x 880mm high with sides, bottom, division, shelf, back, dividing framework and four drawers	No	3 024.00	Rate only
Carried to Collection			R	Rate only
Section No. 2 NEW BUILDINGS Bill No. 6 CARPENTRY AND JOINERY LDoE Standard Rates				

	<u>Water resistant particle board with 1mm "Vancouver Maple Formica" decorative thermosetting plastic laminate on one side and balancing plastic laminate on other side</u>			
50	32mm Thick tops, 600mm wide with one long postform "90 degrees Delta" profile leading edge	m	216.00	Rate only
	<u>CUPBOARDS IN VICE PRINCIPAL'S OFFICE IN ADMINISTRATION</u>			
	<u>"Cupboard Connections" or similar approved</u>			
51	Floor cupboard type F600, 600 x 550 x 880mm high with sides, bottom, division, shelf, back and one hinged door	No	1 814.40	Rate only
52	Floor cupboard type F900, 900 x 550 x 880mm high with sides, bottom, division, shelf, back and two hinged doors	No	2 721.60	Rate only
53	Floor drawer cupboard type F600/4, 600 x 550 x 880mm high with sides, bottom, division, shelf, back, dividing framework and four drawers	No	3 024.00	Rate only
	<u>Water resistant particle board with 1mm "Vancouver Maple Formica" decorative thermosetting plastic laminate on one side and balancing plastic laminate on other side</u>			
54	32mm Thick tops, 600mm wide with one long postform "90 degrees Delta" profile leading edge	m	216.00	Rate only
	<u>CUPBOARDS IN PRINTING ROOM IN ADMINISTRATION</u>			
	<u>"Cupboard Connections" or similar approved</u>			
55	Floor cupboard type F900, 900 x 550 x 880mm high with sides, bottom, division, shelf, back and two hinged doors	No	2 721.60	Rate only
	Carried to Collection		R	Rate only
	Section No. 2 NEW BUILDINGS Bill No. 6 CARPENTRY AND JOINERY LDoE Standard Rates			

56	Floor cupboard type F900, 900 x 550 x 880mm high with sides, bottom, division and shelf (no doors)	No	2 721.60	Rate only
	<u>Water resistant particle board with 1mm "Vancouver Maple Formica" decorative thermosetting plastic laminate on one side and balancing plastic laminate on other side</u>			
57	32mm Thick tops, 600mm wide with one long postform "90 degrees Delta" profile leading edge	m	216.00	Rate only
	<u>CUPBOARDS IN RECEPTION IN ADMINISTRATION</u>			
	<u>"Cupboard Connections" or similar approved</u>			
58	Floor drawer cupboard type F600/4, 600 x 550 x 880mm high with sides, bottom, division, shelf, back, dividing framework and four drawers	No	3 024.00	Rate only
59	Floor cupboard type F500 (Computer), 500 x 550 x 880mm high with sides, bottom, division and shelves (no doors)	No	1 555.20	Rate only
60	Floor corner cupboard type FCU900, 1800mm overall x 550 x 880mm high with sides, bottom, division, shelf, back and one folding hinged door	No	3 628.80	Rate only
	<u>Water resistant particle board with 1mm "Vancouver Maple Formica" decorative thermosetting plastic laminate on one side and balancing plastic laminate on other side</u>			
61	32mm Thick tops, 600mm wide with one long postform "90 degrees Delta" profile leading edge including supporting top against wall and floor cupboards for 1820mm clean opening below	m	216.00	Rate only
Carried to Collection			R	Rate only
Section No. 2 NEW BUILDINGS Bill No. 6 CARPENTRY AND JOINERY LDoE Standard Rates				

Section No. 2

NEW BUILDINGS

Bill No. 6

CARPENTRY AND JOINERY

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Section No. 2

NEW BUILDINGS

Bill No. 6

CARPENTRY AND JOINERY

LDoE Standard Rates

Item		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 7</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
	<u>PREAMBLES</u>			
	For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at maximum 600mm centres, and where described as "bolted", these 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 meranti</u>			
1	19 x 45mm External cornices nailed	m	36.29	Rate only
	<u>Insulation</u>			
2	100mm glass fibre insulation blanket to manufacturer's specification, laid on ceiling	m2	64.80	Rate only
	Carried to Collection		R	Rate only
	Section No. 2 NEW BUILDINGS Bill No. 7 CEILINGS, ETC LDoE Standard Rates			

NAILED-UP CEILINGS

6mm Fibre-cement plain ceiling boards with H-profile galvanised steel jointing strips

3	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres	m2	155.52	Rate only
4	External ceilings including 38 x 38mm sawn softwood brandering at 400mm centres	m2	155.52	Rate only
5	Extra over ceiling for opening for 610 x 610mm trap door of 50 x 76mm wrought softwood rebated framing with one cross brander covered with ceiling board and fitted flush in opening, including necessary trimmers around	No	267.84	Rate only
<u>Gypsum plasterboard cornices</u>				
6	76mm Coved cornices plugged	m	24.19	Rate only

Carried to Collection

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Rate only

Section No. 2
NEW BUILDINGS
Bill No. 7
CEILINGS, ETC
LDoE Standard Rates

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NEW BUILDINGS

Bill No. 7

CEILINGS, ETC

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NEW BUILDINGS
Bill No. 7
CEILINGS, ETC
LDoE Standard Rates

Item	Quantity	Rate	Amount
<u>SECTION NO. 3</u>			
<u>BILL NO. 8</u>			
<u>IRONMONGERY</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Preparation of door frames</u>			
Descriptions for flush bolts, door closers, floor springs, etc. shall be deemed to include all necessary preparations to door frames to accommodate same			
<u>"En-suite" locks</u>			
All "en-suite" locks shall be ordered to operate in a dedicated master keyed and/or grand master keyed lock system as described			
<u>Proprietary items</u>			
Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
Prices are to be based on the specific products/articles specified			
<u>HINGES, BOLTS, ETC</u>			
Carried to Collection			R Rate only
Section No. 2 NEW BUILDINGS Bill No. 8 IRONMONGERY LDoE Standard Rates			

<u>Manufactured by "Assa Abloy"</u>				
1	150mm AL8208-150AS flush bolt with keep fixed to metal or let into concrete	No	216.00	Rate only
2	AL8294AS mortised WC indicator bolt	Sets	371.52	Rate only
3	37651AS helping hand WC indicator bolt with keep fixed to metal	No	768.96	Rate only
<u>CATCHES, CABIN HOOKS, ETC</u>				
<u>In accordance with "Halstead" catalogue</u>				
4	No. 166 SC cabin hook and eye, 100mm long, including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	77.76	Rate only
<u>LOCKS</u>				
<u>Keys</u>				
Unless otherwise described locks shall have two keys each				
<u>Manufactured by "Assa Abloy"</u>				
5	21314-76SS bathroom/WC deadlock	No	146.88	Rate only
6	UN33403X000200 brass padlock	No	112.32	Rate only
7	2261-76SS 4-lever upright mortice lock	No	263.52	Rate only
8	L-2209-78SS euro-profile cylinder lock	No	388.80	Rate only
<u>"EN-SUITE" LOCKS</u>				
The following locks are to be suitable for master and grand master key operation				
Carried to Collection			R	Rate only
Section No. 2 NEW BUILDINGS Bill No. 8 IRONMONGERY LDoE Standard Rates				

	<u>Manufactured by "Assa Abloy"</u>				
9	2x19SCGMK euro-profile knob cylinder	No	250.56	Rate only	
10	Masterkey	No	47.52	Rate only	
11	Grand masterkey	No	56.16	Rate only	
<u>REBATE CONVERSION KITS</u>					
<u>Manufactured by "Assa Abloy"</u>					
12	2900SS rebate conversion set for euro-profile locks	No	216.00	Rate only	
<u>HANDLES</u>					
<u>Manufactured by "Assa Abloy"</u>					
13	"Waterbok AL6W45-24AS" lever handle on 45 x 178mm back plate for lever lock	Pairs	254.88	Rate only	
14	"Waterbok AL6W63-05AS" lever furniture on 76 x 152mm back plate for euro-profile cylinder lock	Pairs	349.92	Rate only	
15	AL5D63-06AS pull handle on 152 x 76mm back plate	No	155.52	Rate only	
16	AL5D66-06AS push plate	No	146.88	Rate only	
<u>PUSH PLATES AND KICK PLATES</u>					
<u>1.2mm Thick satin finished stainless steel plates countersunk screwed along edges at not exceeding 200mm centres</u>					
17	800 x 600mm High kick plate	No	656.64	Rate only	
18	900 x 600mm High kick plate	No	725.76	Rate only	
<u>DOOR CLOSERS</u>					
Carried to Collection			R	Rate only	
Section No. 2 NEW BUILDINGS Bill No. 8 IRONMONGERY LDoE Standard Rates					

	<u>Manufactured by "Assa Abloy"</u>			
19	7836SC slide channel door closer	No	2 505.60	Rate only
	<u>LETTERS, NAME PLATES, ETC</u>			
	<u>Manufactured by "Assa Abloy"</u>			
20	150 x 150mm SS5066E-06SSE10 stainless steel plate with a male symbol	No	133.92	Rate only
21	150 x 150mm SS5066E-06SSE11 stainless steel plate with a female symbol	No	133.92	Rate only
22	150 x 150mm SS5066E-06SSE12 stainless steel plate with a male and female symbol	No	133.92	Rate only
23	150 x 150mm SS5066E-06SSE06 stainless steel plate with a fire extinguisher symbol	No	133.92	Rate only
24	150 x 150mm SS5066E-06SSE05 stainless steel plate with a fire hose reel symbol	No	133.92	Rate only
25	150 x 150mm SS5066E-06SSE16 stainless steel plate with a running man symbol	No	133.92	Rate only
26	150 x 150mm SS5066E-06SSE08 stainless steel plate with a red or green arrow symbol	No	133.92	Rate only
27	150 x 150mm SS5066E-06SSE14 stainless steel plate with a paraplegic symbol	No	133.92	Rate only
	<u>SUNDRIES</u>			
	<u>Manufactured by "Assa Abloy"</u>			
28	9002AS door stop, plugged	No	47.52	Rate only
29	AL8722AS hat and coat hook	No	56.16	Rate only
30	99022SS wall buffer, plugged	No	155.52	Rate only
	Carried to Collection		R	Rate only
	Section No. 2 NEW BUILDINGS Bill No. 8 IRONMONGERY LDoE Standard Rates			

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"Shelco" proprietary type steel shelving with standard powder coated finish

40	Double slot wall band, 914mm long, plugged	No	64.80	Rate only
41	Double slot wall band, 1829mm long, plugged	No	138.24	Rate only
42	Double slot wall band, 2134mm long, plugged	No	164.16	Rate only
43	305mm Shelf bracket	No	38.88	Rate only
44	457mm Shelf bracket	No	56.16	Rate only

STEEL LOCKERS, ETC

"Greenfield" steel lockers with standard baked enamel finish

45	"G25" double door steel cupboard, 760 x 610 x 1700mm high with four shelves	No	1 036.80	Rate only
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PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC

Manufactured by "Vitrex"

46	Model 2300 pinning boards (code 2309) 2400 x 1200mm high, plugged	No	1 209.60	Rate only
47	Model 2300 pinning boards (code 2310) 3000 x 1200mm high, plugged	No	1 641.60	Rate only
48	Model 2200 white writing boards (code 2309) 2400 x 1200mm high, plugged	No	2 160.00	Rate only
49	Code 1017 Enamelled green folding type wall mounted writing board 4800 x 900mm high overall, consisting of one fixed panel 2400 x 900mm high, two fixed panels each 1200 x 900mm high and two swing leaves each 1200 x 900mm high complete with chalk rail, etc, plugged	No	5 961.60	Rate only

Carried to Collection

R **Rate only**

Section No. 2
NEW BUILDINGS
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IRONMONGERY
LDoE Standard Rates

VENETIAN BLINDS

"Windovert" aluminium venetian blinds with 25mm blades, fitted and plugged within the window reveal; complete with hold down brackets, operating chains, tilt rods, etc, to be installed by a specialist subcontractor

50	Venetian blind for 533 x 949mm high window (Admin)	No	544.32	Rate only
51	Venetian blind for 1022 x 949mm high window (Admin)	No	734.40	Rate only
52	Venetian blind for 1511 x 1264mm high window (Admin)	No	1 209.60	Rate only
53	Venetian blind for 2044 x 1264mm high window (Admin)	No	1 900.80	Rate only

Carried to Collection

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Rate only

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IRONMONGERY

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NEW BUILDINGS

Bill No. 8

IRONMONGERY

LDoE Standard Rates

Item	Quantity	Rate	Amount
<u>SECTION NO. 3</u>			
<u>BILL NO. 9</u>			
<u>METALWORK</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<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>Preparation of metal surfaces</u>			
All surfaces of steelwork cleaned and prepared by wire brushing in accordance with SANS 10064 and all surfaces shall be painted with approved factory etch primer to a minimum dry film thickness of 30 micrometres before leaving the workshop of the manufacturer. All scratches, chips or blemishes to be made good on site after erection			
Carried to Collection			R Rate only
Section No. 2 NEW BUILDINGS Bill No. 9 METALWORK LDoE Standard Rates			

Door frames

Unless otherwise described, all frames shall be single rebated and suitable for 40mm thick doors, factory fitted with three washered butt hinges for each door and factory primed complying with SANS Specification 909. Striking plates to be of the chromium plated type

Steel windows

Burglar proofing to be type B20 burglar bars, unless otherwise described. All furniture to be chromium plated

Aluminium doors, windows, etc

Doors and windows shall comply with AAAMSA design criteria

Glazing shall comply with SAGGA regulations. Glass shall be type as shown on the window schedules and/or drawings appended to these bills of quantities and/or as described in the headings to window descriptions. Glass thickness shall comply with SAGGA regulations irrespective of thicknesses 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

For purpose made windows and doors, refer to drawings annexed to these bills of quantities

Carried to Collection

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Rate only

Section No. 2
NEW BUILDINGS
Bill No. 9
METALWORK
LDoE Standard Rates

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 anodising or 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 been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked
- 5 A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for a period of not less than five years

Sealing of all abutments

All windows, frames, etc. abutting face brick walls, etc. to be sealed watertight with an approved silicone sealant along all joints

MILD STEEL

Carried to Collection

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Rate only

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NEW BUILDINGS
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METALWORK
LDoE Standard Rates

The following in identical steel support columns to walkways

1	Bolts, complete with nuts and two washers each	kg	60.48	Rate only
2	76 x 76 x 3mm Thick tubular section columns	m	302.40	Rate only
3	75 x 6mm Thick flat section fixing plate 120mm long, twice holed for bolt and welded to top end of tubular section column	No	103.68	Rate only
4	200 x 200 x 6mm Thick flat section base plate, four times holed for bolt and welded to bottom end of tubular section column	No	155.52	Rate only
5	10mm Diameter x 75mm long sleeved masonry anchor	No	34.56	Rate only
<u>MILD STEEL</u>				
6	50 x 50 x 3mm Hollow section framework	kg	24.19	Rate only

STEEL GATES, SCREENS, ETC

Carried to Collection

R **Rate only**

Section No. 2
NEW BUILDINGS
Bill No. 9
METALWORK
LDoE Standard Rates

Gates

7	Single gate and frame 855 x 2185mm high overall with frame of 25 x 25 x 1.6mm tubular section framed surround, mitred and welded at angles with four 50 x 50 x 5mm flat section brackets, each once holed, welded on at sides and bolted to wall with M10 x 95mm expansion bolts (expansion bolts elsewhere), gate formed of two sections welded together, each section with 25 x 25 x 1.6mm tubular section framed surround, mitred and welded at angles with two horizontal middle rails 150mm apart to form three panels, all panels filled in with expanded mesh on inside of openings and with 10 x 10mm mild steel solid section beads on both sides of expanded metal and fitted with two pairs 100mm bullet hinges welded to gate and frame and gate supplied with suitable lock case with and including "Assa Abloy 2261-76SS" four lever upright mortice lock and one pair "Assa Abloy AL6W45-24AS" handles on 178 x 45mm backplate	No	4 147.20	Rate only
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Carried to Collection

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Rate only

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 NEW BUILDINGS
 Bill No. 9
 METALWORK
LDoE Standard Rates

8	Double gate and frame 2000 x 2185mm high overall with frame of 25 x 25 x 1.6mm tubular section framed surround, mitred and welded at angles with eight 50 x 50 x 5mm flat section brackets welded on at sides and bolted to wall with eight M10 x 95mm expansion bolts (expansion bolts elsewhere), gate in two equal leaves, each leaf formed of two sections welded together, each section with 25 x 25 x 1.6mm tubular section framed surround, mitred and welded at angles with two horizontal middle rails 150mm apart to form three panels, all panels filled in with expanded mesh on inside of openings and with 10 x 10mm mild steel solid section beads on both sides of expanded metal, the gate fitted with four pairs 100mm bullet hinges welded to gate and frame including approved 180mm barrel bolts welded to inside bottom and top of one leaf with keep let into brickwork or concrete and gate supplied with suitable lock case with and including "Assa Abloy 2261-76SS" four lever upright mortice lock and one pair "Assa Abloy AL6W45-24AS" handles on 178 x 45mm backplate	No	8 294.40	Rate only
9	Double gate and frame 1575 x 2100mm high overall with frame of 25 x 25 x 1.6mm tubular section framed surround, mitred and welded at angles with eight 50 x 50 x 5mm flat section brackets, once holed and welded on at sides and bolted to wall with eight M10 x 95mm expansion bolts (expansion bolts elsewhere), gate in two equal leaves, each leaf formed of 25 x 25 x 1.6mm tubular section framed surround, mitred and welded at angles with two horizontal middle rails 150mm apart to form three panels, all panels filled in with 12 x 12mm mild steel solid section vertical rails at maximum 100mm centres, the gate fitted with four pairs 100mm bullet hinges welded to gate and frame including approved 180mm barrel bolts welded to inside bottom and top of one leaf with keep let into brickwork or concrete and gate supplied with suitable lock case with and including "Assa Abloy 2261-76SS" four lever upright mortice lock and one pair "Assa Abloy AL6W45-24AS" handles on 178 x 45mm backplate	No	6 480.00	Rate only
Carried to Collection			R	Rate only
Section No. 2 NEW BUILDINGS Bill No. 9 METALWORK LDoE Standard Rates				

10	10mm Diameter x 95mm long sleeved masonry anchor bolt	No	47.52	Rate only
<u>STEEL MINOR WORK</u>				
<u>Framework to timber tops and slatted seating at nutrition</u>				
11	38 x 38 x 2,5mm Hollow section framework for slatted seats and table tops	kg	41.47	Rate only
12	Hole through 38mm hollow section for screw or bolt	No	3.46	Rate only
13	M8 x 90mm Expansion bolt	No	38.88	Rate only
<u>PRESSED STEEL DOOR FRAMES</u>				
<u>1,2mm Single rebated frames suitable for half brick walls</u>				
14	Frame for door 813 x 2032mm high	No	820.80	Rate only
15	Frame for door 914 x 2032mm high	No	820.80	Rate only
<u>1,2mm Single rebated frames suitable for one brick walls</u>				
16	Frame for door 813 x 2032mm high	No	950.40	Rate only
17	Frame for door 914 x 2032mm high	No	950.40	Rate only
18	Frame for double door 1511 x 2032mm high	No	1 296.00	Rate only
<u>COMBINATION DOORS AND FRAMES</u>				
Carried to Collection			R	Rate only
Section No. 2 NEW BUILDINGS Bill No. 9 METALWORK LDoE Standard Rates				

	<u>Standard "NTY" or similar approved purpose made 1,2mm thick double rebated door frames suitable for one-brick walls</u>			
19	"NTY 914 Classroom Combo" combination door frame with security gate (both opening out), consisting of frame for door 914 x 2032mm high fitted with three parliament hinges with and including single security gate and frame, 914 x 2032mm high overall of 25 x 25 2mm hollow section frame mitred and welded at angles and two 25 x 25 x 2mm hollow section horizontal middle rails, gate filled in with 12 x 12mm square solid section vertical rails at 100mm centres and fitted with locking bolt suitable for padlock (padlock elsewhere), frame formed of 15 x 15 x 2mm hollow section stiles and top rail mitred and welded at angles and fitted with three hinges welded to gate and frame, frame factory welded at maximum 250mm centre to door frame	No	4 492.80	Rate only
	<u>STEEL WINDOWS, DOORS, ETC</u>			
	<u>Standard residential windows with 12 x 12mm solid horizontal burglar bars at 150mm centres to all sashes</u>			
20	Window type NE1, 533 x 654mm high	No	475.20	Rate only
21	Window type NC5F, 533 x 949mm high	No	561.60	Rate only
	<u>Standard residential awning type windows with 12 x 12mm solid horizontal burglar bars at 150mm centres to all sashes</u>			
22	Window type SWE31S, 533 x 949mm high	No	734.40	Rate only
23	Window type SWE37S, 1022 x 949mm high	No	846.72	Rate only
24	Window type SWE418, 1511 x 1264mm high	No	1 382.40	Rate only
25	Composite window type SWE37S/SWE37S, size 2044 x 949mm high	No	1 987.20	Rate only
	Carried to Collection		R	Rate only
	Section No. 2 NEW BUILDINGS Bill No. 9 METALWORK LDoE Standard Rates			

	<u>Standard horizontal pivot type school windows with 12 x 12mm solid burglar bars to all sashes to line up with vertical and horizontal section of window</u>			
26	Composite window type 5/8, size 1143 x 1272mm high	No	1 555.20	Rate only
	<u>Standard industrial type windows with 12 x 12mm solid burglar bars to all sashes to line up with vertical and horizontal section of window</u>			
27	Window type SS42, 1302 x 978mm high	No	1 900.80	Rate only
28	Composite window type SS41/SSF41, 1302 x 1022mm high	No	2 160.00	Rate only
	<u>Steel glazing beads, coupling transoms, coupling mullions, etc</u>			
29	Standard residential section coupling transom, 949mm long	No	293.76	Rate only
	<u>STEEL LOUVRES, ETC</u>			
	<u>Purpose made louvres</u>			
30	Epoxy powder coated (colour to match roof sheeting) triangular shaped (on elevation) residential section louvred ventilators 2040mm wide (at horizontal bottom) x 380mm high overall, filled in with type LC fixed horizontal louvre blades fixed to surround and covered at back with No 256 galvanised mesh mosquito gauze, fixed with and including 3 x 20mm steel flat section cover strips screwed on	No	2 073.60	Rate only
31	Epoxy powder coated (colour to match roof sheeting) triangular shaped (on elevation) residential section louvred ventilators 2400mm wide (at horizontal bottom) x 440mm high overall, filled in with type LC fixed horizontal louvre blades fixed to surround and covered at back with No 256 galvanised mesh mosquito gauze, fixed with and including 3 x 20mm steel flat section cover strips screwed on	No	2 246.40	Rate only
	Carried to Collection		R	Rate only
	Section No. 2 NEW BUILDINGS Bill No. 9 METALWORK LDoE Standard Rates			

32	Epoxy powder coated (colour to match roof sheeting) triangular shaped (on elevation) residential section louvered ventilators 3284mm wide (at horizontal bottom) x 597mm high overall, filled in with type LC fixed horizontal louver blades fixed to surround and covered at back with No 256 galvanised mesh mosquito gauze, fixed with and including 3 x 20mm steel flat section cover strips screwed on	No	3 110.40	Rate only
33	Epoxy powder coated (colour to match roof sheeting) triangular shaped (on elevation) residential section louvered ventilators 3620mm wide (at horizontal bottom) x 660mm high overall, filled in with type LC fixed horizontal louver blades fixed to surround and covered at back with No 256 galvanised mesh mosquito gauze, fixed with and including 3 x 20mm steel flat section cover strips screwed on	No	4 233.60	Rate only
<u>STEEL ROLLER SHUTTERS ETC</u>				
<u>"Serranda" powder coated roller grilles fixed to brickwork or concrete</u>				
34	Manual push-up slatted roller shutter for 2100 x 2400mm high opening	No	6 480.00	Rate only
<u>STEEL STRONG ROOM DOORS, VENTILATORS, ETC.</u>				
<u>"Mutual Safes" strongroom doors etc suitable for 230mm walls fixed to brickwork or concrete</u>				
35	Model DS50/2 SABS category 2 (Light duty) strong room door complete with two 7 lever keylocks and 3 wheel combination lock	No	12 096.00	Rate only
36	185 x 185 mm Double ended strongroom telescopic ventilator for 230mm wall, complete with two 255 x 255 mm face plates, baffle plates, fixing lugs, etc	No	734.40	Rate only
37	Standard safe doorstop	No	302.40	Rate only
Carried to Collection			R	Rate only
Section No. 2 NEW BUILDINGS Bill No. 9 METALWORK LDoE Standard Rates				

ALUMINIUM DOORS

Natural anodised aluminium doors glazed with 6.38mm clear PVB laminated safety glass as per "Wispeco" system, complete with subframes, ironmongery, glass, sealing, etc and fixing to brickwork or concrete

38	Double swing door with frame suitable for opening 1575 x 2100mm high overall in two equal leaves to swing to both sides, each leaf formed of two stiles, top, bottom and middle rail to form two sashes each in fixed panel with and including one pair "Assa Abloy" AL5512-200BBAS back-to-back cranked pull handles to each leaf, one leaf fitted with 40mm "Assa Abloy" L-21315-40PL narrow stile deadlock, 40mm T2X20/40NGMK euro-profile single cylinder and one pair "Assa Abloy" 5305-05 escutcheons, other leaf fitted with one pair 150mm "Assa Abloy" AL8208-150AS" flush, both leaves fitted with "Dorma" BTS75 V/EN2-5 stainless steel double action floor spring complete with cover plate, bottom strap, top centre and non-hold open action installed complete	No	13 824.00	Rate only
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CATERING EQUIPMENT

"Caterquip"

39	3980 x 1200 x 570mm High stainless steel wall mounted cyclovent type extraction canopy with baffle type filters, 220V fan motors, 400mm diameter silencers and two 400mm diameter flue pipes	No	51 840.00	Rate only
	<u>"Catering Equipment 4 All"</u>			
40	1200 x 400 x 700mm High floor standing LPG gas operated three open burner type boiling table with removable grids, adjustable legs and galvanised steel drip tray with each burner individually controlled by control valves	No	8 208.00	Rate only

Carried to Collection

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Rate only

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METALWORK
LDoE Standard Rates

41	<p>"Amana"</p> <p>Heavy duty industrial 1000W microwave, 375 x 549 x 503mm high with a capacity of 34 litres</p> <p>No</p>		5 184.00	Rate only
	<p>Carried to Collection</p>		R	Rate only
	<p>Section No. 2 NEW BUILDINGS Bill No. 9 METALWORK LDoE Standard Rates</p>			

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NEW BUILDINGS

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METALWORK

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METALWORK

LDoE Standard Rates

Item	Quantity	Rate	Amount
<u>SECTION NO. 3</u>			
<u>BILL NO. 10</u>			
<u>PLASTERING</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Granolithic</u>			
The method to be used shall be either the monolithic method or the bonded method			
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			
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			
Carried to Collection			R Rate only
Section No. 2 NEW BUILDINGS Bill No. 10 PLASTERING LDoE Standard Rates			

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

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 trowelled or power floated

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

Coloured granolithic shall be tinted with an approved colouring pigment mixed into the granolithic in the proportion of 1kg pigment per pocket of cement, of uniform appearance and consistent colour throughout

SCREEDS

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Rate only

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NEW BUILDINGS
Bill No. 10
PLASTERING
LDoE Standard Rates

	<u>Screeds steel trowelled, on concrete</u>			
1	Average 50mm Thick to cover slabs to falls	m2	112.32	Rate only
	<u>Screeds wood floated for tiles, on concrete</u>			
2	30mm Thick to floors and landings	m2	86.40	Rate only
3	30mm Thick to floors and landings in thresholds	m2	86.40	Rate only
	<u>GRANOLITHIC</u>			
	<u>Untinted wood floated granolithic, on concrete</u>			
4	30mm Thick to floors and landings	m2	103.68	Rate only
5	30mm Thick to floors and landings in thresholds	m2	103.68	Rate only
6	Average 30mm thick to walkway	m2	103.68	Rate only
	<u>Untinted steel trowelled granolithic, on concrete</u>			
7	30mm Thick to floors and landings	m2	103.68	Rate only
8	30mm Thick to floors and landings in thresholds	m2	103.68	Rate only
9	Skirting 75mm high	m	12.96	Rate only
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster steel trowelled, on brickwork</u>			
10	On walls	m2	69.12	Rate only
11	On narrow widths	m2	69.12	Rate only
	<u>Cement plaster wood floated for tiles, on brickwork</u>			
12	On walls	m2	69.12	Rate only
13	On narrow widths	m2	69.12	Rate only
	Carried to Collection		R	Rate only
	Section No. 2 NEW BUILDINGS Bill No. 10 PLASTERING LDoE Standard Rates			

	<u>Cement plaster steel trowelled, on concrete</u>			
14	On ceilings and beams	m2	69.12	Rate only
	<u>EXTERNAL PLASTER</u>			
	<u>Cement plaster steel trowelled, on concrete</u>			
15	On ceilings of cover slabs	m2	69.12	Rate only
16	On narrow widths of cover slabs	m2	69.12	Rate only
	<u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u>			
17	30 x 3mm Flat section brass dividing strips between different floor finishes	m	103.68	Rate only
18	30 x 3mm Flat section aluminium cover strips screwed to floor between different floor finishes	m	103.68	Rate only
Carried to Collection			R	Rate only
Section No. 2 NEW BUILDINGS Bill No. 10 PLASTERING LDoE Standard Rates				

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NEW BUILDINGS

Bill No. 10

PLASTERING

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Section No. 2
NEW BUILDINGS
Bill No. 10
PLASTERING
LDoE Standard Rates

Item	Quantity	Rate	Amount
<u>SECTION NO. 3</u>			
<u>BILL NO. 11</u>			
<u>TILING</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Patterns</u>			
Unless otherwise described, tiles shall be laid with continuous joints in both directions			
<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 approved tiling key-coat			
Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles			
<u>WALL TILING</u>			
Carried to Collection			R Rate only
Section No. 2 NEW BUILDINGS Bill No. 11 TILING LDoE Standard Rates			

	<u>200 x 200 x 5mm White matt ceramic tiles fixed with adhesive to plaster (plaster elsewhere) and flush jointed with white waterproofed grout</u>			
1	On walls	m2	146.88	Rate only
2	On walls in isolated panels, splashbacks, etc	m2	146.88	Rate only
3	On narrow widths	m2	146.88	Rate only
	<u>FLOOR TILING</u>			
	<u>Ceramic floor tiles (PC amount of R140 per m2 excluding VAT) fixed with adhesive to screed (screed elsewhere) and flush pointed with dark grey tinted waterproof jointing compound</u>			
4	On floors and landings	m2	207.36	Rate only
5	On floors and landings in openings	m2	207.36	Rate only
6	Skirting formed of ceramic tile cut to 75mm high	m	21.60	Rate only
	<u>Ceramic floor tiles (PC amount of R160 per m2 excluding VAT) fixed with adhesive to screed (screed elsewhere) and flush pointed with dark grey tinted waterproof jointing compound</u>			
7	On floors and landings	m2	233.28	Rate only
	Carried to Collection		R	Rate only
	Section No. 2 NEW BUILDINGS Bill No. 11 TILING LDoE Standard Rates			

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NEW BUILDINGS

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TILING

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NEW BUILDINGS
Bill No. 11
TILING
LDoE Standard Rates

Item	Quantity	Rate	Amount
<u>SECTION NO. 3</u>			
<u>BILL NO. 12</u>			
<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Wire gratings</u>			
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings			
<u>Stainless steel basins, sinks, wash troughs, urinals, etc</u>			
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			
<u>Sealing of edges</u>			
Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone			
Carried to Collection		R	Rate only
Section No. 2 NEW BUILDINGS Bill No. 12 PLUMBING AND DRAINAGE LDoE Standard Rates			

Waste unions

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings

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

Carried to Collection

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Rate only

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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

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

Carried to Collection

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Rate only

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Disinfection of water pipework

Water pipework is to be disinfected at completion

Petrolatum anti-corrosion tape

Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with 75% overlaps

Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions

Prices for wrapping of pipes shall include for all work as described to couplings in the length

Timber backing boards

Descriptions for fire extinguishers shall be deemed to include hardwood backboard with exposed edges chamfered and finished with three coats approved satin gloss polyurethane varnish

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

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

Carried to Collection

R

Rate only

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PLUMBING AND DRAINAGE
LDoE Standard Rates

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)

As-built drawings

Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)

Regulations

All drainage and sanitary work shall be executed in accordance with the regulations of the Local Authority. Only registered plumbers and drainlayers shall be employed on any plumbing and drainage work and a Certificate of Compliance must be issued after completion of the installation

RAINWATER DISPOSAL

0,6mm Galvanised sheet steel seamless gutters and rainwater pipes with powder coated finish on outside

1	100 x 100mm Roof gutters with beaded front edge	m	133.92	Rate only
2	Extra over gutter for corner	No	69.12	Rate only

Carried to Collection

R **Rate only**

Section No. 2
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PLUMBING AND DRAINAGE
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3	Extra over gutter for outlet for 100mm diameter pipe	No	69.12	Rate only
4	100mm Diameter rainwater pipes	m	108.00	Rate only
5	Extra over rainwater pipe for shoe	No	69.12	Rate only
6	Extra over rainwater pipe for eaves or plinth offset	No	138.24	Rate only
<u>SANITARY FITTINGS</u>				
<u>Manufactured by "Franke"</u>				
7	900 x 500mm Type "Quinline QLX611" with end bowl on cupboard (cupboard elsewhere)	No	2 160.00	Rate only
8	500 x 600mm Type "Lux tub DLT" single bowl wash trough on cupboard (cupboard elsewhere)	No	1 987.20	Rate only
<u>Manufactured by "Vaal Sanitaryware"</u>				
9	610 x 500mm "Tuscany" (code 7017) lavatory basin with one tap hole on "Tuscany" (code 7157) floor mounted pedestal	No	950.40	Rate only
10	456 x 290mm "Bantam" lavatory basin with two tapholes fixed to wall with and including two fixing bolts	No	950.40	Rate only
11	"Hibiscus" close-coupled wc suite comprising pan with double flap heavy duty thermoplastic seat and matching 9 litre cistern	No	2 073.60	Rate only
12	"Lavatera" (code 705426) top inlet wall hung bowl urinal with spreader and waste union (flush valve and flush pipe elsewhere)	No	2 764.80	Rate only
<u>"ENVIRO LOO" TOILET SYSTEMS</u>				
Carried to Collection			R	Rate only
Section No. 2 NEW BUILDINGS Bill No. 12 PLUMBING AND DRAINAGE LDoE Standard Rates				

Manufactured by "Enviro Loo"

Note:

Prices for "Enviro Loo" toilet systems to include for the complete supply and installation in strict accordance with the manufacturer's instructions by a company approved by the manufacturer including all necessary inspections by the approved supplier/installer and the issue of a Certificate of Compliance and guarantee upon completion

13	"Enviro Loo System Model BP1040 Standard" installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvered inlets (PL.1), drying plate (PL.2), two x air inlets (PL.3), toilet pan, seat and lid (PL.4), 3500mm long outlet vent pipe (PL.5), ventilation extraction unit (PL.6) fixed to wall with vent wall bracket (PL.7), 1 bag mounting screws and organic starter, enzyme and toilet cleaner (PL.8) including all necessary interconnector piping between multiple tanks, emergency outlet piping, etc	No	12 960.00	Rate only
14	"Enviro Loo Urinal Evaporative Tank System" installed strictly in accordance with manufacturers instructions, unit comprising of urinal evaporative tank (PL.1), urinal bowl (PL.5), 3500mm long outlet vent pipe (PL.3), ventilation extraction unit (PL.3) fixed to wall with vent wall bracket (PL.4), 1 bag mounting screws and organic starter, enzyme and toilet cleaner (PL.8) including all necessary piping, etc	No	9 504.00	Rate only
<u>WASTE UNIONS ETC</u>				
<u>Manufactured by "Cobra"</u>				
15	32mm "308" chromium plated unslotted basin waste union	No	116.64	Rate only
16	38mm "316" chromium plated unslotted bath or sink waste union	No	155.52	Rate only

Carried to Collection

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Rate only

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TRAPS ETCManufactured by "Rofo"

17	"RO200V NW100" floor drain set into concrete floor with holed rounded flange to fit granolithic floor finish	No	3 456.00	Rate only
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Manufactured by "Cobra"

18	"345/50" chromium plated bottle trap	No	501.12	Rate only
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19	"365/50" chromium plated bottle trap	No	501.12	Rate only
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TAPS, VALVES, ETCManufactured by "Cobra"

20	25mm "1001/125-25" brass full way gate valve	No	103.68	Rate only
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21	15mm "232/350" angle regulating valve with 350mm long flexible service connection	No	250.56	Rate only
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22	15mm "108LK" brass hose bib tap	No	293.76	Rate only
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23	15mm "211-15 Star" pillar tap	No	433.73	Rate only
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24	15mm "505-21" elbow action pillar tap	No	1 944.00	Rate only
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25	15mm "266/041/108 Star" wall type sink mixer with overarm swivel outlet	No	1 425.60	Rate only
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26	12mm "FJT5-4" chromium plated flush pipe	No	781.92	Rate only
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27	"Flushmaster Junior FJ6-000" chromium plated exposed urinal flush valve (flush pipe elsewhere)	No	2 764.80	Rate only
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SANITARY PLUMBINGPVC-U soil and vent pipes

28	50mm Pipes	m	38.88	Rate only
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Carried to Collection

R

Rate only

Section No. 2
 NEW BUILDINGS
 Bill No. 12
 PLUMBING AND DRAINAGE
LDoE Standard Rates

29	50mm Pipes laid in and including trenches not exceeding 1m deep	m	47.52	Rate only
30	110mm Pipes	m	82.08	Rate only
31	110mm Pipes laid in and including trenches not exceeding 1m deep	m	99.36	Rate only
	<u>Extra over PVC-U soil and vent pipes for fittings</u>			
32	50mm Bend	No	21.60	Rate only
33	50mm Access bend	No	25.92	Rate only
34	50mm Junction	No	21.60	Rate only
35	50mm Access junction	No	30.24	Rate only
36	110mm Pan connector	No	190.08	Rate only
37	110mm Bend	No	95.04	Rate only
38	110mm Access bend	No	95.04	Rate only
39	110mm Junction	No	82.08	Rate only
40	110mm Access junction	No	138.24	Rate only
41	110 x 50mm Access reducing junction	No	159.84	Rate only
42	110mm "GI Two-way" vent valve	No	103.68	Rate only
43	50mm "GI Two-way" vent valve	No	77.76	Rate only
	<u>Testing</u>			
44	Testing waste pipe system	Item		Rate only
	<u>WATER SUPPLIES</u>			
	Carried to Collection			R Rate only
	Section No. 2 NEW BUILDINGS Bill No. 12 PLUMBING AND DRAINAGE LDoE Standard Rates			

	<u>Class 0 copper pipes with capillary couplings</u>			
45	15mm Pipes	m	64.80	Rate only
46	22mm Pipes	m	98.50	Rate only
	<u>Extra over class 0 copper pipes for capillary fittings</u>			
47	15mm Fittings	No	12.10	Rate only
48	22mm Fittings	No	23.33	Rate only
	<u>ELECTRIC WATER HEATERS</u>			
	<u>Manufactured by "Kwikot"</u>			
49	150 Litre "Megaflo" electric water heater mounted horizontally on roof timbers	No	3 888.00	Rate only
50	"KwikTray" (code GSTP-1650) polyethylene tray size 1350 x 600mm with 50mm PVC adaptor for 40mm overflow pipe and fix in position	No	777.60	Rate only
	<u>PVC-U pipes</u>			
51	40mm Overflow pipes	m	34.56	Rate only
	<u>Extra over PVC-U pipes for fittings</u>			
52	40mm Bend	No	25.92	Rate only
53	38mm Sawn softwood boarding for geyser platform formed of 38 x 228mm boards butt-jointed and nailed to truss tie beams.	m2	103.68	Rate only
	<u>Manufactured by "Cobra"</u>			
54	"PB 1.10 RB" vacuum breaker	No	190.08	Rate only
55	"PA 3.132 Masterflo 1" pressure reducing valve	No	820.80	Rate only
56	25mm "1001/125-25" brass full way gate valve	No	285.12	Rate only
	Carried to Collection		R	Rate only
	Section No. 2 NEW BUILDINGS Bill No. 12 PLUMBING AND DRAINAGE LDoE Standard Rates			

	<u>Testing</u>			
57	Testing water pipe system		Item	Rate only
	<u>FIRE APPLIANCES ETC</u>			
	<u>Manufactured by "Safequip"</u>			
58	9 Kg "Blue Crane" dry chemical powder fire extinguisher	No	734.40	Rate only
59	5 Kg "Safequip" carbon dioxide fire extinguisher	No	864.00	Rate only
60	Fire hose reel complete with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	2 419.20	Rate only
	<u>WATER SUPPLIES TO FIRE APPLIANCES</u>			
	<u>Class 16 PVC-U pressure pipes with solvent welded joints</u>			
61	25mm Pipes laid in and including trenches under floors, aprons, etc	m	64.80	Rate only
	<u>Extra over Class 16 PVC-U pressure pipes for fittings with solvent welded joints</u>			
62	50mm Elbow	No	108.00	Rate only
63	50mm Reducer	No	90.72	Rate only
	<u>Galvanised medium steel pipes with screwed and socketed joints</u>			
64	25mm Pipes	m	105.41	Rate only
65	25mm Pipes laid in and including trenches under floors, aprons, etc	m	122.69	Rate only
	Carried to Collection		R	Rate only
	Section No. 2 NEW BUILDINGS Bill No. 12 PLUMBING AND DRAINAGE LDoE Standard Rates			

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Section No. 2

NEW BUILDINGS

Bill No. 12

PLUMBING AND DRAINAGE

COLLECTION

Total Brought Forward from Page No.

Page**Amount**

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Rate only

92

Rate only

93

Rate only

94

Rate only

95

Rate only

96

Rate only

97

Rate only

98

Rate only

99

Rate only

100

Rate only

101

Rate only

102

Rate only**Carried Forward to Summary of Section No. 2**

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Rate only

Section No. 2

NEW BUILDINGS

Bill No. 12

PLUMBING AND DRAINAGE

LDoE Standard Rates

	<u>6mm Silvered float glass copper backed mirrors with bevelled edges, holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u>			
3	Mirror 400 x 600mm high with four screws	No	518.40	Rate only
4	Mirror 400 x 900mm high with four screws	No	777.60	Rate only
Carried to Collection				R Rate only
Section No. 2 NEW BUILDINGS Bill No. 13 GLAZING LDoE Standard Rates				

Section No. 2

NEW BUILDINGS

Bill No. 13

GLAZING

COLLECTION

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Rate only

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Rate only

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Rate only

Section No. 2

NEW BUILDINGS

Bill No. 13

GLAZING

LDoE Standard Rates

Item		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 14</u>			
	<u>PAINTWORK</u>			
	<u>PREAMBLES</u>			
	For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Paint specifications</u>			
	All painting shall be done in accordance with "Plascon" specifications unless otherwise described			
	<u>Colours</u>			
	Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards			
	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	Prepare and prime with "Plascon Plaster Primer (UC 56)" and apply two finishing coats "Plascon Super Acrylic Polvin" PVA paint			
1	Walls	m2	60.48	Rate only
2	Ceilings and beams	m2	60.48	Rate only
	Carried to Collection		R	Rate only
	Section No. 2 NEW BUILDINGS Bill No. 14 PAINTWORK LDoE Standard Rates			

	<u>Prepare and prime with "Plascon Plaster Primer (UC 56)" and apply two finishing coats "Plascon Waterbased Velvagio" satin enamel paint</u>			
3	Walls	m2	69.12	Rate only
	<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>			
	<u>Prepare and prime with "Plascon Plaster Primer (UC 56)" and apply two finishing coats "Plascon Super Acrylic Polvin" PVA paint</u>			
4	Ceilings and beams ("Pastel" colour group)	m2	60.48	Rate only
	<u>ON FIBRE-CEMENT BOARD SURFACES</u>			
	<u>Prepare and prime with "Plascon Plaster Primer (UC 56)" and apply two finishing coats "Plascon Super Acrylic Polvin" PVA paint</u>			
5	Ceilings and cornices, including priming metal jointing strips and nailheads	m2	60.48	Rate only
6	External ceilings and cornices, including priming metal jointing strips and nailheads	m2	60.48	Rate only
7	Fascias and barge boards, including priming metal jointing strips	m2	60.48	Rate only
8	Sills	m2	60.48	Rate only
	<u>ON METAL SURFACES</u>			
	<u>Spot priming defects in pre-primed surfaces with "Plascon Metalcare Etch Primer Red-Oxide (SNK200), prime with "Plascon Metalcare Galvanised Iron Primer (GIP1)" and apply two finishing coats "Plascon Super Universal Enamel" paint</u>			
9	Door frames	m2	69.12	Rate only
Carried to Collection			R	Rate only
Section No. 2 NEW BUILDINGS Bill No. 14 PAINTWORK LDoE Standard Rates				

	<u>Spot priming defects in pre-primed surfaces with "Plascon Metalcare Etch Primer Red-Oxide (SNK200)", prime with "Plascon Metalcare Galvanised Iron Primer" (UC501) and apply two finishing coats "Plascon Super Universal Enamel" paint</u>			
10	Windows with burglar bars	m2	69.12	Rate only
11	Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	69.12	Rate only
12	Steel framework for slatted seats and table tops not exceeding 300mm girth	m	21.60	Rate only
13	On columns and beams	m2	69.12	Rate only
	<u>Clean with "Plascon Aquasolv Degreaser (GR1), prime with "Plascon Multi-surface Primer (WUP1)" and apply two finishing coats "Plascon Super Universal Enamel" paint</u>			
14	Galvanised mild steel pipes not exceeding 300mm girth (Provisional)	m	21.60	Rate only
15	Copper pipes not exceeding 300mm girth (Provisional)	m	21.60	Rate only
	<u>ON WOOD SURFACES</u>			
	<u>Sand down to a smooth finish, seal knots with "Plascon Woodcare Knot Seal (PK2)", prime with "Plascon Wood Primer (UC2)", and apply two finishing coats "Plascon Super Universal Enamel" paint</u>			
16	Roof timbers at eaves and verges	m2	69.12	Rate only
	<u>Sand down to a smooth finish, prime with "Plascon Wood Primer (UC2)", and apply two finishing coats "Plascon Waterbased Velvagio (TSE Tint Bases) sating enamel paint</u>			
17	Doors	m2	69.12	Rate only
	Carried to Collection		R	Rate only
	Section No. 2 NEW BUILDINGS Bill No. 14 PAINTWORK LDoE Standard Rates			

	Sand down to a smooth finish, stop with "Polycell Woodfiller", stain with "Plascon Woodcare Stain (W-range)" (colour meranti), apply one coat "Plascon Woodcare Ultra Varnish (X44)" thinned with 1:3 mineral turpentine (AZH1), and two finishing coats "Plascon Woodcare Ultra (X44)" suede varnish			
18	Framed frames, sills, etc not exceeding 300 mm girth	m	21.60	Rate only
19	Skirtings, rails, etc not exceeding 300 mm girth	m	21.60	Rate only
	Sand down to a smooth finish and apply three coats "Woodoc 10" wood sealer			
20	Shelves	m2	69.12	Rate only
	Sand down to a smooth finish, stop with "Polycell Woodfiller", apply one coat raw linseed oil thinned with 1:3 mineral turpentine (AZH1), and two finishing coats "Plascon Woodcare Waterbased Premium Exterior Range (WSP23)" clear suede varnish			
21	External cornices, rails, etc not exceeding 300 mm girth	m	21.60	Rate only
	Sand down to a smooth finish, stain with "Plascon Woodcare Stain W-Range" (colour meranti) and apply three coats "Plascon Woodcare Wood Preservative (FPR 1)"			
22	Doors	m2	69.12	Rate only
23	On laminated beams	m2	69.12	Rate only
24	On laminated beams	m2	34.56	Rate only
25	On laminated beams	m2	34.56	Rate only
	<u>ON PVC-U SURFACES</u>			
	Carried to Collection		R	Rate only
	Section No. 2 NEW BUILDINGS Bill No. 14 PAINTWORK LDOE Standard Rates			

	Clean with "Plascon Aquasolv Degreaser (GR1), prime with "Plascon Multi-surface Primer (WUP1)" and apply two finishing coats "Plascon Super Universal Enamel paint"			
26	Pipes not exceeding 300mm girth (Provisional)	m	21.60	Rate only
Carried to Collection				R
Section No. 2 NEW BUILDINGS Bill No. 14 PAINTWORK LDoE Standard Rates				

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Section No. 2				
NEW BUILDINGS				
<u>SECTION SUMMARY - NEW BUILDINGS</u>				
Bill		Page		Amount
1	FOUNDATIONS	25		Rate only
2	CONCRETE, FORMWORK & REINFORCEMENT	31		Rate only
3	MASONRY	36		Rate only
4	WATERPROOFING	39		Rate only
5	ROOF COVERINGS, ETC	42		Rate only
6	CARPENTRY AND JOINERY	58		Rate only
7	CEILINGS, ETC	61		Rate only
8	IRONMONGERY	69		Rate only
9	METALWORK	82		Rate only
10	PLASTERING	87		Rate only
11	TILING	90		Rate only
12	PLUMBING AND DRAINAGE	103		Rate only
13	GLAZING	106		Rate only
14	PAINTWORK	112		Rate only
Carried to Final Summary			R	Rate only
Section No. 2				
NEW BUILDINGS				
LDoE Standard Rates				

Item		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>EXTERNAL WORK (PROVISIONAL)</u>			
	<u>BILL NO. 1</u>			
	<u>GENERAL SITE WORKS, ETC</u>			
	<u>PREAMBLES</u>			
	For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Supplementary preambles and full descriptions of materials, items, work, etc. applicable to this Section</u>			
	The Contractor is referred to the previous section(s) for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this section, unless specifically otherwise described			
	<u>SITE CLEARANCE</u>			
	<u>Site clearance, trees, etc</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	4.32	Rate only
	Carried to Collection		R	Rate only
	Section No. 3 EXTERNAL WORKS Bill No. 1 GENERAL SITE WORKS LDoE Standard Rates			

	<u>Taking out and removing, grubbing up roots and filling in holes</u>			
2	Tree or stump exceeding 200mm and not exceeding 500mm girth	No	388.80	Rate only
3	Tree or stump exceeding 500mm and not exceeding 1000mm girth	No	648.00	Rate only
4	Tree or stump exceeding 1000mm and not exceeding 1500mm girth	No	1 296.00	Rate only
5	Tree or stump exceeding 1500mm and not exceeding 2000mm girth	No	2 160.00	Rate only
6	Tree or stump exceeding 2000mm and not exceeding 3000mm girth	No	3 024.00	Rate only
	<u>FLAG POLES</u>			
	<u>Proprietary flagpoles installed complete</u>			
	<u>25MPa/19mm In-situ concrete base finished smooth on exposed faces</u>			
7	Base 600 x 600 x 1000mm deep overall, with top of concrete base projecting 75mm above adjacent paved surfaces and finished smooth on all exposed sides and with horizontal top wood floated with all external angles rounded, including all necessary excavations, formwork, backfilling, etc	No	1 296.00	Rate only
	Carried to Collection		R	Rate only
	Section No. 3 EXTERNAL WORKS Bill No. 1 GENERAL SITE WORKS LDoE Standard Rates			

Hot dipped galvanised mild steel

8	Standard galvanised mild steel flag pole 9m high overall with 6m high bottom section and 3m high top section of flag pole formed of 101mm and 76mm diameter tubular section steel respectively, flag pole complete with 152mm diameter x 70mm high top cap and 300 x 300mm hinged base plate, flag pole to be equipped with double pulley system in top cap, double halyard and cleat lugs, set up and fixed in position, all in accordance with the materials supplied and methods employed by the Manufacturer (Manufacturer: Flag Craft International, Tel: 011-887 2906)	No	8 640.00	Rate only
9	Standard galvanised mild steel foundation cage 250 x 250 x 500mm high overall, including casting in exact position in top of concrete base, all in accordance with the materials supplied and methods employed by the Manufacturer (Manufacturer: Flag Craft International, Tel: 011-887 2906)	No	1 296.00	Rate only

Carried to Collection

R **Rate only**

Section No. 3
EXTERNAL WORKS
Bill No. 1
GENERAL SITE WORKS
LDoE Standard Rates

Section No. 3

EXTERNAL WORKS

Bill No. 1

GENERAL SITE WORKS

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Rate only

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Rate only

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Rate only

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Rate only

Section No. 3

EXTERNAL WORKS

Bill No. 1

GENERAL SITE WORKS

LDoE Standard Rates

Item	Quantity	Rate	Amount
<u>SECTION NO. 4</u>			
<u>BILL NO. 2</u>			
<u>PAVING, WALKWAYS AND CARPORTS</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Supplementary preambles and full descriptions of materials, items, work, etc. applicable to this Section</u>			
The Contractor is referred to the previous section(s) for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this section, unless specifically otherwise described			
<u>Precast concrete paving</u>			
Paving is to be laid in accordance with SABS 1200 MJ, SABS 1058 and the Concrete Masonry Association's specifications			
Paving is to be laid to herringbone pattern on and including 25mm (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere)			
Clean sand is to be swept into joints between roadstones			
Carried to Collection			R Rate only
Section No. 3 EXTERNAL WORKS Bill No. 2 PAVING, WALKWAYS AND CARPORTS LDoE Standard Rates			

Structural steelwork

All structural steelwork shall comply with SANS 2001-CS1 or SANS 10162 and SANS 14713 as applicable. Structural fasteners shall comply with SANS 10094

Structural steelwork shall be cleaned and prepared by wire brushing in accordance with SANS 10064 and all surfaces shall be primed as specified with a minimum dry film thickness of 30 micrometres before leaving the workshop. Upon delivery to the site and again after erection all bared surfaces shall be made good with similar primer

The contractor shall be responsible for the preparation of all shop detail drawings

Descriptions

No allowance has been made in the mass of steel for rolling margins, rivets, additional materials in welding, decorative or protective treatment nor constructional aids

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 and concrete

Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete

PAVING, PARKING, ETC**Paving to roads, parking and assembly area**

Carried to Collection

R

Rate only

Section No. 3
EXTERNAL WORKS
Bill No. 2
PAVING, WALKWAYS AND CARPORTS
LDoE Standard Rates

	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	4.32	Rate only
	<u>Digging up topsoil</u>			
2	Digging up topsoil to an average depth of 100mm and preserving for later use or cart away from site, as per instruction from the engineer	m2	8.64	Rate only
	<u>Open face excavation in earth over sloping site</u>			
3	Open face excavation to form platforms under parking areas etc and depositing excavated material over site, including haulage not exceeding 800m from perimeter of excavations	m3	47.52	Rate only
	<u>Extra over bulk excavations in earth for excavation in</u>			
4	Soft rock	m3	336.96	Rate only
5	Hard rock	m3	596.16	Rate only
	<u>Extra over all excavations for carting away (2km free haul)</u>			
6	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	56.16	Rate only
	<u>Compaction of surfaces</u>			
7	Compaction of ground surfaces under parking areas etc by wetting and compacting with 12 passes of a 3-sided 25 kilo Joule high energy impact compactor	m2	15.55	Rate only
8	Compaction of ground surfaces under pavings etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m2	15.55	Rate only
Carried to Collection			R	Rate only
Section No. 3 EXTERNAL WORKS Bill No. 2 PAVING, WALKWAYS AND CARPORTS LDoE Standard Rates				

	<u>Selected earth filling obtained from the excavations and/or prescribed stock piles on site</u>			
9	G9 gravel-soil material under parking areas etc, compacted to 93% Mod AASHTO density	m3	47.52	Rate only
	<u>Filling supplied by the contractor under parking areas, roadways, etc</u>			
10	G7 gravel-soil material under parking areas etc, compacted to 93% Mod AASHTO density	m3	336.96	Rate only
11	Subbase course of G5 natural gravel material, compacted to 93% Mod AASHTO density	m3	336.96	Rate only
12	Base course of G5 natural gravel material, compacted to 95% Mod AASHTO density	m3	336.96	Rate only
13	Extra over subbase or base course of natural gravel material for stabilisation with 3% OPC cement	m3	129.60	Rate only
	<u>Additional tests required by the principal agent</u>			
14	Atterberg limits test in accordance with methods A2 to A4 of TMH1	No	518.40	Rate only
15	CBR test in accordance with method A8 of TMH1	No	518.40	Rate only
16	UCS test in accordance with method A14 of TMH1	No	518.40	Rate only
17	"Materials Classification" test	No	518.40	Rate only
	<u>30MPa/19mm In-situ concrete edge beams</u>			
18	Edge beam 200mm wide x 300mm high overall in lengths not exceeding 3m, bedded 150mm deep into roadbed and finished smooth on top with steel float with all external angles rounded, including all necessary excavations, formwork, backfilling, etc.	m	155.52	Rate only
Carried to Collection			R	Rate only
Section No. 3 EXTERNAL WORKS Bill No. 2 PAVING, WALKWAYS AND CARPORTS LDoE Standard Rates				

	<u>"Technicrete Double Zig-Zag" pre-cast concrete interlocking paving (25MPa minimum compressive strength) including cutting and filling in edge restraints against kerbs, edge beams, buildings, etc with approved cemented filling compound, rolling to lock-up condition, etc</u>			
19	60mm Thick natural grey paving to assembly areas, walkways, etc	m2	138.24	Rate only
20	80mm Thick natural grey paving to roads, parking areas, etc	m2	155.52	Rate only
	<u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing</u>			
21	180 x 280mm High kerbs (SANS 927 fig 7) semi-mountable kerb with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc	m	190.08	Rate only
22	180 x 280mm High kerbs (SANS 927 fig 7) semi-mountable kerbs with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint, circular on plan exceeding 4m radius, formed with short lengths of straight kerbs, including excavation, backfilling, etc	m	190.08	Rate only
	<u>"Vanstone" precast concrete channels</u>			
23	320 x 88mm High channel type D7 with segmental channel formed therein and finished smooth on exposed surfaces including necessary excavation and formwork	m	172.80	Rate only
24	320 x 88mm High channel type D7 with segmental channel formed therein and finished smooth on exposed surfaces circular on plan to exceeding 4m radius, including necessary excavation and formwork	m	172.80	Rate only
Carried to Collection			R	Rate only
Section No. 3 EXTERNAL WORKS Bill No. 2 PAVING, WALKWAYS AND CARPORTS LDoE Standard Rates				

Standard road traffic signs

All road markings and signs shall comply with the latest version of the South African Road Traffic Signs Manual.

The retro-reflective material shall be Class 1

25	600mm Diameter "Stop" sign (Code R1), complete with and including 76mm diameter x 2mm tubular section post planted in and including 500 x 500 x 750mm deep 15MPa/19mm mass concrete, including all necessary excavations, formwork, backfilling, etc., post painted with one coat approved etch primer and two coats approved aluminium bitumen paint	No	1 555.20	Rate only
	<u>Etching primer and two coats reflective road marking paint on concrete</u>			
26	100mm Wide line	m	12.96	Rate only
27	300mm Wide line	m	25.92	Rate only
28	Numeral or letter 900mm high	No	345.60	Rate only
29	Disabled parking sign 900mm high	No	345.60	Rate only
30	No-parking sign 900mm high	No	345.60	Rate only
31	Traffic arrow 1200 x 650mm wide extreme	No	345.60	Rate only

WALKWAYS**Covered walkways**

Excavation in earth not exceeding 2m deep

32	Trenches	m3	77.76	Rate only
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
33	Soft rock	m3	267.84	Rate only

Carried to Collection

R

Rate only

Section No. 3
EXTERNAL WORKS
Bill No. 2
PAVING, WALKWAYS AND CARPORTS
LDoE Standard Rates

34	Hard rock	m3		596.16	Rate only
	<u>Extra over all excavations for carting away</u>				
35	Surplus material from excavations on site to a dumping site to be located by the contractor	m3		56.16	Rate only
	<u>Risk of collapse of excavations</u>				
36	Sides of trench and hole excavations not exceeding 1,5m deep	m2		4.32	Rate only
	<u>Keeping excavations free of water</u>				
37	Keeping excavations free of water		Item		Rate only
	<u>Selected earth filling obtained from the excavations and/or prescribed stock piles on site, including haulage approximately 100m from the perimeter of the excavations or stock piles, compacted to 95% Mod. AASHTO density</u>				
38	Under floors, steps, pavings, etc	m3		47.52	Rate only
39	Backfilling to trenches, holes, etc	m3		47.52	Rate only
	<u>Filling of natural gravel material (G5) supplied by the contractor, compacted to 95% Mod AASHTO density</u>				
40	Under floors, steps, paving etc.	m3		302.40	Rate only
	<u>Prescribed density tests on filling</u>				
41	"Modified AASHTO Density" test	No		345.60	Rate only
	<u>Soil poisoning and insecticide</u>				
42	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2		10.37	Rate only
43	To bottoms and sides of trenches etc	m2		10.37	Rate only
Carried to Collection				R	Rate only
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	<u>25MPa/19mm Reinforced concrete cast against excavated surfaces</u>			
44	Strip footings	m3	1 814.40	Rate only
	<u>25MPa/19mm Reinforced concrete</u>			
45	Walkway surface beds cast in panels to falls	m3	1 814.40	Rate only
	<u>Test cubes</u>			
46	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes	No	345.60	Rate only
	<u>Finishing top surfaces of concrete to an evenly ribbed non-slip surface with a wood float</u>			
47	Walkway surface beds to falls	m2	16.42	Rate only
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete surfaces</u>			
48	10mm Joints not exceeding 300mm high	m	34.56	Rate only
	<u>Saw cut</u>			
49	5 x 35mm Deep saw cut joint in concrete floor	m	21.60	Rate only
	<u>Mild steel reinforcement to structural concrete work</u>			
50	8mm Diameter bars	t	16 416.00	Rate only
	<u>High tensile steel reinforcement to structural concrete work</u>			
51	10mm Diameter bars	t	16 416.00	Rate only
	<u>Fabric reinforcement</u>			
52	Type 193 fabric reinforcement in concrete walkway surface beds, etc	m2	64.80	Rate only
Carried to Collection			R	Rate only
Section No. 3 EXTERNAL WORKS Bill No. 2 PAVING, WALKWAYS AND CARPORTS LDoE Standard Rates				

	<u>Brickwork of NFP bricks in class II mortar in foundations</u>			
53	One brick walls	m2	449.28	Rate only
	<u>Brickwork reinforcement</u>			
54	150mm Wide reinforcement built in horizontally	m	2.59	Rate only
	<u>"Corobrik Middelwit Fynbos Geel" face bricks pointed with recessed horizontal and vertical joints</u>			
55	Extra over brickwork for face brickwork	m2	138.24	Rate only
	<u>"Corobrik Middelwit Fynbos Geel" brick-on-edge header course copings, sills, etc pointed with recessed joints on all exposed faces</u>			
56	220mm Copings on top of one brick walls	m	95.04	Rate only
	<u>Silicone sealing compound including backing cord, bond breaker, primer, etc</u>			
57	5 x 30mm Deep saw cut joint in floor	m	12.96	Rate only
	<u>0,5mm "Global Roofing Solutions Klip-Tite" Z275 (Light Industrial) galvanised troughed sheet steel complying with ISQ 550 (3T) (A653) with a "Chromadek" finish to one side and standard backing coat, Pebble Grey to other, fixed on top of rigid board insulation to steel purlins or rails</u>			
58	Roof covering with pitch not exceeding 25 degrees	m2	250.56	Rate only
	<u>Welded columns in single lengths with flat base plates, bolted to concrete</u>			
59	75 x 75 x 3mm Square hollow section columns	t	30 240.00	Rate only
	<u>Welded beams in single lengths, welded to steel columns</u>			
60	75 x 75 x 3mm Square hollow section beams	t	30 240.00	Rate only
Carried to Collection			R	Rate only
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	<u>Bolts to columns, beams, etc</u>			
61	10mm Diameter x 95mm long sleeved masonry anchor bolt	No	38.88	Rate only
	<u>Purlins, girts and bracing welded to steel</u>			
62	75 x 50 x 20 x 2.5mm Lipped channel section purlins welded or bolted to brackets	t	30 240.00	Rate only
63	100 x 8mm Thick flat section connection plate, 100mm long welded to beams	No	34.56	Rate only
	<u>Untinted wood floated granolithic on concrete</u>			
64	Average 45mm thick to floors and landings to falls	m2	103.68	Rate only
	<u>One coat primer, one coat universal undercoat and two coats super universal enamel paint on steel</u>			
65	On structural steel members	m2	69.12	Rate only
	<u>CARPORTS</u>			
	<u>The following in 18 double bay undercover carports</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
66	Bases	m3	82.08	Rate only
	<u>20MPa/19mm unreinforced concrete cast against excavated surfaces</u>			
67	Bases	m3	1 814.40	Rate only
	<u>0,58mm "Global Roofing Solutions IBR 686" spelter galvanised troughed steel sheets in single lengths with "Chromadek" finish of approved standard colour on one side and standard grey backing finish on reverse side, fixed to steel purlins and rails</u>			
68	Roof covering with pitches not exceeding 25 degrees	m2	250.56	Rate only
	Carried to Collection		R	Rate only
	Section No. 3 EXTERNAL WORKS Bill No. 2 PAVING, WALKWAYS AND CARPORTS LDoE Standard Rates			

	<u>Welded columns in single lengths with flat base plates, bolted to concrete</u>			
69	75mm Diameter x 3mm hollow section columns with 100 x 100 x 6mm flat section top plates and base plates welded on and embedded in concrete bases	t	30 240.00	Rate only
	<u>Welded beams in single lengths, welded to steel columns</u>			
70	100 x 55mm x 8kg/m I-section beams	t	30 240.00	Rate only
	<u>Welded fascias in single lengths, welded to steel columns</u>			
71	200 x 75 x 20 x 2.5mm Thick lipped channel fascias	t	30 240.00	Rate only
	<u>Purlins and girts, with flat connector plates bolted to and including angle fixing brackets, welded to steel beams</u>			
72	125 x 65 x 20 x 2.5mm Thick lipped channel purlins	t	30 240.00	Rate only
	<u>Two coats approved bitumastic paint</u>			
73	On columns and base plates	m2	69.12	Rate only
	<u>Spot priming defects in pre-primed surfaces with "Plascon Metalcare Etch Primer Red-Oxide (SNK200)", prime with "Plascon Metalcare Galvanised Iron Primer" (UC501) and apply two finishing coats "Plascon Super Universal Enamel" paint</u>			
74	On columns, beams, purlins, etc	m2	69.12	Rate only
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EXTERNAL WORKS

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PAVING, WALKWAYS AND CARPORTS

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EXTERNAL WORKS

Bill No. 2

PAVING, WALKWAYS AND CARPORTS

LDoE Standard Rates

Item	Quantity	Rate	Amount
<u>SECTION NO. 4</u>			
<u>BILL NO. 3</u>			
<u>APRONS, RAMPS, STEPS, ETC</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Supplementary preambles and full descriptions of materials, items, work, etc. applicable to this Section</u>			
The Contractor is referred to the previous section(s) for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this section, unless specifically otherwise described			
<u>Aprons</u>			
Aprons to be cast into alternate sections of 1.5m to form construction joint between panels			
<u>APRONS</u>			
<u>Aprons around buildings</u>			
<u>Compaction of surfaces</u>			
1	Compaction of ground surface under aprons, 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	15.55
			Rate only
	Carried to Collection	R	Rate only
Section No. 3 EXTERNAL WORKS Bill No. 3 APRONS, RAMPS, STEPS, ETC LDoE Standard Rates			

	<u>20MPa/19mm unreinforced concrete</u>			
2	Aprons cast in panels	m3	1 814.40	Rate only
3	Extra over concrete aprons for thickening size 150mm deep, 200mm top and tapering to 100mm at bottom including all excavation to 100mm, backfilling, etc.	m	95.04	Rate only
	<u>Finishing top surfaces of concrete smooth with a wood trowel</u>			
4	Aprons, etc to falls	m2	16.42	Rate only
	<u>Rough formwork to sides</u>			
5	Edges of aprons not exceeding 300mm high or wide	m	95.04	Rate only
	<u>RAMPS</u>			
	<u>Ramps to buildings</u>			
	<u>Excavation in earth or compacted platforms not exceeding 2m deep</u>			
6	Trenches	m3	77.76	Rate only
	<u>Risk of collapse of excavations</u>			
7	Sides of trench and hole excavations not exceeding 1,5m deep	m2	4.32	Rate only
	<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>			
8	Under floors, steps, paving, etc	m3	47.52	Rate only
9	Backfilling to trenches, holes, etc	m3	47.52	Rate only
	Carried to Collection		R	Rate only
	Section No. 3 EXTERNAL WORKS Bill No. 3 APRONS, RAMPS, STEPS, ETC LDoE Standard Rates			

	<u>Compaction of surfaces</u>			
10	Compaction of ground surface under ramps, 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	15.55	Rate only
	<u>Prescribed density tests on filling</u>			
11	"Modified AASHTO Density" test	No	345.60	Rate only
	<u>Soil poisoning and insecticide</u>			
12	Under ramps, etc including forming and poisoning shallow furrows against foundation walls, etc, filling in furrows and ramming	m2	10.37	Rate only
13	To bottoms and sides of trenches, etc	m2	10.37	Rate only
	<u>15MPa/19mm unreinforced concrete</u>			
14	Ramps laid in panels	m3	1 555.20	Rate only
15	Extra over concrete ramps for thickening size 150mm deep, 200mm top and tapering to 100mm at bottom including all excavation to 100mm, backfilling, etc.	m	95.04	Rate only
	<u>Finishing top surfaces of concrete smooth with a wood trowel</u>			
16	Ramps to falls	m2	16.42	Rate only
	<u>Brickwork of NFX bricks in class I mortar</u>			
17	One brick walls in foundations	m2	449.28	Rate only
	<u>Brickwork reinforcement</u>			
18	150mm Wide reinforcement built in horizontally in foundations	m	2.59	Rate only
	Carried to Collection		R	Rate only
	Section No. 3 EXTERNAL WORKS Bill No. 3 APRONS, RAMPS, STEPS, ETC LDoE Standard Rates			

	<u>Face bricks specified and approved by the Principal Agent (Prime cost of R3,500.00/1000 VAT excluded, delivered to site) pointed with recessed horizontal and vertical joints</u>			
19	Extra over brickwork for face brickwork in foundations	m2	138.24	Rate only
	<u>Brick-on-edge header course copings, sills, etc of face bricks specified and approved by the Principal Agent (Prime cost of R3,500.00/1000 VAT excluded, delivered to site) pointed with recessed joints on all exposed faces</u>			
20	Coping on top of one brick wall	m	95.04	Rate only
	<u>STEPS</u>			
	<u>Steps to buildings</u>			
	<u>15MPa/19mm unreinforced concrete</u>			
21	Steps	m3	1 555.20	Rate only
	<u>Rough formwork to sides</u>			
22	Stepped outer edges of steps	m2	224.64	Rate only
23	Edges of aprons not exceeding 300mm high or wide	m	95.04	Rate only
	<u>Untinted steel floated granolithic on concrete</u>			
24	30mm Thick to stepped outer edges of steps	m2	95.04	Rate only
25	30mm Thick to risers of steps	m2	95.04	Rate only
26	30mm Thick to treads of steps including reedings	m2	95.04	Rate only
Carried to Collection			R	Rate only
Section No. 3 EXTERNAL WORKS Bill No. 3 APRONS, RAMPS, STEPS, ETC LDoE Standard Rates				

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EXTERNAL WORKS

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APRONS, RAMPS, STEPS, ETC

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EXTERNAL WORKS

Bill No. 3

APRONS, RAMPS, STEPS, ETC

LDoE Standard Rates

Item		Quantity	Rate	Amount
<u>SECTION NO. 4</u>				
<u>BILL NO. 4</u>				
<u>SCREEN WALLS, FENCING AND GATES</u>				
<u>PREAMBLES</u>				
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Supplementary preambles and full descriptions of materials, items, work, etc. applicable to Section No. 4</u>				
The Contractor is referred to the previous section(s) for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this section, unless specifically otherwise described				
<u>Mixing of concrete</u>				
No hand mixing of concrete will be allowed on site				
<u>SCREEN WALLS</u>				
<u>Excavation in earth or compacted platforms not exceeding 2m deep</u>				
1	Trenches	m3	77.76	Rate only
<u>Extra over trench and hole excavations in earth for excavation in</u>				
2	Soft rock	m3	267.84	Rate only
3	Hard rock	m3	596.16	Rate only
Carried to Collection			R	Rate only
Section No. 3 EXTERNAL WORKS Bill No. 4 SCREEN WALLS, FENCING AND GATES LDoE Standard Rates				

	<u>Extra over all excavations for carting away</u>			
4	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	56.16	Rate only
	<u>Risk of collapse of excavations</u>			
5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	4.32	Rate only
	<u>Keeping excavations free of water</u>			
6	Keeping excavations free of water	Item		Rate only
	<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>			
7	Backfilling to trenches, holes, etc	m3	47.52	Rate only
	<u>Prescribed density tests on filling</u>			
8	"Modified AASHTO Density" test	No	345.60	Rate only
	<u>15MPa/19mm unreinforced concrete</u>			
9	Strip footings	m3	1 900.80	Rate only
	<u>Test cubes</u>			
10	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith (one block to be tested after 7 days)	Sets	345.60	Rate only
	<u>Brickwork of NFX bricks in class I mortar</u>			
11	One brick walls in foundations	m2	449.28	Rate only
Carried to Collection			R	Rate only
Section No. 3 EXTERNAL WORKS Bill No. 4 SCREEN WALLS, FENCING AND GATES LDoE Standard Rates				

	<u>Brickwork reinforcement</u>			
12	150mm Wide reinforcement built in horizontally in foundations	m	2.59	Rate only
	<u>"Corobrik Fynbos Geel" face bricks pointed with recessed horizontal and vertical joints</u>			
13	Extra over brickwork for face brickwork in foundations	m2	138.24	Rate only
	<u>Brickwork of NFP bricks in class II mortar</u>			
14	One brick walls	m2	449.28	Rate only
	<u>Brickwork reinforcement</u>			
15	150mm Wide reinforcement built in horizontally	m	2.59	Rate only
	<u>"Corobrik Fynbos Geel" face bricks pointed with recessed horizontal and vertical joints</u>			
16	Extra over brickwork for face brickwork	m2	138.24	Rate only
	<u>Brick-on-edge header course copings, sills, etc of "Corobrik Fynbos Geel" face bricks pointed with recessed joints on all exposed faces</u>			
17	Coping on top of one brick wall	m	138.24	Rate only
	<u>Fencing</u>			
	Fencing to be done by a company with ISO 9001 accreditation			
	Shop drawings for both gates and panels to be submitted to the principal agent prior to fixing for approval			
	A ten year anti-corrosion guarantee to be provided			
	The contractor must provide a Certificate of Compliance for material and installation issued by either the manufacturer and/or the civil engineer			
	Carried to Collection		R	Rate only
	Section No. 3 EXTERNAL WORKS Bill No. 4 SCREEN WALLS, FENCING AND GATES LDoE Standard Rates			

Gates

Gates shall be of type, size and material as specified and shall be fixed to gate posts unless otherwise described

All gates shall be hot dipped galvanised

FENCING, GATES, ETCUpgrading of existingSteel palisade fencing

18	"Macsteel" steel palisade fencing 2400mm high with devils fork spikes installed complete by a firm of specialists including all necessary excavations, concrete bases, posts, paint, etc	m	734.40	Rate only
19	Single gate 1000 x 2400mm high to match fence including suitable 150mm sliding bolt welded on	No	3 024.00	Rate only
20	Double gate 1800 x 2400mm high to match fence including suitable barrel bolt and 150mm sliding bolt welded on	No	3 888.00	Rate only
21	Diamond mesh security fencing 1800mm including corner post, intermediate posts, wiring, gates, etc as directed including painting and straightening and leave in a perfect working order, all to the satisfaction of the Principal Agent	m	216.00	Rate only
22	Double gate 3000 x 2400mm high to match fence including suitable barrel bolt and 150mm sliding bolt welded on	No	6 048.00	Rate only

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SCREEN WALLS, FENCING AND GATES
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23	Sliding gate 5000 x 2400mm high of 50 x 76 x 2.5mm tubular section framed surround, mitred and welded at angles, one 50 x 76 x 2.5mm tubular section horizontal middle rail and two 50 x 76 x 2.5mm mullions, filled in with 12 x 12mm square section vertical bars at 100mm centres and gate fitted with suitable sliding rollers and sliding track bedded in concrete including end stop, latch for padlock, etc (electrical motor and cable elsewhere)	No	9 504.00	Rate only
	<u>"ClearVu" fencing and gates</u>			
24	"ClearVu" basic security invisible steel wall fencing 1800mm high with galvanised high density pressed mesh panels of 3mm minimum diameter tensile wires fixed to vertical reinforced tube frame with minimum 5mm thick flat bar including excavation, 15MPa bases of size 450 x 450 x 600mm deep, backfill, compaction, etc installed complete by a firm of specialists	m	1 382.40	Rate only
25	Single gate 1600 x 1800mm high to match fence including 150mm sliding bolt welded on	No	3 024.00	Rate only
26	Sliding gate 5000 x 1800mm high to match fence including suitable sliding rollers and sliding track bedded in concrete end stop, latch for padlock, posts, etc (electrical motor and cable elsewhere)	No	9 504.00	Rate only
	<u>Ironmongery</u>			
27	50mm "Union" UN33403X000200 brass padlock	No	129.60	Rate only
	<u>Spot priming defects in pre-primed surfaces with "Plascon Metalcare Etch Primer Red-Oxide (SNK200)", prime with "Plascon Metalcare Galvanised Iron Primer" (UC501) and apply two finishing coats "Plascon Super Universal Enamel" paint</u>			
28	On gates, etc (both sides measured over the full flat area)	m2	69.12	Rate only
Carried to Collection			R	Rate only
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SCREEN WALLS, FENCING AND GATES

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SCREEN WALLS, FENCING AND GATES

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<u>BILL NO. 5</u>			
<u>SITE SERVICES</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Supplementary preambles and full descriptions of materials, items, work, etc. applicable to this Section</u>			
The Contractor is referred to the previous section(s) for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this section, unless specifically otherwise described			
<u>Stormwater channels</u>			
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site			
<u>French drains</u>			
Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, "?" geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site			
Carried to Collection			R Rate only
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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

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

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

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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

Structural steel

Descriptions of bolts shall be deemed to include nuts and washers

Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete

Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete

All structural steel to be painted with one coat red oxide metal primer before delivery to site

STORMWATER DRAINAGEEarth V-drains

1	V-drain, 1000 x 200mm deep as per drawings including excavation, shaping, compaction, carting away of excessive excavated material, etc	m	86.40	Rate only
2	V-drain, 2000 x 500mm deep as per drawings including excavation, shaping, compaction, carting away of excessive excavated material, etc	m	103.68	Rate only

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<u>Concrete V-drains</u>				
3	V-drain, 2000 x 350mm deep as per drawings including excavation, shaping, compaction, carting away of excessive excavated material, concrete, formwork, etc	m	777.60	Rate only
<u>Inlet/outlet structures</u>				
4	Inlet and outlet structures as per drawings including excavation, shaping, compaction, backfilling, carting away of excessive excavated material, concrete, formwork, etc	No	3 456.00	Rate only
<u>SOIL DRAINAGE</u>				
<u>Excavation, filling, etc</u>				
5	Excavation in earth not exceeding 1m deep for pipe trenches	m3	77.76	Rate only
6	Excavation in earth exceeding 1m and not exceeding 2m deep for pipe trenches	m3	103.68	Rate only
7	Excavation in earth exceeding 2m and not exceeding 3m deep for pipe trenches	m3	138.24	Rate only
8	Backfilling to pipe trenches from excavations or stock piles on site compacted to 90% Mod AASHTO density	m3	47.52	Rate only
9	Selected backfilling to pipe trenches from excavations or stock piles on site compacted to 90% Mod AASHTO density	m3	47.52	Rate only
10	Selected granular filling from the excavations or stock piles on site in bedding under and filling around pipes compacted to 90% Mod AASHTO density	m3	47.52	Rate only
<u>Class 34 heavy duty PVC-U structured wall sewer and drain pipes</u>				
11	110mm Diameter pipes in trenches	m	95.04	Rate only
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Section No. 3 EXTERNAL WORKS Bill No. 5 SITE SERVICES LDoE Standard Rates				

12	160mm Diameter pipes in trenches	m	138.24	Rate only
	<u>Extra over Class 34 heavy duty PVC-U sewer and drain pipes for fittings</u>			
13	110mm Bend	No	95.04	Rate only
14	160mm Bend	No	159.84	Rate only
15	110mm Junction	No	129.60	Rate only
16	160mm Junction	No	190.08	Rate only
17	110mm Access junction	No	146.88	Rate only
18	160mm Access junction	No	198.72	Rate only
19	160 x 110mm Access reducing junction	No	224.64	Rate only
20	110mm Rodding eye	No	216.00	Rate only
21	160mm Rodding eye	No	302.40	Rate only
	<u>Precast concrete circular inspection chambers, including excavations, concrete base, benching, step irons, rings, spacers, roof slabs, piping, etc installed complete (covers elsewhere)</u>			
22	1050mm Diameter Type 1A inspection chamber exceeding 1m and not exceeding 1.5m deep internally	No	2 592.00	Rate only
23	1050mm Diameter Type 1A inspection chamber exceeding 1.5m and not exceeding 2m deep internally	No	3 456.00	Rate only
24	1050mm Diameter Type 1A inspection chamber exceeding 2m and not exceeding 2.5m deep internally	No	4 320.00	Rate only
	<u>Cast iron covers etc</u>			
25	550mm Diameter x 71kg medium duty singular seal Type 4 hinged manhole cover and frame	No	3 456.00	Rate only
Carried to Collection			R	Rate only
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	<u>"Calcamite" tanks</u>			
26	15500 Litre SABS approved PVC tank installed complete including excavation, backfilling, 150mm thick reinforced concrete slab, fittings, etc	No	43 200.00	Rate only
	<u>"Quick4" soak away chamber systems</u>			
27	"Quick4" soak away installed complete as per drawings including excavation, backfilling, etc	m	648.00	Rate only
	<u>Sundries</u>			
28	Extra over excavation for trenches, chambers, etc for excavation in soft rock	m3	276.48	Rate only
29	Extra over excavation for trenches, chambers, etc for excavation in hard rock	m3	596.16	Rate only
30	265 x 265mm x 9kg Class 14A cast iron cover and frame over rodding eye (rodding eye elsewhere), including concrete encasing	No	820.80	Rate only
31	300 x 300 x 50mm Precast concrete inspection eye marker slab set in ground	No	475.20	Rate only
32	110mm uPVC gulley head and grating	No	34.56	Rate only
33	110mm uPVC gulley P-trap not exceeding 500mm deep	No	207.36	Rate only
34	445 x 430 x 165mm Precast concrete dished gulley top	No	82.08	Rate only
35	Cutting into existing 110mm drain pipe for and forming junction with 110mm pipe	No	604.80	Rate only
36	Cutting into side of existing inspection chamber for and connecting 110mm pipe, including inserting 110mm channel junction and making good concrete benching	No	604.80	Rate only
	Carried to Collection		R	Rate only
	Section No. 3 EXTERNAL WORKS Bill No. 5 SITE SERVICES LDoE Standard Rates			

37	Testing soil drainage system		Item		Rate only
	<u>Grease trap at nutrition</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
38	Grease traps	m3		77.76	Rate only
	<u>Risk of collapse of excavations</u>				
39	Sides of grease trap excavation not exceeding 1,5m deep	m2		4.32	Rate only
	<u>20MPa/19mm concrete</u>				
40	Surface beds	m3		1 728.00	Rate only
	<u>20MPa/19mm concrete</u>				
41	Slabs	m3		1 728.00	Rate only
	<u>Smooth formwork to sides</u>				
42	Edges of cover slabs not exceeding 300mm high or wide	m		95.04	Rate only
	<u>Rough formwork to soffits</u>				
43	Cover slabs	m2		328.32	Rate only
	<u>Boxing in smooth formwork to form</u>				
44	25 x 25mm Chamfer along top edge	m		51.84	Rate only
	<u>Smooth formwork to form</u>				
45	Opening 450 x 450mm through not exceeding 300mm slab	No		475.20	Rate only
46	Opening 450 x 600mm through not exceeding 300mm slab	No		561.60	Rate only
Carried to Collection				R	Rate only
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	<u>Mesh reinforcement</u>			
47	Ref 395 Mesh steel fabric reinforcement laid in slabs, etc. lapped minimum 150mm along edges and ends (Measured net)	m2	73.44	Rate only
	<u>Brickwork of NFP bricks in class II mortar</u>			
48	One brick walls	m2	449.28	Rate only
	<u>Brickwork reinforcement</u>			
49	150mm Wide reinforcement built horizontally	m	2.59	Rate only
	<u>Steel floated benching on concrete</u>			
50	Average 50mm Thick to floors	m2	112.32	Rate only
	<u>Cement plaster on brickwork</u>			
51	On walls	m2	69.12	Rate only
	<u>Stainless steel sieves</u>			
52	450 x 580 x 90mm deep x 2mm thick 3CR12 stainless steel sieve with 50mm perforations including 800mm long handle	No	691.20	Rate only
53	20 x 8mm Thick 3CR12 stainless steel supports, 550mm long, cast into concrete	No	259.20	Rate only
	<u>PVC-U piping</u>			
54	110mm Diameter drain pipes	m	73.44	Rate only
55	Extra over PVC-U piping for 110mm bend	No	95.04	Rate only
56	Extra over PVC-U piping for 110mm end stop	No	77.76	Rate only
	<u>Cast iron piping</u>			
57	100mm Diameter pipe, laid in ground not exceeding 1m deep	m	820.80	Rate only
Carried to Collection			R	Rate only
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	<u>Excavation, filling, etc</u>			
65	Excavation in earth not exceeding 1m deep for pipe trenches	m3	77.76	Rate only
66	Backfilling to pipe trenches from excavations or stock piles on site compacted to 90% Mod AASHTO density	m3	47.52	Rate only
67	Selected backfilling to pipe trenches from excavations or stock piles on site compacted to 90% Mod AASHTO density	m3	47.52	Rate only
68	Selected granular filling from the excavations or stock piles on site in bedding under and filling around pipes compacted to 90% Mod AASHTO density	m3	47.52	Rate only
	<u>Class 16 PVC-U pressure pipes with rubber ring joints</u>			
69	50mm Diameter pipes in trenches	m	51.84	Rate only
70	63mm Diameter pipes in trenches	m	73.44	Rate only
71	110mm Diameter pipes in trenches	m	103.68	Rate only
	<u>Extra over class 16 PVC-U pressure pipes for uPVC pressure fittings with rubber rings</u>			
72	50mm Elbow	No	129.60	Rate only
73	63mm Elbow	No	172.80	Rate only
74	110mm Elbow	No	259.20	Rate only
75	50mm Tee	No	129.60	Rate only
76	50 x 25mm Male adaptor	No	112.32	Rate only
	<u>Extra over class 16 PVC-U pressure pipes for cast iron pressure fittings</u>			
77	63 x 50mm Reducer	No	216.00	Rate only
	Carried to Collection		R	Rate only
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78	110 x 50mm Reducer	No	259.20	Rate only
79	63mm Tee	No	302.40	Rate only
80	110mm Tee	No	432.00	Rate only
81	63 x 50 x 63mm Reducing tee	No	345.60	Rate only
82	110 x 50 x 110mm Reducing tee	No	432.00	Rate only
83	110 x 63 x 110mm Reducing tee	No	509.76	Rate only
84	50mm End cap	No	155.52	Rate only
85	50 x 25mm Saddle	No	259.20	Rate only
86	63 x 25mm Saddle	No	302.40	Rate only
87	110 x 25mm Saddle	No	302.40	Rate only
88	63mm Flanged adaptor	No	432.00	Rate only
89	110mm Flanged adaptor	No	604.80	Rate only
90	110mm Hydrant tee drilled to table 16, including connecting bolts, gaskets, etc	No	691.20	Rate only
<u>Class 10 HDPe type PE 100 pipes in accordance with SANS 533 Specification</u>				
91	25mm Diameter pipes in trenches	m	24.19	Rate only
92	50mm Diameter pipes in trenches	m	43.20	Rate only
<u>Extra over Class 10 HDPe type PE 100 pipes for Class 16 compression fittings</u>				
93	25mm Fittings	No	12.96	Rate only
94	50mm Elbow	No	133.92	Rate only
95	50 x 25mm Male adaptor	No	112.32	Rate only
Carried to Collection			R	Rate only
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	<u>20MPa/19mm concrete</u>			
106	Bases for portal frame 300 x 300 x 300mm high including necessary excavation, formwork, etc	No	388.80	Rate only
107	Sloping surface beds 2250 x 1000 x 100mm thick including necessary excavation, formwork, etc	No	1 036.80	Rate only
	<u>Finishing top surfaces of concrete smooth with a wood trowel</u>			
108	Surface beds to falls	m2	16.42	Rate only
	<u>Portal frames</u>			
109	100 x 50 x 11mm Thick mild steel portal frame, 3718mm girth with two 200 x 200 x 4mm flat section base plates welded on and cast into concrete bases (bases elsewhere)	No	734.40	Rate only
	<u>Class 0 copper pipes</u>			
110	22mm Pipes	m	38.88	Rate only
	<u>Extra over class 0 copper pipes for capillary fittings</u>			
111	22mm Fittings	No	23.33	Rate only
	<u>Taps, etc</u>			
112	25mm "Cobra Ref. 1001/125-25" brass fullway gate valve	No	103.68	Rate only
113	25mm "Cobra Ref. 211-25CP Star" pillartap	No	250.56	Rate only
114	25mm Cast brass in-line strainer	No	216.00	Rate only
	<u>Concrete pipes</u>			
115	Soakaway formed of 750mm diameter concrete pipe, 1200mm long, placed vertically below surface beds and filled in with 19mm stone including excavation, backfilling, etc	No	1 036.80	Rate only
Carried to Collection			R	Rate only
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Borehole and equipment

116	Allow the provisional sum of R200,000 (Two hundred thousand Rand) for geohydrological survey, drilling and testing of borehole	Item	Rate only
117	Allow for profit on above if required	Item	Rate only
118	Allow for attendance	Item	Rate only
119	Allow the provisional sum of R100,000 (One hundred thousand Rand) for equipment of borehole including all pumps, piping, electrical work, etc	Item	Rate only
120	Allow for profit on above if required	Item	Rate only
121	Allow for attendance	Item	Rate only

Water holding tanks and stands

122	Allow the provisional sum of R100,000 (One hundred thousand Rand) for the supply and installation of a 6m high steel stand and platform with 3 x 10000 litre tanks complete including all pipework, valves, float valves, excavations, bases, electrical work, etc	Item	Rate only
123	Allow for profit on above if required	Item	Rate only
124	Allow for attendance	Item	Rate only

Carried to Collection

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Rate only

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EXTERNAL WORKS

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EXTERNAL WORKS

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Bill		Page	Amount
1	GENERAL SITE WORKS	117	Rate only
2	PAVING, WALKWAYS AND CARPORTS	129	Rate only
3	APRONS, RAMPS, STEPS, ETC	134	Rate only
4	SCREEN WALLS, FENCING AND GATES	140	Rate only
5	SITE SERVICES	155	Rate only

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Section No. 3
EXTERNAL WORKS
LDoE Standard Rates

Item	Quantity	Rate	Amount
<u>SECTION NO. 5</u>			
<u>ELECTRICAL INSTALLATION (PROVISIONAL)</u>			
<u>BILL NO. 1</u>			
<u>ELECTRICAL RETICULATION</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Supplementary preambles and full descriptions of materials, items, work, etc. applicable to this Section</u>			
The Contractor is referred to the previous section(s) for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this section, unless specifically otherwise described			
<u>Specification and drawings</u>			
Tenderers are referred to the Electrical Specification and drawings annexed to these bills of quantities for full descriptions of the project specification, materials to be used, etc			
<u>Qualifications for electrical work</u>			
All electrical work under this contract must be performed by a Master Installation Electrician and the main contractor must provide proof to the Principal Agent for his approval of the electrical sub-contractor before the work commence			
Carried to Collection			R Rate only
Section No. 4 ELECTRICAL INSTALLATION Bill No. 1 ELECTRICAL RETICULATION LDoE Standard Rates			

If, for any reason whatsoever, the Principal Agent rejects the usage of the electrical sub-contractor, alternative tenders will be issued for nominated/selected electrical sub-contractors to the satisfaction of the Principal Agent. The prices used for pricing of the electrical installation will, however, remain fixed as tendered and no adjustment will be made to the tendered amount of the electrical Section of the works

MAIN SUPPLY AND EQUIPMENT

Transformers, etc

- 1 Allow the amount of R150,000 (One hundred and fifty thousand Rand) for the application, upgrade and installation of a 25kVA distribution transformer complete with metering unit, any other accessories, etc

Item

Rate only

- 2 Allow for profit on above if required

Item

Rate only

- 3 Allow for attendance

Item

Rate only

Kiosks, etc

Distribution kiosk (IP65 rated) complete with sheetmetal tray, frames, sub-frames, busbars, provision for future circuit breakers, legend card, circuit breakers, fuses, relay, volt-meter, ammeter, transformer, earth leakage unit, time switch, etc installed on and including concrete base

- 4 Distribution kiosk as per drawings and specification installed complete

No

38 880.00

Rate only

LOW TENSION DISTRIBUTION

Cables, etc

Carried to Collection

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Rate only

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600/1000 V PVC/SWA/PVC stranded copper conductor
laid in trenches (trenching and backfilling measured
elsewhere)

5	16mm ² x 3-Core	m	129.60	Rate only
6	16mm ² x 4-Core	m	120.96	Rate only
7	25mm ² x 4-Core	m	211.68	Rate only
8	35mm ² x 4-Core	m	276.48	Rate only

Cable terminations

Termination for 600/1000 V PVC/PVC/SWA/PVC
copper cables including glands, shrouds, lugs,
connections, etc

9	16mm ² x 3-Core	No	86.40	Rate only
10	16mm ² x 4-Core	No	172.80	Rate only
11	25mm ² x 4-Core	No	250.56	Rate only
12	35mm ² x 4-Core	No	388.80	Rate only

Earth conductors

Bare copper earth conductors laid with cable in
trenches (trenches elsewhere) and bonded to cables
with plastic strapping at 1m intervals

13	10mm ²	m	34.56	Rate only
14	16mm ²	m	51.84	Rate only
15	25mm ²	m	77.76	Rate only

Cable trenches

Carried to Collection

R **Rate only**

Section No. 4
ELECTRICAL INSTALLATION
Bill No. 1
ELECTRICAL RETICULATION
LDoE Standard Rates

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Luminaries

Luminaries or equipment complete with lamps, control gear, connections, etc mounted in position

26	Open channel ceiling mounted fluorescent light fitting, 1200mm long fitted with 2 x 36W T8 lamps and electronic ballast (type AV) installed under roofs of carports	No	1 209.60	Rate only
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Cables, etc

PVC insulated stranded copper conductors laid in trenches (trenching and backfilling measured elsewhere) or installed below carport roofs

27	2.5mm ² x 3-Core	m	43.20	Rate only
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Carried to Collection

R **Rate only**

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ELECTRICAL INSTALLATION
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ELECTRICAL RETICULATION
LDoE Standard Rates

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ELECTRICAL INSTALLATION

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ELECTRICAL RETICULATION

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ELECTRICAL INSTALLATION

Bill No. 1

ELECTRICAL RETICULATION

LDoE Standard Rates

Item	Quantity	Rate	Amount
<u>SECTION NO. 5</u>			
<u>ELECTRICAL DISTRIBUTION, ETC</u>			
<u>BILL NO. 1</u>			
<u>ELECTRICAL DISTRIBUTION</u>			
<u>PREAMBLES</u>			
For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Supplementary preambles and full descriptions of materials, items, work, etc. applicable to this Section</u>			
The Contractor is referred to the previous section(s) for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this section, unless specifically otherwise described			
<u>Specification and drawings</u>			
Tenderers are referred to the Electrical Specification and drawings annexed to these bills of quantities for full descriptions of the project specification, materials to be used, etc			
<u>Distribution boards etc</u>			
Rates for distribution boards etc are to include for busbars, jumpers, neutral bars, internal wiring and connections, circuit identification markers, control gear labels, circuit legend cards and working drawings			
Carried to Collection		R	Rate only
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Switches, socket outlets, etc

Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates

Light fittings

Rates for light fittings are to include for hanging, fixing and connecting and for lamp holders and fluorescent tubes and lamps of the type and wattage described

Certificates of Compliance

Contractor to note that Certificates of Compliance must be issued for all separate buildings, reticulation, etc. as directed by and to the satisfaction of the Principal Agent

DISTRIBUTION BOARDS, SLEEVES, ETC**Low tension distribution boards**

Flush mounted distribution boards as per drawings and specification complete with trays, doors, frames, sub-frames, busbars, circuit breakers, earth leakage units, isolators, contactors, provision for future circuit breakers, etc

1	60A 220V Distribution board (Guard house)	No	6 480.00	Rate only
2	60A 220V Distribution board (Four classrooms)	No	6 912.00	Rate only
3	60A 220V Distribution board (Medium Admin)	No	15 552.00	Rate only
4	60A 220V Distribution board (Nutrition Centre)	No	9 072.00	Rate only

Telephone and data distribution boards

Carried to Collection

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	<u>Distribution boards complete with trays, doors, frames, sub-frames, 20mm softboard backing, etc</u>			
5	450 x 450 x 150mm Deep distribution box	No	2 160.00	Rate only
	<u>Outlets including outlet boxes, cover plates and all connections to conduit</u>			
6	Data outlet	No	159.84	Rate only
7	Telephone outlet	No	159.84	Rate only
	<u>Sleeves</u>			
	<u>uPVC sleeve piping including short lengths and jointing, laid in trenches under floors, chased in walls, built into walls, etc including excavation and backfilling</u>			
8	75mm Diameter pipe	m	56.16	Rate only
9	75mm Bend	No	47.52	Rate only
	<u>GENERAL LIGHTING AND POWER</u>			
	<u>Conduit, etc</u>			
	<u>Rigid PVC conduit placed in position for casting in concrete, surface bed or screed, for building or chased into brickwork and for surface mounting in ceiling space including bending, jointing short lengths, couplings, bends, tees, saddles, etc</u>			
10	20mm Diameter	m	25.92	Rate only
11	25mm Diameter	m	30.24	Rate only
	<u>PVC type draw boxes, wall boxes, etc fixed onto conduit including locknuts, bushes, covers, etc</u>			
12	Round conduit box for 20mm diameter conduit	No	34.56	Rate only
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	<u>Galvanised steel draw boxes, wall boxes, etc fixed onto conduit including locknuts, bushes, cover plates, etc</u>			
13	100 x 50 x 50mm Deep box	No	34.56	Rate only
14	100 x 100 x 50mm Deep box	No	43.20	Rate only
	<u>Conductors, etc</u>			
	<u>PVC insulated stranded copper conductors drawn into wireways</u>			
15	2.5mm ²	m	7.78	Rate only
16	4mm ²	m	10.37	Rate only
	<u>Bare copper earth conductors drawn into wireways</u>			
17	2.5mm ²	m	6.91	Rate only
18	4mm ²	m	9.50	Rate only
	<u>Draw wires</u>			
	<u>Galvanised steel draw wires drawn into wireways</u>			
19	1,6mm Diameter	m	5.18	Rate only
	<u>Socket outlets and light switches</u>			
	<u>Switched socket outlets, isolator outlets, etc complete with cover plates fixed to galvanised draw boxes (draw boxes elsewhere)</u>			
20	16A Flush mounted three pin double switched socket outlet	No	172.80	Rate only
21	20A Double pole bell isolator complete with weatherproof outlet box	No	285.12	Rate only
22	30A Surface mounted double pole geyser isolator	No	285.12	Rate only
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23	30A Flush mounted double pole extraction canopy fan isolator	No	285.12	Rate only
24	30A Flush mounted double pole hand dryer isolator	No	285.12	Rate only
25	40A Flush mounted double pole air-conditioner isolator	No	328.32	Rate only
	<u>Light switches, etc complete with cover plate fixed in galvanised draw boxes (draw boxes elsewhere)</u>			
26	16A Flush mounted one lever one-way switch unit	No	82.08	Rate only
27	16A Flush mounted one lever two-way switch unit	No	155.52	Rate only
28	16A Flush mounted bell push button	No	155.52	Rate only
29	16A Photo cell mounted on external wall	No	449.28	Rate only
30	200mm Diameter 250V bell mounted on external wall	No	3 888.00	Rate only
	<u>Power skirtings</u>			
	<u>Note:</u>			
	The rates for power skirtings shall include for splices, joining, drilling, etc			
	<u>"Cabstrut N8/P803" epoxy powder coated galvanised steel power skirtings complete with covers, surface mounted to brickwork or concrete</u>			
31	Three compartment power skirtings	m	466.56	Rate only
	<u>Extra over for accessories to power skirtings</u>			
32	Internal elbow	No	103.68	Rate only
33	End cap	No	43.20	Rate only
34	Blank joggled cover where power skirting pass through walls	No	190.08	Rate only
	Carried to Collection			
				R
				Rate only
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Switched socket outlets, etc complete with cover plates as required, fixed in power skirtings

35	16A Flush mounted three pin single dedicated switched socket outlet	No	155.52	Rate only
36	16A Flush mounted type RJ45 data outlet	No	276.48	Rate only
37	Flush mounted telephone outlet	No	77.76	Rate only

Luminaries, etc

Luminaries or equipment complete with lamps, control gear, connections, etc mounted in position

38	Type A1, open channel ceiling mounted fluorescent light fitting, 1200mm long fitted with 2 x 36W T8 lamps and electronic ballast	No	578.88	Rate only
39	Type A2, open channel ceiling mounted fluorescent light fitting, 1200mm long fitted with 3 x 36W T8 lamps and electronic ballast	No	1 166.40	Rate only
40	Type AV, open channel ceiling mounted fluorescent light fitting, 1200mm long fitted with 2 x 36W T8 lamps and vapour proofed electronic ballast	No	950.40	Rate only
41	Type CF, ceiling mounted bulkhead light fitting with diecast aluminium body, high impact frosted polycarbonate diffuser and fitted with 1 x PL18W compact fluorescent lamps	No	691.20	Rate only
42	Type A, wall mounted waterproof (IP65) bulkhead light fitting with diecast aluminium body, high impact frosted polycarbonate diffuser and fitted with 2 x PL18W compact fluorescent lamps	No	820.80	Rate only
43	Type E, 430 x 250mm emergency exit type wall mounted light fitting with 1 x PL9 lamp	No	1 296.00	Rate only

Hand dryers

Carried to Collection

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Rate only

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	<u>"Steiner Air Towel 360 Sateen" hand dryers plugged to walls</u>			
44	270 x 200 x 240mm High hand dryer	No	3 888.00	Rate only
	<u>EARTHING AND LIGHTNING PROTECTION</u>			
	<u>Supply and install earthing and lightning protection for the following buildings as specified including testing, reports, etc</u>			
45	Guard house	No	5 184.00	Rate only
46	Four classrooms	No	6 048.00	Rate only
47	Nutrition centre	No	6 480.00	Rate only
48	Medium admin block	No	8 640.00	Rate only
	<u>TESTS, ETC</u>			
	<u>Labelling and marking</u>			
49	Allow for labelling on the cover plates of all outlet points, distribution boards, etc		Item	Rate only
	<u>Testing and commissioning</u>			
50	Testing and commissioning the electrical installation		Item	Rate only
	<u>Manuals, drawings, etc</u>			
51	Provision of as-built drawings, manuals, operative training, etc		Item	Rate only
	<u>Certificates of Compliance</u>			
52	Allow for the issue of all Certificates of Compliance as directed by the Principal Agent		Item	Rate only
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ELECTRICAL INSTALLATION

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