

<u>Pay Ref</u>	<u>Item No</u>		<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
		<u>BILL NO. 1</u>				
		<u>PRELIMINARIES AND GENERAL</u>				
		<u>NOTES</u>				
		i) The agreement is to be the General Conditions of Contract for Works of Civil Engineering Construction (2010) (Second Edition), published by the S. A. Institution Of Civil Engineering.				
		ii) The Preliminaries are to be the Construction and management requirements for works contracts - Part 1: General engineering and construction works (SANS 1921-1: 2004 Edition 1) prepared by Standards South Africa and shall be deemed to be incorporated herein.				
		iii) Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof (hereinafter referred to by heading and clause number only) for which such allowance must be made as may be considered necessary.				
		iv) Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading.				
		v) Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable").				
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- vi) Adjustment of the preliminaries: each item priced, is to be allocated to one or more of the three categories, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value and "T" denotes an amount in proportion to time.
- vii) Time (T) related Preliminaries will only be adjusted for omissions or additions, issued by the Employer, or delays caused by the Employer, for which variation and extension of time has been granted.

PREAMBLES FOR TRADES

The Model Preambles for Trades (latest edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these **bills of quantities** and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained

Supplementary preambles are incorporated in these **bills of quantities** to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles

The **contractor's** prices for all items throughout these **bills of quantities** must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles

SECTION A: GENERAL CONDITIONS OF CONTRACT

General (A1)

1 Definitions

F:..... V:..... T:.....

Item

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Clause 1.1

Clause 1.2

2 Interpretations

F:..... V:..... T:.....

Item

Clause 1.3

3 General Provisions

F:..... V:..... T:.....

Item

Basis of Contract (A2)

Clause 2.1

4 Available data and information

F:..... V:..... T:.....

Item

Clause 2.2

5 Adverse physical conditions

F:..... V:..... T:.....

Item

Clause 2.3

6 Technical Data

F:..... V:..... T:.....

Item

Clause 2.4

7 Abiguity or discrepancy

F:..... V:..... T:.....

Item

Clause 2.5

8 Assignment

F:..... V:..... T:.....

Item

Engineer (A3)

Clause 3.1

9 Functions of the Engineer

F:..... V:..... T:.....

Item

Clause 3.2

10 Engineer's Representative

F:..... V:..... T:.....

Item

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Contractor's General Obligations (A4)

Clause 4.1

11 Extent of obligations and liability

F:..... V:..... T:.....

Item

Clause 4.2

12 Engineer's Instructions

F:..... V:..... T:.....

Item

Clause 4.3

13 Legal Provisions

F:..... V:..... T:.....

Item

Clause 4.4

14 Subcontracting

F:..... V:..... T:.....

Item

Clause 4.5

15 Notices and fees

F:..... V:..... T:.....

Item

Clause 4.6

16 Patent rights

F:..... V:..... T:.....

Item

Clause 4.7

17 Fossils

F:..... V:..... T:.....

Item

Clause 4.8

18 Facilities for others

F:..... V:..... T:.....

Item

Clause 4.9

19 Construction Equipment

F:..... V:..... T:.....

Item

Clause 4.10

20 Contractor's employees

F:..... V:..... T:.....

Item

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<u>Clause 4.11</u>	21	Competent employees F:..... V:..... T:.....	Item	
<u>Clause 4.12</u>	22	Contractor's superintendence F:..... V:..... T:..... <u>Time and Related Matters (A5)</u>	Item	
<u>Clause 5.1</u>	23	Time calculations F:..... V:..... T:.....	Item	
<u>Clause 5.2</u>	24	Commencement of the contract F:..... V:..... T:.....	Item	
<u>Clause 5.3</u>	25	Commencement of the work F:..... V:..... T:.....	Item	
<u>Clause 5.4</u>	26	Access to the site F:..... V:..... T:.....	Item	
<u>Clause 5.5</u>	27	Time for practical completion F:..... V:..... T:.....	Item	
<u>Clause 5.6</u>	28	Programme F:..... V:..... T:.....	Item	
<u>Clause 5.7</u>	29	Progress of the works F:..... V:..... T:.....	Item	
<u>Clause 5.8</u>	30	Non-working times F:..... V:..... T:.....	Item	
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<u>Clause 5.9</u>	31	Instructions			
		F:..... V:..... T:.....		Item	
<u>Clause 5.10</u>	32	Delays attributable to the employer			
		F:..... V:..... T:.....		Item	
<u>Clause 5.11</u>	33	Suspension of the works			
		F:..... V:..... T:.....		Item	
<u>Clause 5.12</u>	34	Extension of time for practical completion			
		F:..... V:..... T:.....		Item	
<u>Clause 5.13</u>	35	Penalty for delay			
		F:..... V:..... T:.....		Item	
<u>Clause 5.14</u>	36	Completion			
		F:..... V:..... T:.....		Item	
<u>Clause 5.15</u>	37	Clearance of site			
		F:..... V:..... T:.....		Item	
<u>Clause 5.16</u>	38	Approval			
		F:..... V:..... T:.....		Item	
		<u>Payment and Related Matters (A6)</u>			
<u>Clause 6.1</u>	39	Payment to the contractor			
		F:..... V:..... T:.....		Item	
<u>Clause 6.2</u>	40	Security			
		F:..... V:..... T:.....		Item	
<u>Clause 6.3</u>	41	Variations			
		F:..... V:..... T:.....		Item	
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<u>Clause 6.4</u>	42	Value of variations F:..... V:..... T:.....	Item	
<u>Clause 6.5</u>	43	Dayworks F:..... V:..... T:.....	Item	
<u>Clause 6.7</u>	44	Measurement of works F:..... V:..... T:.....	Item	
<u>Clause 6.8</u>	45	Adjustment in rates and/or prices F:..... V:..... T:.....	Item	
<u>Clause 6.9</u>	46	Vesting of plant and materials F:..... V:..... T:.....	Item	
<u>Clause 6.10</u>	47	Payments F:..... V:..... T:.....	Item	
<u>Clause 6.11</u>	48	Variations exceeding 15 per cent F:..... V:..... T:.....	Item	
		<u>Quality and Related Matters (A7)</u>		
<u>Clause 7.1</u>	49	Quality of Construction Equipment F:..... V:..... T:.....	Item	
<u>Clause 7.2</u>	50	Quality of Plant, workmanship and materials F:..... V:..... T:.....	Item	
<u>Clause 7.3</u>	51	Access to the works F:..... V:..... T:.....	Item	
<u>Clause 7.4</u>	52	Samples and Testing F:..... V:..... T:.....	Item	
<u>Clause 7.5</u>	53	Examination of the works F:..... V:..... T:.....	Item	
<u>Clause 7.6</u>	54	Defective plant, materials and work F:..... V:..... T:.....	Item	
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<u>Clause 7.7</u>	55	Search for defects F:..... V:..... T:.....	Item	
<u>Clause 7.8</u>	56	Defects F:..... V:..... T:.....	Item	
<u>Clause 7.9</u>	57	Urgent remedial work F:..... V:..... T:.....	Item	
		<u>Risk and Related Matters (A8)</u>		
<u>Clause 8.1</u>	58	Protection of the works F:..... V:..... T:.....	Item	
<u>Clause 8.2</u>	59	Care of the works F:..... V:..... T:.....	Item	
<u>Clause 8.3</u>	60	Excepted risks F:..... V:..... T:.....	Item	
<u>Clause 8.4</u>	61	Indemnifications F:..... V:..... T:.....	Item	
<u>Clause 8.5</u>	62	Reporting accidents F:..... V:..... T:.....	Item	
<u>Clause 8.6</u>	63	Insuarances F:..... V:..... T:.....	Item	
		<u>Termination of the Contract (A9)</u>		
<u>Clause 9.1</u>	64	Termination of the contract F:..... V:..... T:.....	Item	
<u>Clause 9.2</u>	65	Termination by employer F:..... V:..... T:.....	Item	
<u>Clause 9.3</u>	66	Termination by Contractor F:..... V:..... T:.....	Item	
		<u>Carried to Collection</u>		
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Claims and Disputes (A10)

Clause 10.1

67 Contractor's claim

F:..... V:..... T:.....

Item

Clause 10.2

68 Dissatisfaction claim

F:..... V:..... T:.....

Item

Clause 10.3

69 Dispute notice

F:..... V:..... T:.....

Item

Clause 10.4

70 Amicable settlement

F:..... V:..... T:.....

Item

Clause 10.5

71 Adjudication

F:..... V:..... T:.....

Item

Clause 10.6

72 Disagreement with Ajudication Board's decision

F:..... V:..... T:.....

Item

Clause 10.7

73 Arbitration

F:..... V:..... T:.....

Item

Clause 10.8

74 Court proceedings

F:..... V:..... T:.....

Item

Clause 10.9

75 Appointment

F:..... V:..... T:.....

Item

Clause 10.10

76 Common provisions

F:..... V:..... T:.....

Item

Clause 10.11

77 Continuing validity

F:..... V:..... T:.....

Item

SECTION E: SPECIFIC PRELIMINARIES

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<u>SANS 1200</u>		<u>Facilities required by Engineer</u>			
<u>PSAB1</u>	78	Contract Sign board			
		F:..... V:..... T:.....	Item		
<u>PSAB3</u>	79	Cellular phone			
		F:..... V:..... T:.....	Item		
<u>PSA2</u>	80	Additional tests required by engineer	Item	10 000	00
<u>SANS 1200</u>	81	Overhead and profits	%		
<u>PSA3</u>	82	Community Liason Officer			
		F:..... V:..... T:.....	Item	10 000	00
<u>SANS 1200</u>	83	Overhead and profits	%		
<u>PSA8</u>	84	Re-instatement of boundary pegs			
		F:..... V:..... T:.....	Item	2 000	00
<u>SANS 1200</u>	85	Overhead and profits	%		
<u>PSA8</u>	86	Re-instatement of boundary pegs			
		F:..... V:..... T:.....	Item	2 000	00
<u>SANS 1200</u>	87	Overhead and profits	%		

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<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p><u>BILL NO 1</u></p> <p><u>ALTERATIONS</u></p> <p>For preambles see "Model Preambles for Trades"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>View site</u></p> <p>Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used in demolitions</p> <p><u>General</u></p> <p>The contractor shall carry out the whole of the work with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He 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</p> <p>The contractor will be required to take all dimensions affecting the existing building on the site and he will be held solely responsible for the accuracy of all such dimensions</p> <p>Where existing screeds are described to be prepared for new floor finishes, the screeds are to be scraped clean of loose materials and glue and vacuumed, cleaned and treated with one coat "Pavelite Bond" and levelled with two coats "Pavelite" screed levelling compound all in accordance with "Floorworx" technical bulletin for floor coverings No 15</p> <p>Any water supply pipes and other piping that may be met with 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</p> <p style="text-align: right;"><u>Carried to Collection</u></p> <p><u>BILL NO 1</u> <u>ALTERATIONS</u></p>			
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Prices

Prices for doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be deemed to include for thorough overhauling before refixing, including taking off, easing and rehangng, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery if necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match the timber

Prices for doors, windows, etc with frames where described as to be taken out shall be deemed to include for the removal of all beads, architraves, ironmongery, etc. Doors with frames which are to be re-fixed are to be provided with new architraves (architraves measured elsewhere)

Prices to take out and remove doors and frames shall be deemed to include for removing door stops, cabin hooks, etc and making good of holes

Prices for building up of openings in existing walls shall be deemed to include for levelling and preparing of cement screeds, pavings, granolithic, etc, for raising of masonry

Prices for making good of finishes shall be deemed to include making good of the masonry and concrete surfaces onto which the new finishes are applied

HANDING OVER OF MATERIALS

Where certain materials or articles from demolitions are described as to be handed over by the Contractor to the Regional Representative or Representative/Agent, the Contractor shall obtain an official receipt listing the materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested to do so, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Employer for the full replacement value thereof which amount will be deducted from any monies due to the Contractor

EXISTING FURNITURE, EQUIPMENT, ETC

The Contractor shall not remove or damage any furniture, equipment or similar items that belong to the Employer except when specifically described in the items to follow:

The Contractor must give the Representative/Agent sufficient notice if the removal of these items are required before any prescribed alterations can be done

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Work and material

The work to be done and materials to be used in the alterations are to be similar to those specified in the new work in so far as they apply

Abbreviations

For the purpose of this bill certain abbreviations have been made use of, the full meanings of which are as follows:

"Breaking down and removing" walls, etc implies that the wall is to be taken down to the extent shown on the drawings or as may be described and that all necessary shoring is to be provided and allowed for to ensure the safety of the building during the pulling down or until new walls are erected and all portions of the remaining walls where disturbed or affected by the removal are to be made good and left ready for the plaster or other finishings

"Taking out and removing doors, windows, etc" implies that the door, etc is to be carefully taken down together with the frame, linings, architraves, window sills, etc complete and where brick lintels occur, it must be supported and propped until the openings are built up or new doors or windows built in position

"Setting aside for re-use" implies that special care is to be exercised in the taking down of any particular article that may require to be refixed and so avoid unnecessary repairs and making good and such articles are to be carefully stored in a dry place and kept free from damage

"Forming openings" for doors or windows, etc implies that the plaster or any other covering is to be hacked off and an opening formed sufficient in size to receive the building in of the frame and cramps, and the forming of new dampproof courses, lintels, sills, etc. After building in of the new frame, the opening is to be built against the frame, plaster or faced brickwork to be made good both sides and reveals and floor screeds prepared for finishings to match existing

"Refixing" implies that the articles or fittings referred to are to be refixed in the new position together with all the necessary finishings such as linings, architraves, skirtings, locks and furniture, etc complete and in every respect similar to such articles before removal, and allowance is to be made for any necessary adjustments or alterations for the proper adaption of same to the new position

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"Making good" implies that all necessary repairs are to be made to reinstate articles that may be damaged through the removal or otherwise, and the supplying of any new materials to match existing work, and is to include any necessary repairs to adjacent finishings such as floors, skirtings, plaster, painting, etc and such making good is to match adjoining work in all respects and in all trades

"Building up opening" implies that after the removal of any doors, windows or screens that may be described to be taken down, the opening is to be filled up solid (or to the thickness as shown) with new brickwork and is to include all necessary cutting away to form toothings to thoroughly bond to the new work and new finishes to both sides as described. Paint described in such items implies one coat alkali resistant primer and one undercoat to plastered surfaces. Final coats are elsewhere allowed for

PRICES

Prices are to include for carting away from site all materials not specifically mentioned as being stored on site for re-use or handed over to the Director and all rubbish, debris, etc arising from the alterations, etc and for making good all work damaged or disturbed to the approval of the Director

Dimensions

All dimensions and sizes referred to in this bill are approximate

REMOVAL OF EXISTING WORK

- | | | |
|---|--|------|
| 1 | Allow for watering the works by spraying to prevent any nuisance from dust, etc and supply, erect and remove at completion all temporary dust screens, etc required | Item |
| 2 | Allow for protecting all existing work liable to suffer damage (ie. walls, finishes, floors, windows, etc) from damage during the building operations, alterations, etc and make good all work damaged with new material to match existing to the approval of the Director | Item |
| 3 | Allow for the assistance for moving the necessary furniture and materials to provide access to the work. Any furniture remaining in the rooms shall be properly protected and the contractor shall be responsible for any damages caused to such items | Item |

REMOVAL OF EXISTING WORK

Breaking up and removing mass concrete

- | | | | |
|---|-------|----|---|
| 4 | Steps | m3 | 1 |
|---|-------|----|---|

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5	150mm Thick surface beds	m2	15
	<u>Breaking up and removing mass concrete</u>		
6	230mm Brick walls	m2	2
7	Brick on edge coping to walls and prepare wall to receive new coping (new coping elsewhere measured)	m	65
	<u>Taking out and removing doors, windows, etc, including thresholds, sills, etc and building up openings in brick walls, including making good cement plaster on both sides (making good paintwork elsewhere)</u>		
8	Timber single door and frame not exceeding 2.5m ² overall from 230mm brick wall	No	2
9	Timber double door and frame exceeding 2.5m ² and not exceeding 5m ² overall from 230mm brick wall	No	4
10	Glazed timber window not exceeding 2.5m ² overall from 230mm brick wall	No	1
11	Glazed timber window exceeding 2.5m ² and not exceeding 5m ² overall from 230mm brick wall	No	3
12	Glazed timber louvre not exceeding 2.5m ² overall from 230mm brick wall	No	2
	<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>		
13	Tongued and grooved timber suspended floors, including skirtings, timber joists, bearers, etc	m2	209
14	Gypsum plasterboard ceilings, including cornices, timber brandering, etc	m2	242
15	Sloping gypsum plasterboard ceilings, including cornices, timber brandering, etc	m2	373
16	Acoustic wall tiles from walls and prepare plaster to received paint (paint elsewhere)	m2	98
17	Cut out and remove rotten timber sprockets, including cutting back into brickwork to allow for jointing with new (new elsewhere measured).	m	15
18	Fibre cement or wooden fascias and barge boards.	m	115

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	<u>Temporarily take down and set aside for re-use roofs, floors, panelling, ceilings, partitions, etc</u>		
19	Coronation Marseilles roof tiles	m2	763
20	Hip and ridge to Marseilles roof tiles	m	72
	<u>Taking out and removing roof, etc</u>		
21	Allow for covering and maintaining existing structure in a perfectly watertight condition during alterations by means of heavy tarpaulins, properly secured and maintained in position to the approval of the Representative / Agent and make good all work damaged or disturbed after completion (total area of alterations to roof coverings 763m ²)		Item
	<u>Taking out and remove sundry joinery work, fittings, etc</u>		
22	Timber skirtings from wall and prepare to receive new (new elsewhere)	m	192
23	Timber dado rail from wall and prepare to receive new (new elsewhere)	m	154
	<u>Taking out and removing ironmongery</u>		
24	Mortice lockset from timber door	No	20
25	Toilet paper holder	No	4
	<u>Servicing of ironmongery</u>		
26	Service existing mortice lock , oil and ease furniture and lock , replace missing keys , and refix with matching screws incl. ressetting striking plate .	No	4
	<u>Taking out/off and removing sundry metalwork</u>		
27	Semi circular steel wire mesh screen with framing 1.00 at base x 1.80m high overall bolted to brickwork, including making good plaster to receive painting (paint elsewhere)	No	16
	<u>Hack up/off and remove granolithic, screeds or plaster from concrete or masonry and prepare surfaces for new screeds or plaster</u>		
28	Internal plaster from walls and columns	m2	20
29	External plaster from walls, columns and beams	m2	15

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	<u>Hack up/off and remove ceramic tiles, including removing mortar bed or backing from concrete or masonry and preparing surfaces for new screeds or plaster</u>		
30	Tiles to walls	m2	78
	<u>Taking out and removing piping, including blanking off as necessary and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>		
31	Piping not exceeding 50mm diameter	m	37
32	Piping exceeding 50mm and not exceeding 100mm diameter	m	12
	<u>Taking out and removing piping, gutters, etc, including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>		
33	Asbestos cement eaves gutter and brackets	m	115
34	Asbestos cement rainwater pipe and holderbats	m	34
	<u>Taking out and remove sanitary fittings, including cutting off, disconnecting and blanking off short lengths of piping and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>		
35	Vitreous china wash hand basin	No	2
36	Vitreous china water closet pan with cistern	No	2
37	Vitreous china wall hung urinal with cistern at high level	No	2
	<u>Taking out and removing glass and mirrors</u>		
38	Glass from timber windows with beads, including cleaning out rebates and preparing for new glass	m2	31
39	Rake out glazing putty, prepare rebates and re-putty	m	60
	<u>OPENINGS THROUGH EXISTING WALLS, ETC</u>		
	<u>Break out and form openings through walls for new doors and frames, including prestressed concrete lintels, make good plaster on both sides and into reveals and with 20MPa concrete thresholds with steel trowelled finish (new doors and frames and make good paintwork elsewhere)</u>		
40	Opening for door with timber frame 0.93 x 2.09m high overall through 230mm brick wall	No	1
	<u>PREPARATORY WORK TO EXISTING SURFACES</u>		

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Clean existing roof covering using a high pressure water cleaning system and steel brushes removing all loose paint, spawl and deleterious matter

41	Coronation Marseilles roof tiles	m2	763
42	Underside of Coronation Marseilles roof tiles	m2	110

MAKING GOOD FINISHES, ETC

Preparation to existing vertical surfaces

43	Clean existing walls using a water pressure cleaning system and steel brushes and remove all dirt and loose particles.	m2	350
44	Clean existing facebrick walls using a water pressure cleaning system and steel brushes and remove all dirt and loose particles.	m2	677
45	Carefully cut out and remove damaged face bricks from face brick wall, rake out mortar and build in new face bricks to match the existing with colour matched tinted mortar.	m2	15
46	Extra over brickwork for face brickwork in patches.	m2	15
47	Chase out plaster cracks to form recess 25mm wide and 20mm deep, and fill with 1:4 cement mortar, including floating up smooth to match existing.	m	35

Preparation to existing horizontal surfaces.

48	Sand down existing timber strips or parquet flooring and prepare and seal with approved timber sealer.	m2	313
49	25mm Thick on floors in patches	m2	29
50	Clean existing quarry coping 600mm girth using a water pressure cleaning system and steel brushes removing all loose paint, spawl and deleterious matter	m	46

Sundries

51	Seal with approved silicone sealant at junction of wall and cornice.	m	385
52	Bed roof sheets in cement mortar on brickwork.	m	115
53	Cut recess in plastered brick walls for wedging and pinning metal flashing(elsewhere)	m	105
54	Cut stepped recess in plastered brick walls for wedging and pinning stepped metal apron flashing (elsewhere).	m	73

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<u>BILL NO 2</u>			
<u>EARTHWORKS</u>			
For preambles see "Model Preambles for Trades"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Nature of ground</u>			
The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "soft rock" or "hard rock"			
<u>Material of a more difficult character</u>			
Should the contractor consider that any of the excavations are more difficult in character than excavations in "earth" he shall immediately notify the principal agent in writing. Failing such notification the excavations shall be deemed to be in "earth" and shall be measured and valued accordingly			
The contractor may use any method he chooses to excavate any class of material, but his chosen method of excavation shall not determine the classification of the material excavated			
<u>Subterranean water</u>			
No subterranean water is expected			
<u>Working space</u>			
Working space for formwork to sides of bases, ground beams, etc is measured with the assumption that it will be required by the principal agent in certain cases. If it is not required, it will be adjusted as such in the final account			
Working space for formwork to sides of all concrete, except columns, has been measured only where the concrete face is less than 600mm from the face of the measured excavation			
Working space for formwork to sides of columns has been measured for the width of the column face only where both: <ul style="list-style-type: none"> - the top of the column base is more than 1.5m below the commencing level of the excavations and - the column face is less than 600mm from the face of the measured excavations 			
<u>Carried to Collection</u>			
<u>BILL NO 2</u> <u>EARTHWORKS</u>			
		R	

No claim will be considered for any working space for formwork to concrete other than as above described or for working space beyond the sides of trench excavations for the building of brick or block walls

Excavation for working space in rock

Notwithstanding clause 11 on page 7 of the Standard System of Measuring Building Work, excavation for working space in rock will be measured in cubic metres to the extent executed and given as "extra over" bulk excavation or trench and hole excavation as the case may be

Disposal of excavated material

All excavations shall be deemed to include disposal of excavated material by setting aside for use as filling or depositing on site within 100m of the perimeter of the building and spreading and leveling

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

Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material

DEMOLITIONS, ETC

Demolish and remove

1	Single storey building with pitched roof, approximately 2.58 x 2.82m on plan and 3.00m high at eaves, comprising concrete surface bed, foundation walls, brick walls and sheet metal roof covering on timber trusses	No	1
2	Single storey building with pitched roof, 3.08 x 3.89m on plan and 3.00m high at eaves, comprising of a wc and connecting pipe works, concrete surface bed, brick walls and sheet metal roof covering on timber trusses	No	1
3	Single storey building with pitched roof, 2.94 x 6.48m on plan and 3.00m high at eaves, comprising concrete surface bed, brick walls and sheet metal roof covering on timber trusses	No	1

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EARTHWORKS

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SITE CLEARANCE, ETC

Site clearance

4	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	26
5	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	26
6	Remove waste and refuse material and stockpile to filling in landfill site	m3	992

EXCAVATIONS

Excavations in earth not exceeding 2m deep

7	Trenches	m3	34
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EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER (PROVISIONAL)

Extra over trench and hole excavations in earth for excavations in

8	Soft rock	m3	3
9	Hard rock	m3	2

SUNDRIES

Extra over all excavations for carting away

10	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	3
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Risk of collapse of excavations

11	Sides of trench and hole excavations not exceeding 1.5m deep	m2	98
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Keeping excavations free of water

12	Keeping excavations free of all water other than subterranean water		Item
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Dewatering

13	Allow for a dewatering system for removal of water and water from other subterranean sources in the basement		Item
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BILL NO 2
EARTHWORKS

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FILLING, ETC

Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted in not exceeding 200mm layers to 95% modified AASHTO density

14	Under floors, steps, pavings, etc	m3	39
15	Backfilling to trenches, holes, etc	m3	15

Earth filling supplied by the contractor, compacted in not exceeding 200mm layers to 95% modified AASHTO density

16	Under floors, steps, pavings, etc	m3	33
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Compaction of surfaces

17	Compaction of ground surface under floors, etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% modified AASHTO density	m2	132
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Prescribed density tests on filling

18	Modified AASHTO density test	No	3
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GRASSING, ETC

Grassing of rolls approximately 50mm thick

19	"Kikuyu" grass over site	m2	119
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Fertilizing

20	Fertilizing garden soil with 2:3:2 mixture spread at a rate of 1kg/10m2, including working evenly into top 150mm depth of soil	m2	119
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Maintenance

21	Maintenance of grassed areas for a period of 6 months (total area approximately 3000m2), including regularly weeding and irrigating as necessary		Item
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WEED KILLERS, INSECTICIDES, ETC

"Hyvar X" weedkiller mixed with water and applied at a rate of 100grams/m2

22	Under paving etc	m2	684
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EARTHWORKS

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Insecticides

23	Under floors, etc, including forming and poisoning V-grooves along foundation walls, etc, filling in and ramming	m2	132
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EARTHWORKS

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EARTHWORKS

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BILL NO 2
EARTHWORKS

<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p><u>BILL NO 3</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p>For preambles see "Model Preambles for Trades"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Breeze concrete</u></p> <p>Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1). The ash graded up to particles which will pass a 16.5mm ring from a minimum which fails to pass a 4.75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated</p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SANS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)</p> <p><u>Formwork</u></p> <p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself</p> <p>Formwork to soffits of solid slabs shall be deemed to be for slabs not exceeding 250mm thick unless otherwise described</p> <p>Rates for all formwork shall be deemed to include propping</p> <p style="text-align: right;"><u>Carried to Collection</u></p> <p><u>BILL NO 3</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p>		R	

Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed 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"

CONCRETE CAST AGAINST EXCAVATED SURFACES

20MPa/19mm concrete

1	Surface beds cast in panels on waterproofing	m3	15
2	Ramps	m3	1
3	Steps	m3	1

TEST CUBES

4	Making and testing 150 x 150 x 150mm concrete strength test cubes	No	1
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CONCRETE SUNDRIES

Wood float surface treatment to finished face of concrete

5	Surface beds, slabs, etc	m2	44
6	Pavings to falls	m2	100

SMOOTH FORMWORK

Smooth formwork to sides

7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	126
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REINFORCEMENT

Mild steel reinforcement to structural concrete work

8	Various diameter bars	t	0.40
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High tensile steel reinforcement to structural concrete work

9	Various diameter bars	t	0.60
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Fabric reinforcement

10	Type 193 in concrete surface beds, slabs, etc	m2	144
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BILL NO 3
CONCRETE, FORMWORK AND REINFORCEMENT

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BILL NO 3

CONCRETE, FORMWORK AND REINFORCEMENT

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BILL NO 3

CONCRETE, FORMWORK AND REINFORCEMENT

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<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p><u>BILL NO 5</u></p> <p><u>MASONRY</u></p> <p>For preambles see "Model Preambles for Trades"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>BRICKWORK</u></p> <p><u>Linings to concrete</u></p> <p>Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wall ties</p> <p><u>Hollow walls</u></p> <p>Descriptions of hollow walls shall be deemed to include wire ties and leaving every fifth perpend of the bottom course and above lintels of the external skin open as a weep hole</p> <p><u>Lintels</u></p> <p>Lintels shall bear at least 250mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings the lintel shall be continuous</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p><u>Bagged brick finish</u></p> <p>Bagged brickwork shall be of the mortar as described rubbed onto wall with hessian cloth to provide a fair finish. The finished surface shall be free of penetrations or pitted openings or large protruding lumps of mortar. The finish shall be to the principal agent's approval</p>			
<p><u>BILL NO 5</u></p> <p><u>MASONRY</u></p>		R	
<p><u>Carried to Collection</u></p>			

SAMPLES

Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site

PAVINGS

Pavings on concrete surfaces

Concrete surfaces shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. Surfaces shall then be wetted and kept damp for at least six hours before slushing with 1:2 cement and sand mixture and while still wet, pavings, etc. shall be laid on class I mortar beds not exceeding 30mm thick and jointed and pointed with recessed joints

Joints

Pavings, etc, shall, except for crazy paving, be laid with continuous joints in both directions

Cutting

Descriptions of all pavings shall be deemed to include for all straight cutting and circular cutting around pipes, etc not exceeding 150mm diameter

BRICKWORK

FOUNDATIONS

Brickwork of extra hard burnt clay bricks in class I mortar

1	110mm Walls	m2	6
2	230mm Walls	m2	28

SUPERSTRUCTURE

Brickwork of common clay bricks

3	110mm Walls	m2	47
4	230mm Walls	m2	57

Carried to Collection

BILL NO 5
MASONRY

R

BRICKWORK SUNDRIESBagging of 1:3 cement and sand mixture

5 On walls m2 57

Brickwork reinforcement

6 75mm Wide reinforcement built in horizontally m 114

7 150mm Wide reinforcement built in horizontally m 204

Prestressed concrete fabricated lintels

8 110 x 70mm Lintels in lengths not exceeding 3m m 10

Galvanised wire ties

9 4mm Diameter roof tie 2m girth bent double with one end built into brickwork and other end fixed to timber No 361

Galvanised hoop iron cramps, ties, etc

10 30 x 1.6mm Cramp 500mm long with one end fixed to wood and other end built into masonry No 12

Air bricks, etc

11 229 x 152mm "Terra - Cotta vermin proof air brick No 4

FACE BRICKWORK"Corobrik Firelight Satin" face bricks pointed with recessed horizontal and vertical joints

12 Extra over brickwork for face brickwork m2 57

13 Extra over brickwork for brick-on-edge header course lintels one course high m 8

14 Extra over brickwork for roller course sills set at 30 degrees sloping and slightly projecting m 4

Brick-on-edge header course copings, sills, etc of "Corobrik Firelight Satin" face bricks pointed with recessed joints on all exposed faces

15 230mm Copings on top of 230mm walls m 67

16 230mm Copings on raking top of 230mm walls m 9

Carried to Collection

BILL NO 5
MASONRY

R

WINDOW SILLS

"Nutec" natural grey sills in single lengths bedded in class I mortar, including metal fixing lugs, etc

17	150 x 15mm Wide sills set flat and slightly projecting	m	4
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BILL NO 5
MASONRY

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BILL NO 5

MASONRY

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BILL NO 5
MASONRY

<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	BILL NO 6			
	WATERPROOFING			
	For preambles see "Model Preambles for Trades"			
	SUPPLEMENTARY PREAMBLES			
	<u>Waterproofing</u>			
	Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets, etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs			
	DAMP-PROOFING OF WALLS AND FLOORS			
	<u>One layer of 375 micron "Gundle Brikgrip Blue" embossed damp proof course</u>			
1	In walls	m2	11	
	<u>One layer of 250 micron "Gundle USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
2	Under surface beds	m2	133	
3	Vertically between walls	m2	1	
	<u>Two coats "Brixéal" bitumen emulsion waterproof coating to</u>			
4	Bagged walls	m2	57	
	<u>Carried Forward to Summary of Section No.</u>			
	BILL NO 6			
	WATERPROOFING			
			R	

<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>BILL NO 7</u>			
	<u>ROOF COVERINGS ETC</u>			
	For preambles see "Model Preambles for Trades"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Straight cutting</u>			
	Descriptions of all roof coverings shall be deemed to include for all straight cutting			
	<u>TILES</u>			
	<u>Previoulsy set aside tiles laid in straight bond with minimum 100mm head laps and each tile nailed with non-corrosive nails to and including 38 x 38mm sawn softwood battens at maximum 320mm centres, on and including approved undertile membrane with 150mm sealed laps</u>			
1	Roof coverings with pitches not exceeding 25 degrees	m2	763	
	<u>332 x 420mm "Double Roman" through colour terracotta concrete tiles laid in straight bond with minimum 100mm head laps and each tile nailed with non-corrosive nails to and including 38 x 38mm sawn softwood battens at maximum 320mm centres, on and including an underlay of 400 micron 2-ply spunbound "Monier" undertile membrane with 150mm sealed laps</u>			
2	Roof coverings with pitches not exceeding 25 degrees	m2	47	
3	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour	m	41	
4	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour	m	50	
	<u>ROOF AND WALL INSULATION</u>			
	<u>"Sisalation 420" heavy industrial grade aluminium foil based insulation</u>			
5	Insulation laid taut over purlins (at approximately 1.80m centres) and fixed concurrent with roof covering, including taped laps and nylon straining wires	m2	47	
	<u>Carried to Collection</u>			
	<u>BILL NO 7</u>			
	<u>ROOF COVERINGS, ETC</u>			

R

SHEET METAL FLASHINGS, LININGS, COPINGS, ETC

0.6mm Galvanised sheet iron

6	Linings to valleys with riveted and soldered joints	m2	26
<u>0.6mm Galvanised sheet iron with "Chromadek" finish on one side</u>			
7	Back flashings	m2	1
8	Stepped cover flashings to roofs with pitches to 30 degrees	m2	63
9	Cover flashings 150mm girth	m	107

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BILL NO 7
ROOF COVERINGS, ETC

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BILL NO 7

ROOF COVERINGS, ETC

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BILL NO 7

ROOF COVERINGS, ETC

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	<u>Sawn softwood</u>		
2	25 x 304mm Valley boarding	m	64
3	38 x 114mm Sprockets	m	15
4	38 x 114mm Wall plates	m	149
	<u>EAVES, VERGES, ETC</u>		
	<u>"Nutec" medium density plain sheets</u>		
5	12 x 225mm Fascias and barge boards, including H-profile plastic jointing strips	m	148
	<u>FLOORS, ETC</u>		
	<u>Sawn softwood</u>		
6	Provide the sum of R700/m2 for the complete installation as per manufacturer's specification of timber floor all as per clause 7.1 of the ASAQS Preliminaries	m2	209
	<u>SKIRTINGS</u>		
	<u>Wrought meranti</u>		
7	19 x 69mm Skirtings, including 19mm quadrant beads, nailed	m	59
8	19 x 100mm Profiled skirtings including 19mm quadrant	m	192
	<u>DOORS, ETC</u>		
	<u>Take delivery, store, etc all as per clause 7.1 of the ASAQS Preliminaries and hang to timber or steel frames</u>		
9	Flush single door not exceeding 2.5m2	No	2
10	Flush double door exceeding 2.5m2 and not exceeding 5m2	No	4
	<u>Solid wrought meranti doors hung to steel frames etc</u>		
11	44mm x 0.81 x 2.03m high "Saligna Blaco" framed, ledged and braced batten door of 40 x 110mm styles and top rail, 20 x 150 mm middle ledge and 20 x 225mm bottom ledge and 20 x 110mm braces (D01)	No	1
	<u>Solid core hardwood panel doors with commercial veneer on both sides hung to steel frames</u>		
12	40mm Door 0.81 x 2.03m high (D02)	No	5
	<u>Carried to Collection</u>		
	<u>BILL NO 8</u>		
	<u>CARPENTRY AND JOINERY</u>		

R

Solid laminated external quality flush doors with commercial veneer on both sides hung to steel frames

13	40mm Door 0.81 x 2.03m high (D1)	No	2
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WINDOWS

All framed sliding sash and casement windows, shall only be of construction acceptable to the Representative / Agent, i.e. mortice and tennon where the tennon is exposed on the outside edges of styles and where the tennon is wedged to form a dovetailed shape.

A sample window shall be submitted for approval prior to placing the complete order

Wrot meranti windows

14	Provide a PC Sum of R3 000 for the supply only of timber frame installed in existing opening (glazing elsewhere measured)	No	5
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15	Provide a PC Sum of R2 000 for the supply only of timber louvre installed in existing opening	No	2
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FRAMED FRAMES, ETC

Wrought meranti

16	69 x 107mm Rebated frames, bolted	m	39
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Wrought meranti

17	19 x 69mm Twice grooved and angle rounded dado rails, plugged	m	154
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BILL NO 8
CARPENTRY AND JOINERY

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BILL NO 8

CARPENTRY AND JOINERY

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BILL NO 8

CARPENTRY AND JOINERY

<u>Item No</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	BILL NO 10				
	<u>FLOOR COVERINGS, WALL LININGS, ETC</u>				
	For preambles see "Model Preambles for Trades"				
	<u>FLOOR COVERINGS</u>				
	<u>2.5mm "Superflex" fully flexible vinyl sheeting laid on self leveling screed</u>				
1	Floors	m2	26		
	<u>POLISH, SEALERS, ETC</u>				
	<u>Three coats wax polish on</u>				
2	Vinyl floors	m2	26		
	<u>Carried Forward to Summary of Section No.</u>				
	<u>BILL NO 10</u>				
	<u>FLOOR COVERINGS, WALL LININGS, ETC</u>				
				R	

5	CZ682-24/2295-76SC two lever mortice lockset	No	8
6	CZ682-24/2295SC two lever mortice lockset with 2293SC rebate conversion set	No	2
7	CZ682-24/2277-78SC three lever mortice lockset	No	9
8	CZ682-24/2277-78SC three lever mortice lockset with 2993SC rebate conversion set	No	6
<u>HANDLES</u>			
<u>"DORMA" or other approved</u>			
9	TH125 Stainless steel lever handles on rose with bathroom/WC escutcheon	No	10
10	DPH301C 150 x 19mm stainless steel "D" shaped straight back to back pull handles	Pairs	1
<u>SIGNAGE</u>			
<u>"DCLSA"</u>			
11	160 x 160mm EO15160E/M/F anodised aluminium plate with male or female engraving	No	2
12	160 x 160mm EO15160E/P anodised aluminium plate with paraplegic engraving	No	1
<u>CURTAIN TRACKS</u>			
<u>"Yokota"</u>			
13	"Racer" double curtain tracks for face fixing with 103.5mm projection, including 14 rollers per metre, brackets, stopped ends, etc, plugged	m	61
14	Extra over for stopped end	No	72
<u>BATHROOM FITTINGS</u>			
<u>"Halcast"</u>			
15	165 CH towel ring, plugged	No	7
<u>"Domline"</u>			
16	130 x 50mm "Universal 107F" CH holder with clear acrylic soap dish, plugged	No	7

Carried to Collection

BILL NO 11
IRONMONGERY

R

"Chairman Industries"

17 32mm DL2 stainless steel side grab rail, plugged No 2

18 32mm SR2 stainless steel rear grab rail around cistern, plugged No 2

SUNDRIES

"DORMA" or other approved

19 DHC-SS-031-B Stainless steel hat and coat hook with rubber buffer No 7

Approved

20 38mm Diameter rubber door stop No 27

BILL NO 11
IRONMONGERY

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BILL NO 11

IRONMONGERY

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BILL NO 11
IRONMONGERY

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<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
BILL NO 12				
<u>METALWORK</u>				
For preambles see "Model Preambles for Trades"				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Descriptions</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 masonry or concrete				
Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described				
<u>GALVANISED STEEL BALUSTRADING</u>				
<u>Galvanized mild steel painted with one coat red oxide factory primer</u>				
1	50 x 50 x 2mm Square mild steel tubing as top and bottom rails	m	8	
2	50 x 50 x 2mm Square mild steel tubing as raking top and bottom rails	m	32	
3	20 x 20 x 5mm balusters welded to middle and bottom rails	m	180	
4	50 x 50 x 2mm Square mild steel tubing as vertical end and centre posts (1100mm long each)	No	18	
5	80 x 80 x 10mm Fixing plate four times holed for bolts and welded on	No	18	
6	12mm expansion bolt	No	72	
7	Extra over 50 x 50mm tubing for ramp or knee	No	4	
8	Extra over 50 x 50mm tubing for mitred L-intersection	No	2	
<u>Carried to Collection</u>				
<u>BILL NO 12</u>				
<u>METALWORK</u>				
				R

GALVANISED STEEL SCREENS AND GATES

Welded and bolted screens

9	Semi circular screen 1.00m at base x 1.00m high with 12mm diameter frame and covered with mesh covering	No	16
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Framed and welded galvanised mild steel security gates

10	Grille double gate each leaf constructed of 40 x 60 x 2mm hollow section frame and two 40 x 6mm flat section horizontal intermediate rails with five 19mm diameter vertical bars welded to framing approximately 110mm centres including holes through intermediate rails. Size 1.800 x 2.097m high	No	1
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11	Frame for double gate constructed of 45 x 45 x 3mm hollow section frame, each jamb four times bolted to brickwork with and including 8mm diameter expansion bolts x 70mm long including drilling holes through flanges of frame and welding head of bolt to frame. Size 1.80 x 2.10m high overall	No	1
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12	25mm diameter x 80mm long overall pin hinge with 15mm diameter x 30mm long pin, welded to grille gate and frame or pressed steel door frame	No	4
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13	Purpose made barrel bolt welded to gate including 12mm diameter x 30mm pin welded to frame (all as detail DS8 at back of these Bills of Quantities)	No	2
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14	Purpose made barrel bolt welded to gate including 12mm diameter x 197mm long pin welded to frame (all as detail DT33 at back of these Bills of Quantities) including keep in hollow section frame	No	1
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15	60 x 60 x 6mm thick barrel bolt locating plate with 13mm diameter hole in centre and bolted to concrete with and including two 8mm diameter expansion bolts, including drilling hole 15mm deep in concrete for barrel bolt (elsewhere)	No	1
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16	Set of two 55 x 40 x 8mm flat section locking plates, each once holed for padlock (elsewhere) and welded along one edge to hollow section framing or pressed steel frame	No	1
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Carried to Collection

BILL NO 12
METALWORK

R

GALVANISED PRESSED STEEL DOOR FRAMES

1.2mm Double rebated frames suitable for 110mm walls

17	Frame for door 0.81 x 2.03m high (D2)	No	5
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GALVANISED STEEL WINDOWS, DOORS, ETC

"Durowin" residential open out windows with burglar bars to opening sashes

18	Type NE1 window 0.53 x 0.65m high (WS)	No	5
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19	Type NC1 window 0.53 x 0.95m high (WT)	No	2
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BILL NO 12
METALWORK

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BILL NO 12

METALWORK

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BILL NO 12
METALWORK

<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>BILL NO 13</u>			
	<u>PLASTERING</u>			
	For preambles see "Model Preambles for Trades"			
	<u>PLASTER</u>			
	<u>Finish</u>			
	Internal plaster shall be finished with a steel trowel and external plaster with a wooden float			
	<u>SCREEDS</u>			
	<u>Screeds steel trowelled on concrete</u>			
1	30mm Thick on floors and landings	m2	26	
	<u>GRANOLITHIC</u>			
	<u>Untinted granolithic on concrete (degree of accuracy grade I)</u>			
2	30mm Thick on floors and landings to falls	m2	100	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster class II on masonry</u>			
3	Walls	m2	151	
4	Narrow widths	m2	11	
	<u>"MENTEX 82" METAL LATHINGS</u>			
5	15 x 40mm Mesh 3.34kg/m2 expanded metal lathing strips 600mm wide bent to shape and fixed along both edges to masonry or concrete	m	707	
	<u>Carried Forward to Summary of Section No.</u>			
	<u>BILL NO 13</u>			
	<u>PLASTERING</u>			
				R

<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p><u>BILL NO 15</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p>For preambles see "Model Preambles for Trades"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Wire gratings</u></p> <p>Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings</p> <p><u>Stormwater channels</u></p> <p>Descriptions of channels shall be deemed to include all necessary excavation and disposal of surplus material</p> <p><u>Rock excavations</u></p> <p>No claim for rock excavation will be entertained unless the contractor has timeously notified the principal agent thereof prior to backfilling</p> <p>"Soft rock" and "hard rock" shall be as defined in "Earthworks"</p> <p><u>Laying, backfilling, bedding, etc of pipes</u></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions</p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:</p> <p>SANS 1200 L : Medium-pressure pipelines, SANS 1200 LD : Sewers and SANS 1200 LE : Stormwater drainage</p> <p>Pipe trenches, etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SANS 1200 DB : Earthworks (Pipe trenches)</p> <p>Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SANS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding</p> <p style="text-align: right;"><u>Carried to Collection</u></p> <p><u>BILL NO 15</u></p> <p><u>PLUMBING AND DRAINAGE</u></p>			
		R	

Concrete pipes

Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings

Vitrified clay pipes etc

Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including concrete laid in a semi-dry state immediately before pipes are laid

uPVC pipes and fittings

Drainage pipes and fittings shall be jointed and sealed with butyl rubber rings

Sanitary plumbing pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

Gratings, covers, etc

Gratings, covers, etc shall be as manufactured by "Saint-Gobain", unless otherwise described

French drains

Descriptions of french drains shall be deemed to include for battered sides and sloping bottoms with inlet chamber size 300 x 300mm internally under inlet pipe, from bottom of drain to top of pipe, formed of loosely packed, rough, hard stone walls and covered with precast concrete slab size 600 x 600 x 100mm thick and the rest of the drain filled in to the same height with similar stone graded from 300mm diameter at bottom to 50mm diameter at top, covered with galvanised corrugated iron sheets treated on both sides with bituminous paint and 300mm earthfilling over

Septic tanks

Descriptions of septic tanks shall be deemed to include concrete base slabs, jointing to drains, etc

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

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

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

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BILL NO 15
PLUMBING AND DRAINAGE

R

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

Flush pans

Flush pans shall have straight or side outlets and "P" or "S" traps as necessary

uPVC pressure pipes and fittings

Pipes for water supply shall be of the class described

Pipes of 42mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings

Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints

HDPE (high density polyethylene) pipes and fittings

Pipes shall be type 4 and of the class specified with "Plasson" or "Alprene" compression fittings

"Polycop" polypropylene pipes

Polypropylene pipes of 54mm diameter and smaller shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes, as described

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

All pipe diameters are nominal external

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 "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016

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Fixing of pipes

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for :

- casting in, building in, chasing in and fixing to walls, etc, including chasing; or
- placing in ground or filling under solid floors, including necessary excavation, backfilling and ramming; or
- suspending not exceeding 1m below suspension level

Disinfection of potable water pipelines

Descriptions of all potable water pipelines shall be deemed to include for disinfection in accordance with 5.10 of SANS 1200 L

Reducing fittings

Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm, only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm, all sizes are given and no claim for extra bushes, reducers, etc will be entertained

Steel sectional water tanks

Tanks shall comply with CKS 114

Geyser installations

Geyser installations shall comply with SANS 10254

"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd

Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with relevant overlaps for specific diameters of pipes

Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions, including all mastic, tape, "Layflat" sheeting, securing of same, etc

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

General

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete

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PLUMBING AND DRAINAGE

R

Descriptions of pipes laid in and including trenches, sumps, catchpits, junction boxes, inspection chambers, french drains, septic tanks and the like shall be deemed to include for excavations, bedding of pipes, risk of collapse, keeping free of water, a dewatering system for removal of seepage water and water from other subterranean sources in the excavations designed and executed by the contractor, backfilling, compaction to a minimum of 93% modified AASHTO density and disposal of surplus material

Descriptions of sumps, catchpits, junction boxes, inspection chambers and the like shall be deemed to include reinforcement, step irons and channels where applicable

Descriptions for jointing of new to existing pipes shall be deemed to include searching for the existing pipe, exposing if necessary, cutting into, jointing and necessary fittings

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

Descriptions of all sanitary fittings shall be deemed to include for silicone sealant pointing between the fittings and finished wall surfaces

Descriptions of copper service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to pipes

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

RAINWATER DISPOSAL

"Watertite" aluminium

1	125mm Ogee eaves gutters	m	149
2	Extra over for eaves or plinth offset	No	8
3	Extra over for stopped end	No	12
4	Extra over for angle	No	12
5	Extra over for outlet for 100 x 75mm pipe	No	12
6	Extra over for shoe	No	12
7	100 x 75mm Rainwater pipes	m	44

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PLUMBING AND DRAINAGE

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SOIL DRAINAGE

Class 34 uPVC pipes

8	110mm Pipes vertically or ramped to rodding eyes, etc (no excavations)	m	6
9	110mm Pipes laid in and including trenches not exceeding 1m deep	m	53
10	110mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	16

Extra over class 34 uPVC pipes for uPVC fittings

11	110mm Bend	No	16
12	110mm Junction	No	12
13	110mm Access pipe	No	2
14	110mm Access bend	No	8
15	110mm Access double junction	No	1

uPVC gulleys

16	110mm Gully not exceeding 0.75m deep	No	5
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Sundries

17	Excavate for and locate and cut into existing 110mm pipe fit new junction for 110mm pipe, fill and ram.		Item
18	110mm uPVC "ABC" cleaning eye	No	3
19	Testing soil drainage system		Item

SANITARY FITTINGS

"Vaal"

20	595 x 455mm "Cameo" vanity basin	No	4
21	"Orchid" top inlet wall hung washdown pan with cradle bracket and legs (flush valve elsewhere)	No	2
22	Weaver basin wall mounted with concealed bracket (bracket code 8131Z2) with "Giobella" A186 round bottle trap	No	3
23	"Protea" low level paraplegic suite comprising washdown pan and 9 litre cistern with side-flush lever	No	1

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24	"Hibiscus" close coupled suite comprising washdown pan and cistern with top dual flush system	No	3
25	"Flatback" wall hung bowl urinal (flush valve elsewhere)	No	3
<u>WASTE UNIONS, ETC</u>			
<u>"Cobra Watertech"</u>			
26	32mm 301CP basin waste union	No	6
27	32mm 303CP basin waste union with 309-32CP anti-theft plug	No	1
<u>TRAPS, ETC</u>			
<u>"Marley" rubber</u>			
28	32mm Plain "P" or "S" trap	No	7
<u>"Cobra Watertech"</u>			
29	75mm VA3.113CP urinal domical grating	No	3
30	32mm 345/40CP bottle trap	No	3
<u>VALVES, TAPS, ETC</u>			
<u>"Cobra Watertech"</u>			
31	22mm 1003/125 Gate valve	No	1
32	28mm 1003/125 Gate valve	No	1
33	15mm 832/350F Angle valve with 350mm flexible hose connector	No	17
34	22mm 138CP "Star" undertile stoptap	No	3
35	"Gala" single lever mixer GA-651	No	1
36	15mm 903CP "Focus" single taphole basin mixer with anti-theft plug, basin waste, mounting kit, angle valves and flexible inlets	No	6
37	20mm PB1.10 Vacuum breaker	No	1
38	20mm PA1.1L "Closy" 100 kPa pressure control valve with PB6.302 vacuum breaker	No	4
39	22mm Geyser installation pack of PA3.332 "Masterflo 1" 400kPa pressure control valve, 131-22 stoptap and two PB6.303 vacuum breakers	No	1
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<u>PLUMBING AND DRAINAGE</u>			

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40	20mm FJ6.000CP "Junior Flushmaster" exposed urinal flushvalve and FJT5.4CP tailpipe	No	3		
41	32mm FM1.210CP "Flushmaster" exposed top entry toilet flushvalve	No	6		
<u>SANITARY PLUMBING</u>					
<u>uPVC pipes</u>					
42	40mm Pipes	m	13		
43	50mm Pipes	m	30		
44	110mm Pipes	m	12		
<u>Extra over uPVC pipes for fittings</u>					
45	50mm Stop end	No	2		
46	50 x 32mm BSP adaptor	No	4		
47	50 x 38mm BSP adaptor	No	4		
48	40mm Bend	No	12		
49	50mm Bend	No	20		
50	110mm Bend	No	8		
51	40mm Junction	No	6		
52	50mm Junction	No	8		
53	110mm Junction	No	8		
54	50mm Double junction	No	2		
55	110mm Pan connector	No	4		
56	40mm Access bend	No	1		
57	50mm Access bend	No	10		
58	110mm Access bend	No	4		
59	40mm Access junction	No	5		
60	50mm Access junction	No	3		
61	110mm Access junction	No	2		
62	110 x 50 x 50mm Access reducing double junction	No	1		
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<u>PLUMBING AND DRAINAGE</u>					
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63	110mm Vent cowl	No	1
	<u>Sundries</u>		
64	Testing sanitary plumbing pipe system		Item
	<u>WATER SUPPLIES</u>		
	<u>Class 10 HDPE pipes</u>		
65	32mm Pipes laid in and including trenches	m	45
66	40mm Pipes laid in and including trenches	m	10
67	50mm Pipes laid in and including trenches	m	12
	<u>Extra over class 10 HDPE pipes for "Plasson" fittings</u>		
68	50 x 40mm Reducer	No	2
69	32mm Bend	No	4
70	40mm Bend	No	3
71	50mm Bend	No	2
72	40mm Tee	No	1
73	50mm Tee	No	1
	<u>Class 2 copper pipes</u>		
74	15mm Pipes	m	45
75	22mm Pipes	m	25
76	28mm Pipes	m	4
77	35mm Pipes	m	16
	<u>Extra over class 2 copper pipes for capillary fittings</u>		
78	15mm Fittings	No	15
79	22mm Fittings	No	20
80	28mm Fittings	No	5
81	35mm End cap	No	4
82	35mm Reducer	No	2
83	35mm Elbow	No	8

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PLUMBING AND DRAINAGE

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84	35mm Tee	No	4
85	35mm Reducing tee	No	4
	<u>Sundries</u>		
86	150 x 150mm Type 11A cast iron stopcock box, including brick chamber below not exceeding 0.50m deep internally	No	1
87	Testing water pipe system		Item
	<u>ELECTRIC WATER HEATERS</u>		
	<u>"Kwikot"</u>		
88	150 Litre "600 Dual" standard floor/wall mounted electric water heater	No	1
	<u>FIRE APPLIANCES, ETC</u>		
	<u>"Chubb"</u>		
89	4.5kg Dry chemical powder fire extinguisher on and including a painted backing board	No	4
90	9kg Dry chemical powder fire extinguisher on and including a painted backing board	No	2
	<u>AS-BUILT DRAWINGS</u>		
91	Allow for an updated set of as-built drawings to be handed to the principal agent at completion of the contract		Item

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PLUMBING AND DRAINAGE

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BILL NO 15

PLUMBING AND DRAINAGE

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PLUMBING AND DRAINAGE

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<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>BILL NO 17</u>			
<u>PAINTWORK</u>			
For preambles see "Model Preambles for Trades"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>DESCRIPTIONS</u>			
Descriptions of paintwork shall be deemed to include for all cutting in			
<u>PREPARATORY WORK TO EXISTING SURFACES</u>			
<u>Plaster or concrete surfaces</u>			
Surfaces shall be thoroughly cleaned down by high pressure water jet and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed. All existing walls to be made good where damaged by removals, furniture, etc, and all screw and nail holes and cracks shall be opened, primed with plaster primer, filled with a suitable filler and finished smooth			
<u>Metal surfaces</u>			
Surfaces shall be thoroughly rubbed and cleaned down by means of grit blasting or wire brushing. Blistered or peeling paint, including all traces of corrosion, shall be completely removed down to bare metal			
<u>Previously painted wood surfaces</u>			
Surfaces shall be thoroughly cleaned down by scraping and sanding all loose and flaking paint. All dust and surface contamination are to be removed by wiping down. All exposed nail heads are to be punched in and primed with one coat metal primer. Holes, cracks and crevices shall be primed with wood primer, filled with wood stopping and finished smooth			
<u>Carried to Collection</u>			
<u>BILL NO 17</u> <u>PAINTWORK</u>		R	

Previously varnished/natural wood surfaces

Surfaces shall be thoroughly cleaned down with existing coatings removed by sanding and/or using paint remover. All residual paint remover and surface contamination are to be removed by washing down, allowed to dry and sandpapered to a uniformed surface. All exposed nail heads are to be punched in and primed with one coat metal primer. Holes, cracks and crevices shall be treated with woodcare pretreatment, filled with wood stopping and finished smooth

PAINT SPECIFICATIONS

All painting shall be done in accordance with "Plascon" specifications unless otherwise specified

PAINTWORK, ETC TO NEW SURFACES ON

SMOOTH PLASTER OR CONCRETE SURFACES WITH

One coat alkali resistant plaster primer and two coats superior matt acrylic paint on

1	Walls	m2	162
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PLASTER BOARD SURFACES WITH

One coat alkali resistant plaster primer and two coats superior matt acrylic paint on

2	Ceilings and cornices	m2	732
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FIBRE-CEMENT SURFACES WITH

Two coats pure acrylic paint on

3	Fascias and barge boards	m2	45
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4	Extra over paintwork in other colours for paintwork in colours which have a value of 7 or less on the Munsell system	m2	45
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METAL SURFACES WITH

Spot priming defects in pre-primed surfaces with metal primer and two coats super universal enamel paint on steel

5	Windows	m2	4
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6	Windows with burglar bars	m2	2
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7	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	44
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PAINTWORK

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WOOD SURFACES WITH

Two coats wood primer on

8 Backs of frames, linings, etc not exceeding 300mm wide m 109

One coat wood primer and two coats super universal enamel paint on

9 Doors m2 27

10 Door frames m2 3

11 Skirtings, rails, etc not exceeding 300mm girth m 346

Three coats suede woodcare ultra varnish on

12 Skirtings, rails, etc not exceeding 300mm girth m 59

One prime coat 'Ivory 402' single component solvent based polyurethane sealer thinned with 'Ivory 402 Thinners' 15% (5m²/1 litre) and two coats 'Ivory 403' single component polyurethane coating applied by means of brush, roller or airless spray gun (8m²/1 litre per coat)

13 On boarded flooring m2 209

PAINTWORK, ETC TO EXISTING SURFACES ON

SMOOTH PLASTER OR CONCRETE SURFACES WITH

Two coats superior matt acrylic paint on work in sound condition on

14 Columns m2 56

Two coats fine texture acrylic paint on work in poor condition on

15 Walls m2 1 012

BRICK OR QUARRY TILE SURFACES WITH

Two coats brick and slasto dressing on

16 Floors m2 172

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BILL NO 17
PAINTWORK

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WOOD SURFACES WITH

Spot priming bare wood surfaces with wood primer and two coats super universal enamel paint on work in poor condition on

17	Doors	m2	179
18	Door frames	m2	53
19	General surfaces at eaves and verges	m2	97
20	On windows	m2	163

One prime coat 'Ivory 402' single component solvent based polyurethane sealer thinned with 'Ivory 402 Thinners' 15% (5m²/1 litre) and two coats 'Ivory 403' single component polyurethane coating applied by means of brush, roller or airless spray gun (8m²/1 litre per coat)

21	On boarded flooring	m2	522
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BILL NO 17

PAINTWORK

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BILL NO 17
PAINTWORK

<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
BILL NO 18			
<u>PROVISIONAL AMOUNTS, ETC</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>General</u>			
All prime cost and provisional amounts are net			
<u>Overheads and profit</u>			
The contractor may allow for overheads and profit if required in the item "Allow for overheads and profit" wherever indicated			
<u>Profit and general attendance upon selected subcontractors</u>			
The item "Allow for profit and general attendance" which follows each selected subcontractor, shall be deemed to allow for the contractor's profit if required and to cover all the contractor's costs incurred in providing free of charge to the selected subcontractors, the following:			
<ol style="list-style-type: none"> 1. Access to the site and places where the subcontract work is to be carried out, including the reasonable use of any temporary personnel hoists erected by the contractor 2. Hoisting of the subcontractor's material in batches that can be handled by the contractor's hoist or crane during normal working hours 3. The provision of water and lighting and of single phase electric power to a position within 50m of the place where the subcontractor's work is to be carried out other than water, fuel and power for commissioning of any installation 4. The provision of an area for the subcontractor to establish temporary office accommodation and workshops and for the storage of plant and materials and goods 5. The use of erected scaffolding belonging to the contractor, along with others having the like right. Scaffolding will remain erected on site until all work which requires the use thereof has been completed 6. The use of ablution facilities and the like, where provided 			
<u>Carried to Collection</u>		R	
<u>BILL NO 18</u> <u>PROVISIONAL AMOUNTS, ETC</u>			

- 7. The use of the site telecommunication facilities, where provided, subject to payment by the subcontractor for usage thereof
- 8. Making good in all trades and cleaning down and removal of rubbish on completion

Preliminaries

The contractor is referred to the Preliminaries for further amplification of "Prime Cost Amounts"

BUDGETARY ALLOWANCES

Sundry builders' work

- 1 Provide an amount of R100 000.00 (one hundred thousand rand) for sundry builders' work

Item

100 000 00

SELECTED SUBCONTRACTORS WORK

Electrical Installation

- 2 Provide an amount of R 200 000.00 (two hundred thousand rand) for electrical installation
- 3 Allow for profit and general attendance

Item

200 000 00

Item

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BILL NO 18
PROVISIONAL AMOUNTS, ETC

BILL NO 18

PROVISIONAL AMOUNTS, ETC

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BILL NO 18

PROVISIONAL AMOUNTS, ETC

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10	FLOOR COVERINGS, WALL LININGS, ETC	-45-	
11	IRONMONGERY	-49-	
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16	GLAZING	-67-	
17	PAINTWORK	-72-	
18	PROVISIONAL AMOUNTS, ETC	-75-	
	<u>Carried to Final Summary</u>		
			R

<u>Item No</u>	<u>Pay Ref</u>		<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
		<u>BILL NO 1</u>				
		<u>ROAD WORKS</u>				
		For preambles see "SANS 1200 Standardised Specification for Civil Engineering Works"				
	<u>SANS 1200</u>	<u>Site Clearance</u>				
1	<u>8.2.1</u>	Clear and grub	m2	1 000		
	<u>8.2.2</u>	<u>Remove and grub large trees and tree stumps of girth</u>				
2	<u>8.2.2</u>	Over 1m and up to and including 2m	No	1		
3	<u>8.2.2</u>	Over 2m and up to and including 3m	No	1		
4	<u>8.2.2</u>	Over 3m, in steps of 1m	No	1		
	<u>SANS 1200</u>	<u>Earthworks (Roads, Subgrade)</u>				
	<u>8.3.3</u>	<u>Treatment of road-bed and road bed preparation and compaction of material to</u>				
5	<u>8.3.3</u>	Minimum of 93% of Mod AASHTO maximum density	m3	105		
	<u>SANS 1200</u>	<u>In-place treatment of road-bed in intermediate or hard rock material by</u>				
6	<u>8.3.3</u>	Ripping	m3	5		
	<u>8.3.4</u>	<u>Cut to fill, borrow to fill compact to 90% of Mod AASHTO maximum density</u>				
7	<u>8.3.4</u>	Cut to fill	m3	50		
	<u>SANS 1200</u>	<u>Sub-base</u>				
8	<u>8.3.1</u>	Construct sub-base course/shoulders/gravel wearing course with material from borrow pits(150mm G5/G6 150mm compacted to 95% Mod AASHTO density)	m3	105		
9	<u>8.3.9</u>	Overhaul (haul exceeding 2km) provisional	m3km	500		
		<u>Carried to Collection</u>				
		<u>BILL NO 1</u>				
		<u>ROAD WORKS</u>				
					R	

	<u>SANS 1200</u>	<u>Kerbing & Channeling</u>		
10	<u>8.2.2</u>	Concrete kerbing and channelling (Fig 6 precast kerb and 70mm channel)	m	170
	<u>SANS 1200</u>	<u>Trimming of excavations for concrete-lined open drains in</u>		
11	<u>8.2.7</u>	Soft materials	m2	6
12	<u>8.2.7</u>	Intermediate materials	m2	2
	<u>SANS 1200</u>	<u>Cast in-situ concrete lining to open drains for</u>		
13	<u>8.2.8</u>	1200mm concrete v-drain (25/19 concrete)	m3	6
	<u>SANS 1200</u>	<u>Formwork to cast in-situ lining of open drains (smooth surface finish)</u>		
14	<u>8.2.9</u>	To sides of drains	m2	10
15	<u>8.2.9</u>	To ends of slabs	m2	3
16	<u>8.2.10</u>	Sealed joints in concrete lining of open drains	m	38

Carried to Collection

BILL NO 1
ROAD WORKS

R

BILL NO 1

ROAD WORKS

COLLECTION

Total Brought Forward from Page No.

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No**

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Amount

Carried Forward to Summary of Section No.

BILL NO 1
ROAD WORKS

R

<u>Item No</u>	<u>Pay Ref</u>		<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
		<u>BILL NO 2</u>				
		<u>EARTHWORKS (SMALL WORKS)</u>				
		For preambles see "SANS 1200 Standardised Specification for Civil Engineering Works"				
	<u>SANS 1200</u>	<u>Excavation</u>				
1	<u>8.3.1</u>	Remove topsoil to a nominal depth 150mm stockpile and maintain	m2	685		
2	<u>8.3.1</u>	Excavate in all materials and use for embankment or backfill or disposal	m3	500		
	<u>SANS 1200</u>	<u>Extra - over for</u>				
3	<u>8.3.1</u>	Intermediate excavation	m3	10		
4	<u>8.3.1</u>	Extra over item no. 5 page 69 for excavation in hard rock (Prov quantity only)	m3	10		
	<u>SANS 1200</u>	<u>Restricted Excavation</u>				
5	<u>8.3.2</u>	For concrete apron slabs	m3	5		
6	<u>8.3.4</u>	Importing of material from borrow pit for fill below gravel surfacing compacted in position to 93% Mod Aashto density Free haul distance up to 5km (Prov)	m3	10		
7	<u>8.3.6</u>	Topsoiling 75 mm thick from existing stockpile to areas surrounding the hall, platform and road banks	m2	50		
8	<u>8.3.7</u>	Grassing to platform and road banks (runners @ 300mm centres)	m2	50		
		<u>Carried Forward to Summary of Section No.</u>				
		<u>BILL NO 2</u>				
		<u>EARTHWORKS (SMALL WORKS)</u>				
					R	

<u>Item No</u>	<u>Pay Ref</u>		<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
		<u>BILL NO 3</u>				
		<u>CONCRETE (ORDINARY BUILDINGS)</u>				
		For preambles see "SANS 1200 Standardised Specification for Civil Engineering Works"				
	<u>SANS 1200</u>	<u>Formwork vertical smooth</u>				
1	<u>8.2.1</u>	To edges,risers and ends not exceeding 75mm high for slabs and aprons at ground level	m2	3		
2	<u>8.2.5.1</u>	Grade 20/19 concrete 75mm thick apron slab	m3	5		
	<u>SANS 1200</u>	<u>Unformed Surface finishes</u>				
3	<u>8.2.6</u>	Steel floated finishes to concrete apron	m2	66		
		<u>Carried Forward to Summary of Section No.</u>				
		<u>BILL NO 3</u>				
		<u>CONCRETE (ORDINARY BUILDINGS)</u>				
					R	

<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	BILL NO 5			
	DAYWORKS			
	<u>Labour</u>			
1	Unskilled Labour	Hrs	100.00	
2	Semi-skilled labour	Hrs	100.00	
3	Skilled labour	Hrs	50.00	
4	Foreman	Hrs	50.00	
	<u>Machinery</u>			
5	Provisional sum for plant hire R 20 000.00 (twenty thousand rand)		Item	20 000 00
6	Allow for profit and general attendance		Item	
	<u>Materials</u>			
7	Provisional for materials as requested by Engineer R 20 000 (twenty thousand rand)		Item	20 000 00
8	Allow for profit and general attendance		Item	
	<u>Carried Forward to Summary of Section No.</u>			
	BILL NO 5			
	DAYWORKS			
			R	

SECTION SUMMARY - EXTERNAL WORKS

<u>Bill No</u>		<u>Page No</u>	<u>Amount</u>
1	ROAD WORKS	-79-	
2	EARTHWORKS (SMALL WORKS)	-80-	
3	CONCRETE (ORDINARY BUILDINGS)	-81-	
4	FENCING	-82-	
5	DAYWORKS	-83-	
	<u>Carried to Final Summary</u>		R

SUMMARY

- 1 PRELIMINARIES
- 2 BUILDING WORKS
- 3 EXTERNAL WORKS

**Page
No**

-11-
-76-
-84-

Amount

SUB-TOTAL

R

LESS : Credit for old materials

Item

SUBTOTAL

R

ADD : Value Added Tax (14%)

R

TOTAL CARRIED FORWARD TO TENDER FORM

R