

Amount

C1 CONTRACT DRAWINGS

- 101 The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed

Should any part of the drawings not be clearly intelligible to the tenderer he/she shall, before submitting his tender, obtain clarification in writing from the employer

Fixed: _____ Value related: _____ Time related: _____

Item

C2 GENERAL PREAMBLES

- 102 For preambles see "Model Preambles for Trades (2008 Edition)". The document is available from the Association of South African Quantities Surveyors on their website (www.asaqs.co.za) and shall be read in conjunction with the bills of quantities / lump sum document and be referred to for the full descriptions of work to be done and materials to be used

Fixed: _____ Value related: _____ Time related: _____

Item

C3 TRADE NAMES

- 103 Wherever a trade name for any product has been described in the bills of quantities, the tenderer's attention is drawn to the fact that this indicates the minimum specification and it will be assumed that the bid amount included all materials as specified and approval for alternatives must be obtained in writing during the construction phase from the principal agent

If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for and is to be supplied

Fixed: _____ Value related: _____ Time related: _____

Item

C4 IMPORTED MATERIALS AND EQUIPMENT

- 104 Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or

equipment shall be excluded from currency fluctuations, (refer to Schedule of Imported Materials and Equipment to be completed by tenderer)

Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)

Fixed: _____ Value related: _____ Time related: _____

Item

C5 VIEWING THE SITE IN SECURITY AREAS

- 105 The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes

Carried to Collection

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Preliminaries

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Fixed: _____ Value related: _____ Time related: _____

Item

C6 COMMENCEMENT OF WORKS IN SECURITY AREAS

- 106 As the works falls within a security area the contractor must give the unit commander or other responsible officer notice before commencement of the works. Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account

Fixed: _____ Value related: _____ Time related: _____

Item

C7 ENTRANCE PERMITS TO SECURITY AREAS

- 107 As the works falls within a security area the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer

Fixed: _____ Value related: _____ Time related: _____

Item

C8 SECURITY CHECK OF PERSONNEL

- 108 The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified

In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works

Fixed: _____ Value related: _____ Time related: _____

Item

C9 OCCUPATIONAL HEALTH AND SAFETY ACT

The contractor shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993, (Act no 85 of 1993) as amended.

It is required of the contractor to thoroughly study the Occupational Health and Safety Specification that must be read together with and is deemed to be incorporated under the section of the Bills of Quantities/lump sum document.

The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.

- 109 Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.

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Fixed: _____ Value related: _____ Time related: _____

Item

C9.1 CONSOLIDATED COVID-19 DIRECTION ON HEALTH AND SAFETY MEASURES IN WORKPLACES - IN TERMS OF REGULATION 4(10) OF THE NATIONAL DISASTER REGULATIONS

- 110 Provision for pricing of the above-mentioned directive and the annexed guidelines and all amendments is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced here and no additional claims in this regard shall be entertained

Fixed: _____ Value related: _____ Time related: _____

Item

C10 WARRANTS FOR MATERIALS AND WORKMANSHIP

- 111 Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the entity supplying the materials and/or doing the work and shall deliver same to the principal agent on the final completion of the contract

The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of final completion and that any defects that may arise during the specified period shall be made good at the expense of the entity supplying the materials and/or doing the work, upon written notice to do so

The warranty will not be enforced if the work is damaged by defects in the execution of the works, in which case the responsibility for replacement shall rest entirely with the contractor

Fixed: _____ Value related: _____ Time related: _____

Item

C11 OVERTIME

- 112 Should overtime be required to be worked for any reason whatsoever, the costs of such overtime is to be borne by the contractor unless the employer has specifically

authorised, in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer

Fixed: _____ Value related: _____ Time related: _____

Item

C12 CO-OPERATION OF CONTRACTOR FOR COST MANAGEMENT

- 113 It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The principal agent undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedure to be implemented and the contractor shall attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures, as necessary, to all subcontractors

Fixed: _____ Value related: _____ Time related: _____

Item

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C13 PROPPING OF FLOORS BELOW

- 114 The contractor is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of materials and goods and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the principal agent and the cost thereof shall be borne by the contractor

Fixed: _____ Value related: _____ Time related: _____

Item

C14 TESTING OF WINDOWS FOR WATERTIGHTNESS

- 115 Each window shall be tested for watertightness with water sprayed on using adequate pressure. If in the opinion of the principal agent, the pressure proves to be inadequate, then the pressure shall be boosted by means of compressed air or other approved means

Fixed: _____ Value related: _____ Time related: _____

Item

C15 TESTING OF FLAT ROOF WATERPROOFING FOR WATERTIGHTNESS

- 116 Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the

waterproofing and before any further construction work is carried out above the

waterproofing

Fixed: _____ Value related: _____ Time related: _____

Item

C16 SOCIAL AND ECONOMIC DELIVERABLES IN CONSTRUCTION WORKS**CONTRACTS**

- 117 The contractor shall thoroughly study and comply with the requirements and specification data as set out in Part C3 6: Specification for Social and economic Deliverables in Construction.

Provision for pricing of Social and Economic Deliverables is made under item C16.1 to C16.4 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, and no additional items or extras to the contract in this regard shall be entertained

Fixed: _____ Value related: _____ Time related: _____

Item

C16.1 UTILIZE LOCAL RESOURCES

- 118 Deliverable A1: Utilize resources as described in the Specification Data.

Fixed: _____ Value related: _____ Time related: _____

Item

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Amount

C16.2 PROVIDE EXPERIENTIAL WORK OPPORTUNITIES TOWARDS TECHNICAL QUALIFICATION FOR DESIGNATED PERSONS

- 119 Deliverable E2: Provide experiential work opportunities towards a technical qualification for designated persons as described in the Specification Data.

Fixed: _____ Value related: _____ Time related: _____

Item

C16.3 PROVIDE EXPERIENTIAL WORK OPPORTUNITIES AND TRAINING TOWARDS TRADE COMPETENCE FOR DESIGNATED PERSONS

- 120 Deliverable E3: Provide experiential work opportunities and training towards trade

competence for designated persons as described in the Specification Data.

Fixed: _____ Value related: _____ Time related: _____

Item

C16.4 PROVIDE AND MANAGE TRAINING PROVIDERS TO PROVIDE LIFE SKILLS TRAINING TO EMPLOYEES

- 121 Deliverable E4: Procure and manage a training provider to provide specific training for the minimum number of employees as per Part C3.6 in life skills training as described in the Specification Data.

Fixed: _____ Value related: _____ Time related: _____

Item

C17 USE OF LOCAL SMME's

- 122 It is the requirement of the employer that the contractor enhances the use of local Small, Micro and Medium Enterprises (SMME's) involved in the project. This is required to be done through the use of both traditional building techniques and labour intensive construction techniques careful and considered construction planning Provision for pricing of compliance with the aforementioned is made under this clause and it is explicitly pointed out that all requirements in respect of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained

(a) SMME's involvement of at least 30% of the contract value to be sourced from within a specified range from the project site

Fixed: _____ Value related: _____ Time related: _____

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PRELIMINARIES
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Unit	Quantity	Rate	Amount
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BILL NO. 3**EARTHWORKS (PROVISIONAL)**

NOTE : For all TRADE NAMES and the use of alternative items, refer to Section 3: Specific Preliminaries item C3

SUPPLEMENTARY PREAMBLES**Nature of ground**

Description of excavations shall be deemed to include all ground conditions classifiable as earth and where conditions of a more difficult character might be encountered, these are separately measured

A soils investigation has been carried out on site by the engineer. Descriptions of excavations shall be deemed to include all ground conditions classifiable as 'earth' described in the above report and where conditions of a more difficult character are indicated these are separately measured

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

EXCAVATION, FILLING, ETC**Excavation in earth not exceeding 2m deep**

1	Trenches	m ³	1 146
2	Holes	m ³	113

Extra over all excavations for carting away

3	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	436
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Extra over trench and hole excavations in earth for excavation in

4	Soft rock	m ³	155
5	Hard rock	m ³	79

Risk of collapse of excavations

6	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	2 686
7	Sides of trench and hole excavations exceeding 1,5m deep not exceeding 3m deep	m ²	256

Carried to Collection

R

Bill No. 3

Earthworks (provisional)

98

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SM

Lm

	Unit	Quantity	Rate	Amount
<u>Keeping excavations free of water</u>				
8 Keeping excavations free of all water other than subterranean water	Item			
<u>19mm Crushed stone aggregate filling</u>				
9 150mm Filling on ground (Preparation of surfaces elsewhere)	m ²	6		
10 100mm Thick in flower boxes	m ²	6		
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>				
11 Under floors, steps, pavings, etc	m ³	14		
12 Backfilling to trenches, holes, etc	m ³	694		
<u>G5 earth filling in 150mm layers supplied by the contractor compacted to 95% Mod AASHTO density</u>				
13 Under floors, steps, pavings, etc	m ³	51		
<u>G7 earth filling in 150mm layers supplied by the contractor compacted to 95% Mod AASHTO density</u>				
14 Under floors, steps, pavings, etc	m ³	604		
<u>Filling of coarse river sand supplied by the contractor. consolidated</u>				
15 50mm Thick under surface beds	m ²	163		
<u>Garden soil filling supplied by the contractor</u>				
16 In flower boxes	m ³	4		
<u>Compaction of surfaces</u>				
17 Compaction of ground surface under bases etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Modified AASHTO density	m ²	987		
<u>Prescribed density tests on filling</u>				
18 'Modified AASHTO Density' test	No	15		
<u>FILTER FABRIC</u>				
<u>Bidum U14 geofabric filter blanket sealed at laps with pressure sensitive tape</u>				
19 Over stone percolation beds in flower boxes	m ²	6		
Carried to Collection			R	
Bill No. 3				99
Earthworks (provisional)				hm 5m

Soil insecticide - Chlordane or Aldrin according to manufacturers specification, including 50mm sand cover over. Compliance certificate with 10 year quarentee to be provided

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BILL NO. 3

EARTHWORKS (PROVISIONAL)

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Bill No. 3
Earthworks (provisional)

R

101

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Unit	Quantity	Rate	Amount
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BILL NO. 4**CONCRETE, FORMWORK AND REINFORCEMENT**

NOTE : For all TRADE NAMES and the use of alternative items, refer to Section 3: Specific Preliminaries item C3

SUPPLEMENTARY PREAMBLES**Cost of tests**

The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)

Formwork

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

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 slabs not exceeding 200mm thick 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 'Foundations'

Degree of accuracy of formwork: Grade 2 as SABS 1280G

Permissible deviations: Flatness of plain surface - 5mm
Abrupt changes in a continuous surface - 5mm

Carried to Collection

Bill No. 4

Concrete, Formwork And Reinforcement

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	Unit	Quantity	Rate	Amount
<u>UNREINFORCED CONCRETE</u>				
<u>15Mpa / 19mm Concrete</u>				
1 Blinding (Provisional)	m ³	39		
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>25MPa/19mm concrete</u>				
2 Footings, In foundations (Provisional)	m ³	178		
3 Bases, in foundations (Provisional)	m ³	24		
<u>REINFORCED CONCRETE</u>				
<u>25MPa/19mm concrete</u>				
4 Surface beds cast on waterproofing membrane	m ³	140		
5 Slabs, including beams and inverted beams	m ³	118		
6 Ramps	m ³	1		
7 Beams	m ³	5		
8 Cupboard and bench slabs	m ³	2		
9 Lintols	m ³	3		
10 Window cills	m ³	2		
<u>30MPa/19mm concrete</u>				
11 Walls	m ³	18		
12 Footings. In foundations (Provisional)	m ³	18		
13 Columns	m ³	14		
14 Columns, in foundations (Provisional)	m ³	8		
<u>TEST BLOCKS</u>				
15 Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	180		
<u>CONCRETE SUNDRIES</u>				
<u>Finishing top surfaces of concrete smooth with a wood float</u>				
16 Surface beds, slabs, etc	m ²	1 013		
17 Surface beds, slabs, etc to falls and currents	m ²	156		
18 Ramps	m ²	3		
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Concrete, Formwork And Reinforcement				
35				
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		Unit	Quantity	Rate	Amount
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>				
19	Raking top of cills	m ²	18		
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>				
	<u>Smooth formwork to sides</u>				
20	Rectangular columns	m ²	174		
21	Rectangular columns, in foundations (Provisional)	m ²	109		
22	Walls	m ²	160		
23	Walls, in foundations (Provisional)	m ²	10		
24	Beams	m ²	277		
25	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	77		
	<u>Special formwork to circular columns</u>				
26	300mm Diameter column 2,7m high	No	9		
	<u>Smooth formwork to soffits</u>				
27	Slabs	m ²	435		
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>Mild steel reinforcement to structural concrete work</u>				
28	12mm Diameter bars	Tonnes	1.27		
29	10mm Diameter bars	Tonnes	1.85		
30	8mm Diameter bars	Tonnes	0.72		
	<u>High tensile steel reinforcement to structural concrete work</u>				
31	25mm Diameter bars	Tonnes	9.94		
32	20mm Diameter bars	Tonnes	9.19		
33	16mm Diameter bars	Tonnes	6.06		
34	12mm Diameter bars	Tonnes	8.40		
35	10mm Diameter bars	Tonnes	2.23		
	<u>Fabric reinforcement</u>				
36	Ref 193 mesh in surface beds, slabs, etc	m ²	1 606		
	Carried to Collection				
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CONCRETE. FORMWORK AND REINFORCEMENT

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Concrete, Formwork And Reinforcement

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	Unit	Quantity	Rate	Amount
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BILL NO. 5**MASONRY**

NOTE : For all TRADE NAMES and the use of alternative items, refer to Section 3: Specific Preliminaries item C2

BRICKWORK**Brickwork of NFP bricks in class 11 mortar**

1	Piers	m ³	20	
2	Piers, in foundations (Provisional)	m ³	12	
3	110mm Brick wall	m ²	679	
4	110mm Brick wall, in foundations.(Provisional)	m ²	505	
5	110mm Brick wall in beamfilling	m ²	80	
6	220mm Brick wall	m ²	2 360	
7	220mm Brick wall, in foundations (Provisional)	m ²	946	
8	330mm Brick wall	m ²	57	
9	330mm Brick wall, in foundations (Provisional)	m ²	39	
10	330mm Brick wall, in feature lintols or beams	m ²	40	

BRICKWORK SUNDRIES

11	Extra for building brickwork to oversailing face with each course projecting 55mm	m ²	1	
12	Splayed mortar fillet one course high x 110mm wide	m	94	

Joint forming material in movement joints

13	12mm Expanded polystyrene not exceeding 150mm high with one tear off strip built in vertically between brick walls and concrete	m	922	
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Brickwork reinforcement

14	75mm Wide reinforcement built in horizontally	m	775	
15	150mm Wide reinforcement built in horizontally	m	10 402	
16	100 x 200mm High tensile steel mesh of 5mm thick strands, buit in vertically between brick skins (Provisional)	m ²	1 368	

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Bill No. 5
Masonry

106
SM

		Unit	Quantity	Rate	Amount
	<u>Galvanised wire ties etc</u>				
17	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	625		
	<u>Prestressed fabricated lintols</u>				
18	110 x 70mm Lintols in lengths not exceeding 3m	m	143		
19	110 x 70mm Lintols in lengths exceeding 3m and not exceeding 4,5m	m	33		
20	110 x 70mm Lintols in lengths exceeding 4,5m and not exceeding 6m	m	54		
	<u>Old World type Ilovo 320/220 or similar and approved precast concrete copings</u>				
21	Plain precast concrete copings with smooth finish all round laid in cement mortar to top of 220mm walls	m	44		
	<u>Turning pieces</u>				
22	To soffit of brickwork lintel 110mm wide	m	98		
23	To soffit of brickwork lintel 220mm wide	m	2		
	<u>FACE BRICKWORK</u>				
	<u>'Corobrik Agate Travertine /Camel Travertine' FBX or similar and approved face bricks pointed with recessed horizontal and vertical joints</u>				
24	Extra over brickwork for face brickwork in stretcher bond.	m ²	1 020		
25	Extra over brickwork for face brickwork in stretcher bond. In Foundations (Provisional)	m ²	151		
26	Half brick walls pointed on both sides	m ²	33		
	<u>'Corobrik Agate Travertine /Camel Travertine' FBX or similar and approved face bricks pointed with flush horizontal and vertical joints. The whole cleaned and finished with Plascon Thermaplastic Brick Dressing</u>				
27	Extra over brickwork for face brickwork in stretcher bond.	m ²	513		
	<u>Face brick copings, sills, header courses, etc pointed with recessed joints on all exposed faces</u>				
28	Roller course band projecting 25mm on face of wall	m	8		
29	Brick-on-edge roller course lintel pointed on face and 110mm soffit	m	102		
30	Extra for mitred corner or end	No	9		
	Carried to Collection				
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	Masonry				
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Masonry

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Bill No. 5
Masonry

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	Unit	Quantity	Rate	Amount
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BILL NO. 6**WATERPROOFING**

NOTE : For all TRADE NAMES and the use of alternative items, refer to Section 3: Specific Preliminaries item C2

DAMPPOOFING OF WALLS AND FLOORS**One layer of 375 micron black polyethylene damp proof course**

1	In walls	m ²	383	
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One layer of 250 micron 'Consol Plastics Gunplas USB Green' or similar and approved waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape'

2	Under surface beds	m ²	1 169	
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3	In flower boxes	m ²	13	
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WATERPROOFING OF ROOFS, ETC**ABE or similar and approved torch-on waterproofing**

4	In flower boxes	m ²	9	
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5	On screeds to falls and currents	m ²	68	
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6	On splayed fillets 110mmwide with turnups against brickwork	m	94	
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7	Extra for work around rainwater outlet or fullbore	No	8	
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JOINT SEALANTS, ETC**Clear silicone sealing compound**

8	In joints between aluminium frames and walls	m	346	
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Polysulphide sealing compound in

9	12 x 12 mm Joint including raking out of joint filler or removing strip	m	1 496	
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Bill No. 6

Waterproofing

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BILL NO. 7**ROOF COVERINGS**

NOTE : For all TRADE NAMES and the use of alternative items, refer to Section 3: Specific Preliminaries item C2

TILES**User note:**

The fixing recommendations of the manufacturer of the tiles used for the specific region and/or situation are to be incorporated as supplementary preambles

'Marley Antique Amber Monarch' concrete roof tiles (Code: TMOANAM), size 420 x 332mm, or similar approved, laid in straight bond with minimum 75mm headlap, fixed at a pitch of 50° with each tile fixed using non-corrosive nails and Solo fix storm clips (Code: 85/48s) with clips nailed to tiling batten of the intermediate course below and firmly located over the side lock of the tile being fastened to 38 x 38mm sawn softwood battens at maximum 345mm centres, on double-sided Marley Radiant Barrier with joints lapped 150mm, fixed over rafters with trusses (elsewhere specified) at 760 centres

	Unit	Quantity	Rate	Amount
1 Roof covering with 26 degrees pitch	m ²	1 532		
2 Extra on roof covering for double course at eaves including 38 x 50 mm sawn softwood tilting fillet.	m	469		
3 Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour	m	99		
4 Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour	m	335		
5 Verge capping tiles to match roofing tiles fixed with non-corrosive fixing accessories	m	4		
6 Purpose made tile to 3-way intersection of ridge with hips bedded and pointed in 1:3 cement mortar tinted to match tile colour	No	33		
7 Purpose made tile to 4-way intersection of with hips bedded and pointed in 1:3 cement mortar tinted to match tile colour	No	4		

Carried to Collection

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Bill No. 7
Roof Coverings

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	Unit	Quantity	Rate	Amount
<u>ROOF AND WALL INSULATION</u>				
<u>'Sisalation FR 430' Fire retardant heavy industrial grade aluminium foil based insulation</u>				
8 Insulation drawn taut over trusses (at approximately 760mm centres) and secured to each rafter with 38 x 3.2 x 1100mm hardboard counter batten strip, positioned flush with the bottom edge of the material, with 150mm overlap	m ²	1 532		
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Bill No. 7
Roof Coverings

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	Unit	Quantity	Rate	Amount
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BILL NO. 8**CARPENTRY AND JOINERY**

NOTE : For all TRADE NAMES and the use of alternative items, refer to Section 3: Specific Preliminaries item C3

SUPPLEMENTARY PREAMBLES**Fixing**

Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete

ROOFS ETC**Plate nailed timber roof truss construction**

The following is applicable in respect of roof trusses:

Trusses are at maximum 750 mm centres Roof covering is tiles on purlins/battens

Sawn softwood

- | | | | | |
|---|--|----|-----|--|
| 1 | 38 x 114mm Wall plates | m | 487 | |
| 2 | Roof construction to double pitched roof at 26 degree pitch with 500mm overhang and overall height between 1200 and 2500mm with trusses at 750mm centres, including jack rafters, permanent bracing and 38 x 50mm purlins/battens at 320mm centres for roof covering. (Main building, admittance office, cell block, wash bay and refuse room) Total area 1403m ² on flat - refer to Architects drawings as attached. | No | 1 | |

Sundries

- | | | | | |
|---|-------------------------------|----------------|-----|--|
| 3 | Wrought faces on sawn timbers | m ² | 150 | |
|---|-------------------------------|----------------|-----|--|

EAVES, VERGES, ETC**Marley Pipe Systems or equal approved PVC foam fascia/barge board**

- | | | | | |
|---|---|---|-----|--|
| 4 | 225 x 9mm thick Facia board, fixed to 38 x 38mm tilter batten and 38 x 38mm support battens with solid brass screws including fascia connectors (Code: FBCON) between boards with end caps at board ends. | m | 469 | |
| 5 | 225 x 9mm thick Barge board, fixed to timber rafters with solid brass screws including barge connectors (Code: BBCON) between boards and at apex with end caps at board ends. | m | 10 | |

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	Unit	Quantity	Rate	Amount
<u>DOORS ETC</u>				
<u>Wrought meranti doors hung to steel frames</u>				
6 Framed and ledged batten door 44 x 813 x 2032 mm high with top, middle and bottom rail vertical V-jointed one side boarding and covered on other side with 4 mm plywood with veneer to match door let into and including rebates all round. Opening size 300 x 300mm for louvre unit (louvre elsewhere) (D4)	No	7		
7 Framed and ledged batten door 44 x 1036 x 2032 mm high with top, middle and bottom rail vertical V-jointed one side boarding and covered on other side with 4 mm plywood with veneer to match door let into and including rebates all round. Opening size 300 x 300mm for louvre unit (louvre elsewhere) (D4/1)	No	1		
8 Framed and ledged solid door 44 x 813 x 2032mm high double sided with top, middle and bottom rail and Bolection moulds for two sections (D5)	No	8		
9 Framed and ledged solid double door 44 x 1200 x 2032 mm high overall, in two un-equal leaves, with top, middle and bottom rail. Two top sections glazed with beading (glazing elsewhere) and Bolection moulds for two fixed sections (D13)	No	3		
10 Framed and ledged solid double door 44 x 1575 x 2032 mm high overall, in two equal leaves, with top, middle and bottom rail. Two top sections glazed with beading (glazing elsewhere) and Bolection moulds for two fixed sections (D17)	No	2		
11 Framed and ledged solid double door 44 x 1575 x 2032 mm high overall, in two equal leaves with top, middle and bottom rail. Double sided Bolection moulds (D11)	No	3		
<u>Semi-solid Supawood laminated flush doors with veneer for paint</u>				
12 Door 40 x 813mm x 1932mm (D6)	No	12		
13 Door 40 x 813 x 2032mm (D10)	No	44		
14 Double door 40 x 1612 x 2044mm overall (D19)	No	1		
<u>Hilaldam or similar and approved sliding doors including frames, sliding gear with pelmet cover and standard sealer finish (ironmongery elsewhere)</u>				
15 Solid flush panel door 44 x 813 x 2032mm high with veneer for paint both sides, hung in and including sliding door gear, etc complete fixed to brickwork or concrete (D12)	No	1		
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		Unit	Quantity	Rate	Amount
<u>WINDOWS AND CILLS</u>					
<u>Wrought selected Meranti</u>					
16	32 x 120mm Window cills in single lengths with three angle rounded corner edges, plugged	m	3		
<u>BEADS, ARCHITRAVES, ETC</u>					
<u>Wrot softwood</u>					
17	50 x 75mm Sub-frame countersunk screwed to steel	m	7		
<u>Wrought Meranti</u>					
18	Profiled quarter round glazing beads to doors	m	58		
<u>JOINERY FITTINGS</u>					
<u>General</u>					
The following cupboard fittings have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc. All joinery must be completed after the Architect's approval of samples					
NOTE : All as per Architect's drawings					
<u>Cupboards</u>					
<u>Supawood, white Melamine veneer both sides (all exposed surfaces) for tops sides and backs</u>					
19	Floor cupboard under granite tops (tops elsewhere) 750mm wide x 550mm deep x 850mm high with three shelves, shelves front edges with hardwood edge. 100mm High skirting of dark grey Melamine	No	7		
<u>Novaboard (Balsa Wood) veneer both sides for sides, tops and backs and Supawood white Melamine both sides for internal panels, drawers and shelves</u>					
20	Floor cupboard 2920mm long 850mm high x 600mm deep with 32mm Formica top, shelves, four drawers and two double doors, furniture, etc. 100mm High skirting. (Kitchen at Cleaners)	No	1		
21	Combination U-shaped floor cupboard 4879mm long overall under granite tops (tops elsewhere) 850mm high x 600mm deep with shelves, drawers and doors, furniture, etc. 100mm High skirting (Kitchen 3)	No	1		
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		Unit	Quantity	Rate	Amount
22	Combination U-shaped floor cupboard 6595mm long overall under granite tops (tops elsewhere) 850mm high x 600mm deep with shelves, drawers and doors, furniture, etc. 100mm High skirting (Kitchen 2)	No	1		
23	Combination L-shaped floor cupboard 3516mm long overall under granite tops (tops elsewhere) 850mm high x 600mm deep with shelves, drawers and doors, furniture, etc. 100mm High skirting. (Kitchen 1)	No	1		
24	Combination L-shaped floor cupboard 3716mm long overall under granite tops (tops elsewhere) 850mm high x 600mm deep with shelves, drawers and doors, furniture, etc. 100mm High skirting. (Kitchen at Lecture Room)	No	1		
25	Combination L-shaped floor cupboard and worktop. Floor cupboard 1800mm wide x 600mm deep x 768mm high of 16mm thick Melamine with two double doors and one shelf. worktop 2400mm long x 900mm wide x 768mm high with floating shelf at higher level. Worktop top Granite (elsewhere) and one 75mm diameter brushed stainless steel leg. Floating higher shelf with Melamine frame, glass infill panel (glass elsewhere) and 350 mm wide granite top (elsewhere). One side of work top covered with 16mm Melamine with brush aluminium veneer one side. (Reception at station commander)	No	1		
<u>Shelving</u>					
26	Laminated hardwood 20mm Thick x 540mm wide shelve with one rounded edge	m	6		
27	25 x 50mm Wrought hardwood wall band plugged	m	165		
28	22 x 450mm Supawood shelf with rounded edge brass screwed to brackets	No	187		
29	22 x 350mm Supawood shelf with white Melamine both sides with rounded edge brass screwed to brackets	No	73		
30	22 x 450mm Supawood shelf with white Melamine both sides with rounded edge brass screwed to brackets	No	9		
31	Extra on Supawood shelving 350mm wide for mitre cut	No	30		
32	Extra on Supawood shelving 450mm wide for mitre cut	No	90		
<u>Rifle Racks</u>					
33	Wrought hardwood rifle rack 2000mm wide with butt support and barrel support rails with rebated holes for sixteen rifles, rubber linings, etc, fixed tilted to walls	No	2		
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		Unit	Quantity	Rate	Amount
34	Wrought hardwood pistol rack 934mm wide x 1354mm high, 104 x 19mm side rails, three shelves with 6mm dividers, rubber linings, etc, with 40 x 40 x 5mm framed angle section brackets fixed to walls	No	1		
	<u>Visitor's chairs</u>				
35	Chair of 50 x 400mm diameter hardwood seat with 15mm radius rounded edge and hollowed seat. 100mm Diameter x 3mm steel pipe base with 300mm diameter x 3mm steel top flange bolted to wood seat, 300 x 300 x 6mm bottom flange four times bolted to concrete with 12mm expansion bolts	No	8		
	<u>Benches</u>				
36	Two 150 x 70mm and one 45 x 70mm Wrought Meranti slats to form 400mm wide bench with 27mm gaps in-between with mitred top edges. Brass screwed to frame (frame elsewhere)	m	10		
37	32mm Wrought Meranti bench 290mm wide with rounded edge brass screwed to frame (frame elsewhere)	m	1		
38	32mm Wrought Meranti bench 400mm wide with rounded edge brass screwed to frame (frame elsewhere)	m	1		
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					5m

Amount

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hm

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Unit	Quantity	Rate	Amount
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BILL NO. 9**CEILINGS PARTITIONS AND ACCESS FLOORING**

NOTE : For all TRADE NAMES and the use of alternative items, refer to Section 3: Specific Preliminaries item C3

SUPPLEMENTARY PREAMBLES**Descriptions:**

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 not exceeding 600mm centres, and where described as 'bolted' the bolts have been given elsewhere

NAILED UP CEILINGS**9.4mm 'Rhino' gypsum plasterboard with taped joints and with the whole surface skimmed with 'Rhinolite' plaster**

- | | | | | | |
|---|---|----------------|----|--|--|
| 1 | Ceilings including 38 x 38mm sawn softwood branderling at 350mm centres | m ² | 70 | | |
| 2 | Vertical downstand bulkhead 1080mm high x 588mm wide | m | 23 | | |
| 3 | Extra for mitred corner 1080mm high | No | 4 | | |
| 4 | 50mm Diameter hole for downlights (Provisional) | No | 28 | | |
| 5 | 15 x 15 x 8mm Shadowline (BP T 1508 HB) edge trim | m | 47 | | |

4mm 'Everite Nutec' fibre cement board with taped joints and with the whole surface skimmed with 'Rhinolite' plaster

- | | | | | | |
|---|---|----------------|----|--|--|
| 6 | Ceilings including 38 x 38mm sawn softwood branderling at 350mm centres | m ² | 65 | | |
|---|---|----------------|----|--|--|

4mm 'Everite Nutec' fibre-cement boards with H type joining strips

- | | | | | | |
|---|---|----------------|----|--|--|
| 7 | Ceilings including 38 x 38mm sawn softwood branderling at 450mm centres | m ² | 84 | | |
|---|---|----------------|----|--|--|

Carried to Collection

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Ceilings Partitions And Access Flooring

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Lm

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