

**5: SAMPLES, SHOP DRAWINGS AND
MANUFACTURERS' INSTRUCTIONS**

67 ***Samples of materials***

Fixed: _____ Value: _____
Time: _____

Item

68 ***Workmanship samples***

Fixed: _____ Value: _____
Time: _____

Item

69 ***Shop drawings***

Fixed: _____ Value: _____
Time: _____

Item

70 ***Compliance with manufacturer's instructions***

Fixed: _____ Value: _____
Time: _____

Item

6: TEMPORARY WORKS AND PLANT

71 ***Deposits and fees***

Fixed: _____ Value: _____
Time: _____

Item

72 ***Enclosure of the works***

Fixed: _____ Value: _____
Time: _____

Item

73 ***Advertising***

Fixed: _____ Value: _____
Time: _____

Item

74 ***Plant, equipment, sheds and offices***

Fixed: _____ Value: _____
Time: _____

Item

75 ***Main notice board***

Fixed: _____ Value: _____
Time: _____

Item

Carried to Collection

R

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X MB

76 **Subcontractors' notice board**

Fixed: _____ Value: _____
Time: _____

Item

7: TEMPORARY SERVICES

77 **Location**

Fixed: _____ Value: _____
Time: _____

Item

78 **Water**

Fixed: _____ Value: _____
Time: _____

Item

79 **Electricity**

Fixed: _____ Value: _____
Time: _____

Item

80 **Telecommunication facilities**

Fixed: _____ Value: _____
Time: _____

Item

81 **Ablution facilities**

Fixed: _____ Value: _____
Time: _____

Item

8: PRIME COST AMOUNTS

82 **Responsibility for prime cost amounts**

Fixed: _____ Value: _____
Time: _____

Item

9: ATTENDANCE ON N/S SUBCONTRACTORS

83 **General attendance**

Fixed: _____ Value: _____
Time: _____

Item

84 **Special attendance**

Fixed: _____ Value: _____
Time: _____

Item

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X 2 MB

85 **Commissioning - fuel, water and electricity**

Fixed: _____ Value: _____
Time: _____

Item

10: FINANCIAL ASPECTS

86 **Statutory taxes, duties and levies**

Fixed: _____ Value: _____
Time: _____

Item

87 **Payment for preliminaries**

Fixed: _____ Value: _____
Time: _____

Item

88 **Adjustment of preliminaries**

Clauses B10.3.1 and B10.3.2 are amended by replacing
"within fifteen (15) **working days** of taking possession
of the **site**" with "when submitting his priced **bills of**
quantities / lump sum document"

Fixed: _____ Value: _____
Time: _____

Item

89 **Payment certificate cash flow**

Fixed: _____ Value: _____
Time: _____

Item

11: GENERAL

90 **Protection of the works**

Fixed: _____ Value: _____
Time: _____

Item

91 **Protection / isolation of existing / sectionally
occupied works**

Fixed: _____ Value: _____
Time: _____

Item

92 **Security of the works**

Fixed: _____ Value: _____
Time: _____

Item

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93 **Notice before covering work**

Fixed: _____ Value: _____
Time: _____

Item

94 **Disturbance**

Fixed: _____ Value: _____
Time: _____

Item

95 **Environmental disturbance**

Fixed: _____ Value: _____
Time: _____

Item

96 **Works cleaning and clearing**

Fixed: _____ Value: _____
Time: _____

Item

97 **Vermin**

Fixed: _____ Value: _____
Time: _____

Item

98 **Overhand work**

Fixed: _____ Value: _____
Time: _____

Item

99 **Instruction manuals and guarantees**

Fixed: _____ Value: _____
Time: _____

Item

100 **As built information**

Fixed: _____ Value: _____
Time: _____

Item

101 **Tenant installations**

Fixed: _____ Value: _____
Time: _____

Item

Carried to Collection

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X 107

10.55

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12: SCHEDULE OF VARIABLES

102

Schedule of Variables

Fixed: _____ Value: _____
Time: _____

Item

This **schedule** contains all variables referred to in this document and is divided into pretender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these Preliminaries.

Spaces requiring information must be filled in, shown as "not applicable" or deleted and not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross-referenced to the applicable clause of the **schedule**. Key cross reference clauses are italicised in [] brackets

12.1 PRE TENDER INFORMATION

12.1.1 Provisional Bills of Quantities

[2.2] The quantities are provisional

NO

12.1.2 Availability of construction documentation

[2.3] Construction of documentation is complete

YES

12.1.3 Interest of agents

[2.4] Details:

12.1.4 Defined works area

[3.1] Details:

12.1.5 Geotechnical investigation

[3.2] Details:

12.1.6 Existing premises occupied

[3.4] Specific requirements:

12.1.7 Previous work - dimensional accuracy

[3.5] Details:

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12.1.8 Previous work - defects

[3.6] Details:

12.1.9 Services - known

[3.7] Details:

12.1.10 Protection of trees

[3.9] Specific requirements:

12.1.11 Inspection of adjoining properties

[3.11] Specific requirements:

12.1.12 Enclosure of the works

[6.2] Specific requirements:

12.1.13 Offices

[6.4.3] Specific requirements:

The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times.

12.1.14 Main notice board

[6.5] Specific requirements:

The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m as type Drawing GEN 063, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted sans serif lettering.

Carried to Collection

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12.1.15 **Subcontractors' notice board**

[6.6] A notice board is required

NO

Specific requirements:

12.1.16 **Water**

[7.2] Option A (by contractor)

YES

Option B (by employer - free of charge)

NO

Option C (by employer - metered)

NO

12.1.17 **Electricity**

[7.3] Option A (by contractor)

YES

Option B (by employer - free of charge)

NO

Option C (by employer - metered)

NO

12.1.18 **Telecommunications**

[7.4] Telephone

YES

Facsimile

YES

E-mail

YES

12.1.19 **Ablution facilities**

[7.5] Option A (by contractor)

YES

Option B (by employer)

NO

12.1.20 **Protection of existing/sectionally occupied works**

[11.2] Protection is required

YES

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X

N.S.S.

110

myB

12.1.21 Special attendance

[9.2] **Subcontractor (1) details:**

Subcontractor (2) details:

Subcontractor (3) details:

Subcontractor (4) details:

12.1.22 Protection of works

[11.1] **Specific requirements:**

12.1.23 Disturbance

[11.5] **Specific requirements:**

The contractor shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent

12.1.24 Environmental disturbance

[11.6] **Specific requirements:**

12.2 POST-TENDER INFORMATION

12.2.1 Payment of preliminaries

[10.2] **Option A (prorated)**

YES/NO

Option B (calculates)

YES/NO

12.2.2 Adjustment of preliminaries

[10.3] **Option A (three categories)**

YES/NO

Option B (detailed breakdown)

YES/NO

12.2.3 Additional agreed preliminaries items

Details:

Carried to Collection

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X
2

12.55 III

12.55

SECTION C: SPECIFIC PRELIMINARIES

Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item

103 **C1 CONTRACT DRAWINGS**

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 shall, before submitting his tender, obtain clarification in writing from the **principal agent**

Fixed: _____ Value: _____
Time: _____

Item

104 **C2 GENERAL PREAMBLES**

The document "Specification of Materials and Methods to be used (PW371)" is obtainable on the Department's website <<http://www.publicworks.gov.za/>> under "Consultants Guidelines", 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: _____
Time: _____

Item

105 **C3 TRADE NAMES**

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 any other product of equal quality may be used subject to the written approval of the **principal agent** being obtained prior to the closing date for submission of tenders

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

Fixed: _____ Value: _____
Time: _____

Item

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N.S. 112

N.S.

106 C4 IMPORTED MATERIALS AND EQUIPMENT

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 DPW-23(EC) 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: _____
Time: _____

Item

107 C5 VIEWING THE SITE IN SECURITY AREAS

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

Fixed: _____ Value: _____
Time: _____

Item

108 C6 COMMENCEMENT OF WORKS IN SECURITY AREAS

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: _____
Time: _____

Item

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R

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109 C7 ENTRANCE PERMITS TO SECURITY AREAS

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: _____
Time: _____

Item

110 C8 SECURITY CHECK OF PERSONNEL

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: _____
Time: _____

Item

111 C9 PROHIBITION ON TAKING OF PHOTOGRAPHS

In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister

The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959

Fixed: _____ Value: _____
Time: _____

Item

Carried to Collection

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10.85 114

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C10 HIV/AIDS AWARENESS

It is required of the **contractor** to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the Bills of Quantities. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained

The **contractor** must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the **principal agent**, notwithstanding the provisions of Clause A 31.0 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

112 **C10.1 AWARENESS CHAMPION**

Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification

Fixed: _____ Value: _____
Time: _____

Item

Carried to Collection

R

Section No. 1
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Preliminaries



-37-

10.95

115

MLA

113 **C10.2 AWARENESS WORKSHOPS**

Selection and appointment of a competent Service Provider approved by the **principal agent**, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification

Fixed: _____ Value: _____
Time: _____

Item

114 **C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.**

Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the **construction period**, all in accordance with the HIV/AIDS Specification

Fixed: _____ Value: _____
Time: _____

Item

115 **C10.4 ACCESS TO CONDOMS**

Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the **construction period**, all in accordance with the HIV/AIDS Specification

Fixed: _____ Value: _____
Time: _____

Item

116 **C10.5 MONITORING**

Monitoring HIV/AIDS awareness of workers, providing the **principal agent** with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the **construction period** and close out, all in accordance with the HIV/AIDS Specification

Fixed: _____ Value: _____
Time: _____

Item

Carried to Collection

R

Section No. 1
Bill No. 1
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117 **C11 : OCCUPATIONAL HEALTH AND SAFETY ACT**

It is required of the Contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the Bills of Quantities. Provision for pricing thereof is made under items C9.1 to C9.9 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained

The Contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health & Safety specification is compulsory. In the event of partial or total non-compliance, the Principal Agent, notwithstanding the provisions of Clause A 31 of "Section 1: Preliminaries (Part 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

All references hereunder are to Regulations of the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993),

The Contractor shall, in submitting his bid, demonstrate that he has made provision for the cost of compliance with the specified health and safety requirements, the Act and Construction Regulations

Fixed: _____ Value: _____
Time: _____

Item

118 **C11.1 NOTIFICATION OF CONSTRUCTION WORK (Regulation 3)**

The Contractor shall, before commencing work, notify the Department of Labour of the intended construction work in terms of Regulation 3. The Contractor shall submit the notification in writing, on the appropriate form, prior to commencement of work

Fixed: _____ Value: _____
Time: _____

Item

Carried to Collection

R

Section No. 1
Bill No. 1
Preliminaries

X

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117

117

119 **C11.2 HEALTH AND SAFETY PLAN (Regulation 5)**

The Contractor shall provide and demonstrate to the Principal Agent a suitable and sufficiently documented health and safety plan based on the Act, Construction Regulations and the health and safety specification, which shall be applied from the date of commencement of and for the duration of the construction work. The Contractor shall ensure that a copy of the health and safety plan is available on request to an employee, inspector, sub contractor or principal agent all in terms of Regulation 5

Fixed: _____ Value: _____
Time: _____

Item

120 **C11.3 REGISTRATION WITH THE COMPENSATION FUND(Regulation 5.3)**

The Contractor shall provide proof of his registration and good standing with the Compensation Fund or a licensed compensation insurer prior to the commencement of work

Fixed: _____ Value: _____
Time: _____

Item

121 **C11.4 HEALTH AND SAFETY FILE (Regulation 4.2)**

The Contractor shall ensure that a health and safety file, which shall include all documentation required in terms of the health and safety specification, the Act and the Construction Regulations, is opened and kept on site and made available to the Principal Agent or Inspector upon request. Upon completion of the works, the Contractor shall hand over a consolidated health and safety file to the principal agent

Fixed: _____ Value: _____
Time: _____

Item

Carried to Collection

R

Section No. 1
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Preliminaries

125

118

125

122 **C11.5 SUPERVISION OF CONSTRUCTION WORK
(SAFETY OFFICER) (Regulation 6)**

The Contractor shall appoint a full-time competent employee in writing as the construction supervisor, with the duty of supervising the construction work. The Contractor shall appoint a full-time or part-time construction safety officer in writing to assist in the control of all safety related aspects on the site. Such appointments are required to ensure that at all times the requirements of the Act and Construction Regulations are adhered to. Refer to Regulation 6

Fixed: _____ Value: _____
Time: _____

Item

123 **C11.6 RISK ASSESSMENT AND SAFETY
POLICY(Regulation 7)**

Before commencing work the Contractor shall cause a risk assessment to be performed by a competent person appointed in writing and the risk assessment shall form part of the health and safety plan. A copy of the risk assessment shall be available on site at all times for inspection. The Contractor shall at all time carry out the works in a manner to avoid the risk of bodily harm to persons or risk of damage to any property. He shall take all precautions regarding training of employees in any hazards and the related work procedures, health and safety induction training of employees, visitors or any other persons entering the site and provide personal protective equipment to all employees and visitors to site which are necessary and adequate to eliminate any conditions which contribute to the risk of injury to persons or damage to property in terms of Regulation 7

Fixed: _____ Value: _____
Time: _____

Item

124 **C11.7 SIGNIFICANT HAZARDA IDENTIFICATION
RISK ASSESSMENT PREPARED BY THE DESIGN
CONSULTANTS**

The Contractor shall allow for additional financial provision, if any, to take the necessary precautions regarding the significant hazards and risks identified and assessed by the design consultants

Fixed: _____ Value: _____
Time: _____

Item

Carried to Collection

R

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119

1214

125 **C11.8 ADDITIONAL FINANCIAL PROVISION**

The Contractor shall allow for additional financial provision, if any, to comply with the requirements of the Occupational Health and Safety Act (Act No 85 of 1993) and the Construction Regulations issued there under which have not been specifically elsewhere provided

Item

126 **C11.9 FALL PROTECTION PLAN (Regulation 8)**

The contractor shall, before commencing any construction work submit a fall protection plan identified all steps to be taken in order to ensure the continued adherence to the fall protection plan and shall include a risk assessment of all work carried out from an relevant position. The fall protection plan shall form part of the health and safety plan and file

Fixed: _____ Value: _____
Time: _____

Item

127 **C11.10 PHYSICAL AND PSYCHOLOGICAL FITNESS (Regulation 8.2(b))**

The contractor and sub-contractors shall before commencing any construction work submit proof of his employees that shall carried out work from an elevated position their physical and psychological fitness. And shall be recorded in the health and safety file

Fixed: _____ Value: _____
Time: _____

Item

128 **C11.11 CONSTRUCTION VEHICLES AND MOBILE PLANT**

The contractor and sub-contractors shall ensure that all operated workers received training and been certified competent to operate such vehicle, and are physical and psychological fit to operate such construction vehicles and mobile plants. And shall be recorded in the health and safety file

Fixed: _____ Value: _____
Time: _____

Item

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10.55.120 MB

129 **C11.12 TRAINING**

The contractor and sub-contractors shall, before commencing any construction work, submit his training program of all his employees. This program shall form part of the health and safety plan

Fixed: _____ Value: _____
Time: _____

Item

130 **C11.13 DEMOLITION WORK(Regulation 5)**

The contractor shall, before any demolition work shall carried out, submit all method of demolition to be used. This method shall form part of the health and safety plan and file.

Fixed: _____ Value: _____
Time: _____

Item

131 **C11.14 REMOVAL AND DISPOSAL OF ASBESTOS MATERIAL(Asbestos Regulation)**

The principal contractor shall appoint a contractor that is registered with the Department of Labour as an AIA. The contractor must allow for:
NOTIFICATION OF ASBESTOS PROCESSING
PERSONAL PROTECTIVE EQUIPMENT
PACKAGING AND TRANSPORT AND STORAGE TO DISPOSAL SITE
DEMOLITION WORK OF SHEETS
LABELLING AND INFORMATION

Fixed: _____ Value: _____
Time: _____

Item

SUMMARY OF CATEGORIES

Category: Fixed R

Category: Value R

Category: Time R

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105 121

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10.55

124

MR

125 MB

FILLING, ETC.

Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Modified AASHTO density

- 7 Backfilling to trenches, holes, etc.

m3 722

Earth filling supplied by the contractor compacted to 90% Modified AASHTO density

- 8 Under floors, steps, pavings, etc.

m3 266

Compaction of surfaces

- 9 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 93% Mod AASHTO density

m2 1 852

SOIL POISONING

Note: Termite ground poisoning certificate to be provided

Soil insecticide

- 10 Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming

m2 1 631

- 11 To bottoms and sides of trenches, etc.

m2 1 354

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Earthworks

1055 126 MB

Section No. 2

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Earthworks

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Earthworks

X

U.S.S

127

MB

1285 128

MB

<u>30MPa/19mm concrete poured around reinforcement:</u>		
9	Slab	m3 86
10	Beams	m3 11
11	Columns	m3 4
<u>TEST BLOCKS</u>		
12	Making and testing set of three of 150 x 150 x 150mm concrete strength test cubes (Provisional)	Sets 139
<u>CONCRETE SUNDRIES</u>		
<u>Finishing surfaces of concrete smooth with a wood float</u>		
13	Surface beds, slabs, etc.	m2 459
<u>Finishing surfaces of concrete smooth with a power float</u>		
14	Surface beds, slabs, etc.	m2 1 583
<u>MOVEMENT JOINTS, ETC.</u>		
<u>Concrete movement joint with 10mm polystyrene between vertical brick and concrete surfaces</u>		
15	Concrete movement joint	m 317
<u>Slip joints</u>		
16	Two layers 3 mm thick tempered masonite not exceeding 300 mm wide fixed horizontally in position between brick and concrete surfaces	m 1 220
<u>Saw cut joints</u>		
17	6mm Wide x 30mm deep saw cut in top of concrete.	m 158

Carried to Collection

R

Section No. 2
Bill No. 2
Concrete, Formwork & Reinforcement

FORMWORK

JBCC Work Group No. 111

GENERAL FORMWORK

General formwork

18	Edges, risers, ends and reveals not exceeding 300mm high or wide "LI"	m	288
----	---	---	-----

Rough formwork to soffits

19	Slab propped up not exceeding 3.5m "LI"	m2	411
----	---	----	-----

Smooth formwork to sides and soffits of

20	Beams not exceeding 3.5m high "LI"	m2	115
----	------------------------------------	----	-----

21	Columns not exceeding 3.5m high "LI"	m2	78
----	--------------------------------------	----	----

REINFORCEMENT (Provisional)

JBCC Work Group No. 114

Fabric reinforcement

22	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	1 565
----	--	----	-------

23	Type 617 fabric reinforcement in concrete surface beds, slabs, etc	m2	72
----	--	----	----

24	Type 311 fabric reinforcement in concrete surface beds, slabs, etc	m2	66
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Mild steel reinforcement

High tensile steel reinforcement

25	8mm-25mm Diameter rods	t	121.40
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PRECAST CONCRETE

Carried to Collection

R

Section No. 2
Bill No. 2
Concrete, Formwork & Reinforcement

1255

130

MP

The following in precast concrete components for prefabricated 25MPa concrete, finished smooth from the mold and lightly reinforced with 8mm mild steel bars.

- 26 "Old world concrete" or other approved 475x475x60mm high concrete pier coping, fixed to architect specification (type: mini pyramid caps or constantia)

No

71

Carried to Collection

R

Section No. 2
Bill No. 2
Concrete, Formwork & Reinforcement

1255

131

mp

Section No. 2

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Concrete, Formwork & Reinforcement

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Section No. 2

Bill No. 2

Concrete, Formwork & Reinforcement

X

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1255

132

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Carried to Collection

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Bill No. 3
Masonry

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134

MB

FACE BRICKWORK

Corobrik Satin Topaz FBX (or other approved)
pointed with recessed or flush plastered horizontal
and vertical joints

12	Extra over brickwork for face brickwork	m2	4 892
13	Brick-on-edge header course coping to top of one brickwall, built fair and pointed on top and both edges	m	790
14	roller course coping set slightly projecting to top of one brickwall, built fair and pointed on top and both edges	m	239

Corobrik Satin Roan FBX (or other approved) in
stretcher bond with 6mm deep recessed joints

15	Extra over brickwork for face brickwork	m2	668
16	Brick-on-edge header course coping to top of one brickwall, built fair and pointed on top and both edges	m	206

Corobrik Black Travertine FBX (or other approved)
pointed with recessed horizontal and vertical joints.
with black tinted mortar

17	Extra over brickwork for face brickwork	m2	211
18	Brick-on-edge header course coping to top of one brickwall, built fair and pointed on top and both edges	m	45

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Masonry

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MA

BRICKWORK SUNDRIES

Sundries:

19	Splayed mortar fillet one course high in 50mm cavity.	m	1
20	Closing 50mm cavity of hollow wall half brick wide vertically at reveal or ends.	m	22
21	Closing 50mm cavity of hollow wall with one course of brickwork horizontally under cill or lintol.	m	2
22	Closing 50mm cavity of hollow wall horizontally with two courses of brickwork at top of wall.	m	1

Air bricks, etc. (Provisional)

23	230 x 150mm Clay vermin proof air brick	No	8
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Joint forming material in movement joints

24	12mm Bitumen impregnated fibre board built in vertically between brick skins (Provisional)	m2	202
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Brickwork reinforcement

25	75mm Wide reinforcement built in horizontally	m	6 188
26	150mm Wide reinforcement built in horizontally	m	15 815
27	230mm Wide reinforcement built in horizontally	m	227

Prestressed lintels

28	100 x 70mm Lintels in lengths not exceeding 3m	m	612
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Turning pieces

29	220mm Wide turning piece to lintels, etc	m	195
30	330mm Wide turning piece to lintels, etc	m	12

Galvanised hoop iron cramps, ties, etc

31	32 x 1,6mm Roof tie 1600mm long with one end fixed to timber and other end built into brickwork	No	696
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SILLS, ETC

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Masonry

R

	<u>Fibre cement sills including galvanised lugs and fixing to brickwork to match existing</u>		
32	Internal sill set flat and slightly projecting	m	131
	<u>Brick-on-edge sill set sloping and slightly projecting including galvanised lugs and fixing to brickwork to match wall finish surround</u>		
33	External sill set sloping	m	131

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Masonry

XZ

12.5 137

ms

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Masonry

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Masonry

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MB

SECTION NUMBER 2

BILL NUMBER 4

WATERPROOFING

JBCC Work Group No. 120

SUPPLEMENTARY PREAMBLES

For Preambles see "PW371 - Specification of Materials and Methods to be used"

DAMPPROOFING OF WALLS AND FLOORS

One layer of 375 micron embossed polyethylene damp proof course

- 1 In walls, below sills, etc.

One layer of 250 micron polyethylene waterproof membrane sealed at laps with pressure sensitive tape

- 2 Under surface beds

"ABE Duraflex" and membrane or other approved applied as per manufacturers specifications with and including preparatory work to surfaces priming etc.

- 3 On walls and floors.

"Flowcrete" or other approved applied as per manufacturers specifications with and including preparatory work to surfaces priming etc.

- 4 6-9mm heavy-duty Polyurethane resin screed system as Flowcrete Flowfresh RT (see specification of flowcrete - system 1).

- 5 3-4mm antimicrobial cementitious Polyurethane floor system system as Flowcrete Flowfresh MF (see specification of flowcrete - system 3).

Carried to Collection

Section No. 2
Bill No. 4
Waterproofing

- 6 Polyurethane sealant as Flowcrete Flowcoat UV (see specification of flowcrete - system 4).

m2 407

Kaytec PA Findrian or similar approved

- 7 50mm Upvc weep hole through wall not exceeding 400mm long, with and including Geofabric membrane and rubble filling on soil side of wall

No 567

SHEET STEEL FLASHINGS, LININGS, COPINGS, ETC

0.8mm Z275 galvanised steel with "Chromadek" finish one side and standard backing coat

FLASHINGS

- 8 "Sealoflex G2" cover flashing or other approved, sealed to wall and over roofing, etc., in strict accordance with the manufacturer's instructions, or other approved

m2 353

Carried to Collection

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Section No. 2
Bill No. 4
Waterproofing

X

N.S.S. 140

NPB

WATERPROOFING TO ROOFS

Derbigum roofing to low-slope (flat) screeded concrete roofs or other approved

- 9 Two layer SP4 waterproofing membrane, with 75mm side and 100mm end laps, sealed to bitumen primed surface to falls and cross falls by 'torchfusion' finished with two coats bitumenous aluminum paint. (Waterproofing to be installed by an Approved Contractor under a ten year guarantee)

m2 411

- 10 Stone pitching to concrete roofs as per architect specification

m2 411

Derbigum to retaining walls

- 11 One layer SP4 waterproofing membrane, with 75mm side and 100mm end laps, sealed to bitumen primed surface to vertical surface by 'torchfusion' finished with two coats bitumenous aluminum paint. (Waterproofing to be installed by an Approved Contractor under a ten year guarantee)

m2 306

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R

Section No. 2
Bill No. 4
Waterproofing

U.S.S.

141

MB

Section No. 2

Bill No. 4

Waterproofing

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Section No. 2

Bill No. 4

Waterproofing

X5

N.S. 142 MR

	Unit	Quantity	Rate	Amount
<u>SECTION NUMBER 2</u>				
<u>BILL NUMBER 5</u>				
<u>ROOF COVERINGS, ETC.</u>				
JBCC Work Group No. 122				
<u>SUPPLEMENTARY PREAMBLES</u>				
For Preambles see "PW371 - Specification of Materials and Methods to be used"				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<u>0.58 Novatexi AZ150 Colourplus "Slate", roof sheeting on timber trusses and purlins by specialist and Str. Eng. approval, at 26° pitch, or as indicated on drawing. Flashing, ridges etc. in 0.8mm sheeting, with finish to match roof sheet, all in accordance with the manufacturer's specifications.</u>				
1	Roof covering with pitch not exceeding 25 degrees "LI"	m2	267	
2	Roof covering with pitch exceeding 25 degrees "LI"	m2	2 508	
3	Ridge capping	m	226	
4	Eave flashing	m	647	
5	Head wall flashing 375mm girth	m	36	
6	Cover flashing	m	44	
7	Hip capping	m	139	
8	Side wall flashing 460mm girth	m	13	
9	Valley gutter lining, three times bent and dressed into valleys and over battens (elsewhere) with minimum 300mm end laps.	m2	71	
<u>ROOF INSULATION</u>				
Carried to Collection				R
Section No. 2				
Bill No. 5				
Roofcovering				

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Section No. 2
Bill No. 5
Roofcovering

F

1155 143 mps

Glasswool insulation with aluminium foil underside
installed under roof sheeting as per architect
specification

- 10 135mm "Isover factorylite" (R-value 3.46) Insulation laid
taut over purlins (at maximum 1000mm centres) and
fixed concurrent with roof covering, including galvanised
steel straining wires "LI"

m2

1 975

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Section No. 2
Bill No. 5
Roofcovering

U.S.S.

144

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Bill No. 5

Roofcovering

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Bill No. 5
Roofcovering

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145

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Section No. 2
Bill No. 6
Carpentry and Joinery

N.S. 146 *ms*

GENERAL

TRUSS LOADING

The trusses have to be designed for a live load of 0,50kN/m²

The dead load of the trusses shall be to accommodate concrete roof tiles on 38 mm x 38 mm SA Pine battens, a gypsum and / or fibre cement board ceiling nailed on 38 x 38 mm brandering at 450 mm centres in both directions and 75 mm insulation wool

TRUSS DESIGN

All trusses shall be designed by a Registered Professional Engineer (in accordance with the SABS Code of Practices for the Design of Timber Structures) including CCA pre treatment to all truss members with a certificate to proof of treatment

TRUSS PITCH

The truss pitch shall be as described in the Bills of Quantities for each respective truss type

**PREFABRICATED TIMBER ROOF TRUSSES
(PROVISIONAL)**

The following in plate nailed timber roof trusses with a pitch not exceeding 27,5°, from an approved supplier, delivered to site, hoisted into position, fixed and braced on timber wall plates.

- 1 Provide the PC amount of Six Hundred Thousand Rand (R600'000.00) for supply and installation of Roof trusses complete

Item

600 000.00

- 2 Allow for profit and attendance

Item

ROOF CONSTRUCTION

Sawn South African Softwood

- 3 38 x 114mm Wall plates

m

580

- 4 50 x 50mm Purlins

m

2 370

Carried to Collection

R

Section No. 2
Bill No. 6
Carpentry and Joinery

5 50 x 75mm Purlins

m 2 370

Carried to Collection

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Section No. 2
Bill No. 6
Carpentry and Joinery

1255 148 MB

<u>Sundries</u>			
6	Teco two way hurricane clips	No	620
7	Two coats ABE Carbolineum on roof timbers	m2	1 740
<u>EAVES, VERGES, ETC.</u>			
<u>Pressed fibre cement</u>			
8	15 x 225mm Nutec fibre cement fascia board screwed to splayed purlin and soffit purlin with galvanized grabber screws at 600mm centres	m	593
9	15 x 225mm Angle section barge boards including aluminium H-profile jointing strips.	m	54
<u>SKIRTINGS</u>			
<u>Wrought hardwood</u>			
10	19 x 75mm Moulded meranti skirting with quarter round	m	180
<u>CORNICE, ETC.</u>			
<u>Wrought hardwood</u>			
11	24 X 50 mm Hardwood cornice (Provisional)	m	1 111

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Section No. 2
Bill No. 6
Carpentry and Joinery

U.S.S. 149 m/b

DOORS

"Swartland" Semi-solid core door with four concealed edges. Pre-painted by manufacturer with White Coat both sides or other approved

12	40mm Thick internal door size 622 x 2032mm high	No	2
13	40mm Thick internal door size 762 x 2032mm high	No	12
14	40mm Thick internal door size 813 x 2032mm high	No	10
15	40mm Thick internal overall door size 1511 x 2032mm high, double door	No	2

"Swartland" Framed ledged and brace hardwood door. Pre-Varnished by manufacturer both sides or other approved

16	40mm Thick internal door size 650 x 1000mm high	No	1
17	40mm Thick internal door size 813 x 2032mm high	No	16
18	40mm Thick internal door size 1100 x 2032mm high	No	1

"Swartland" solid core door with four concealed edges. Pre-coated with high pressure laminate by manufacturer both sides or other approved as specified by architect

19	40mm Thick door size 813 x 2032mm high	No	45
20	40mm Thick door size 900 x 2130mm high	No	2

Fire rated doors

21	50mm Thick door size 813 x 2032mm high. Class B fire rated solid door, 2 hour fire rated, as per architect specification	No	1
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JOINERY FITTINGS

THE FOLLOWING IN WORKTOPS, ETC.

Carried to Collection

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Bill No. 6
Carpentry and Joinery

R

Worktop of 32mm thick Rustenburg Granite stone worktops

22	L-Shaped Worktop 750mm wide with bevelled edges, fixed to wall with suitably sized brackets with matching fascia to detail (See detail at the back of Bill of Quantities Drawing 695-03-429).	m	10
23	Worktop 850mm wide with bevelled edges, fixed to wall with suitably sized brackets with matching fascia to detail (See detail at the back of Bill of Quantities Drawing 695-03-442).	m	7
24	Worktop 900mm wide with bevelled edges, fixed to wall with suitably sized brackets with matching fascia to detail (See detail at the back of Bill of Quantities Drawing 695-03-442).	m	4
25	Worktop 630mm wide with bevelled edges, fixed to wall with suitably sized brackets with matching fascia to detail including 80mm grommets (See detail at the back of Bill of Quantities Drawing 695-03-442).	m	1
26	Worktop 600mm wide with bevelled edges, fixed to wall with suitably sized brackets to detail including single bowl sink cutout (See detail at the back of Bill of Quantities Drawing 695-03-443).	m	2
27	L-Shaped Worktop 600mm wide with bevelled edges, fixed to wall with suitably sized brackets and single bowl sink cut-out to detail (See detail at the back of Bill of Quantities Drawing 695-03-443).	m	1
28	L-Shaped Worktop 600mm wide with bevelled edges, fixed to wall with suitably sized brackets and double bowl sink cut-out to detail (See detail at the back of Bill of Quantities Drawing 695-03-443).	m	7
29	U-Shaped Worktop 600mm wide with bevelled edges, fixed to wall with suitably sized brackets and double bowl sink cut-out to detail (See detail at the back of Bill of Quantities Drawing 695-03-C400).	m	5
30	4500mm long Worktop 600mm wide with and including widening to 800mm wide for 1100mm with bevelled edges, fixed to wall with suitably sized brackets to detail including single bowl sink cut out and stainless steel leg (See detail at the back of Bill of Quantities Drawing 695-03-D400).	No	2

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Section No. 2
Bill No. 6
Carpentry and Joinery

R

**THE FOLLOWING IN COUNTER, WORKSTATION,
ETC.**

**Prefabricated Factory Finished Cupboards as per
the Architect's specifications**

The following cupboard fittings have been measured as complete units, i.e. the components of the units have not been separately measured. The descriptions, therefor, of such units shall be deemed to include all components, assembling, housing, notching, gluing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic laminate of approved colour and pattern, glass, ironmongery, metalwork, etc

Notes:

All cupboards are to be from a reputable manufacturer of melamine cupboard units.
Cupboard doors to have laminated finish, with shelving and interior colour to architects specification.
Doors to be hung on adjustable concealed hinges.
Work tops to be of approved tops, sealed at edges and joints

FU = Floor mounted unit
WU = Wall mounted unit

31	Floor unit FU size 1093 x 550 x 1028mm high with two cupboards and Three shelves (See cupboard detail under Drawings 695-03-442)	No	1
32	Floor unit FU size 1088 x 550 x 1028mm high with two cupboards and Three shelves (See cupboard detail under Drawings 695-03-442)	No	1
33	Floor unit FU size 996 x 550 x 1028mm high with two cupboards and Three shelves (See cupboard detail under Drawings 695-03-442)	No	1
34	Floor unit FU size 993 x 550 x 1028mm high with two cupboards and Three shelves (See cupboard detail under Drawings 695-03-442)	No	3
35	Floor unit FU size 900 x 550 x 870mm high with two doors (See cupboard detail under Drawings 695-03-443)	No	1
36	Floor unit FU size 800 x 550 x 870mm high with two doors (See cupboard detail under Drawings 695-03-443)	No	3

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Section No. 2
Bill No. 6
Carpentry and Joinery

37	Floor unit FU size 350 x 550 x 870mm high with one door (See cupboard detail under Drawings 695-03-444)	No	1	
38	Floor unit FU size 450 x 550 x 870mm high with four drawers (See cupboard detail under Drawings 695-03-443)	No	1	
39	Floor unit FU size 400 x 550 x 870mm high with One drawer (See cupboard detail under Drawings 695-03-444)	No	2	
40	Floor unit FU size 1000 x 550 x 870mm high with two doors (See cupboard detail under Drawings 695-03-443)	No	1	
41	Floor unit F400 with One door (See cupboard detail under Drawings 695-03-C400)	No	1	
42	Floor unit FD400 Dustbin Unit (See cupboard detail under Drawings 695-03-C400)	No	2	
43	Floor unit F400/1 One drawer unit with One door (See cupboard detail under Drawings 695-03-D400)	No	4	
44	Floor unit F450/4 with Four drawers (See cupboard detail under Drawings 695-03-C400)	No	1	
45	Floor unit FTR300 300 tray unit (See cupboard detail under Drawings 695-03-C400)	No	1	
46	Floor unit FHO600 600 Hob/Oven unit (See cupboard detail under Drawings 695-03-C400)	No	1	
47	Floor unit FCIR 1000 1000 Corner reach in unit (See cupboard detail under Drawings 695-03-C400)	No	1	
48	Floor unit F 900 two door 900 unit (See cupboard detail under Drawings 695-03-C400)	No	3	
49	Floor unit FCU 900 1000 Corner reach in unit (See cupboard detail under Drawings 695-03-C400)	No	1	
50	Floor unit FU bedroom cupboard size 1300 x 550 x 2400mm high with three doors (See cupboard detail under Drawings 695-03-C400)	No	1	
51	Floor unit FU bedroom cupboard size 1600 x 550 x 2400mm high with three doors (See cupboard detail under Drawings 695-03-C400)	No	1	
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