

Item No		Quantity	Rate	Amount
<u>BILL NO. 1</u>				
<u>PRELIMINARIESNOTES</u>				
i)	The agreement is to be the JBCC Series 2000 Principal Building Agreement, Edition 4.1 May 2005, and other contract documents that together form the contract between the employer and contractor			
ii)	The preliminaries are to be the JBCC Series 2000 Code 2103 Preliminaries prepared by the Joint Building Contracts Committee, May 2005 edition 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")			
vi)	If Alternative A as set out in clause B10.3 hereinafter is to be used for the 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			

<u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u>				
Carried to Collection			R	
Section No. 1 Preliminaries Bill No. 1 Preliminaries				

<u>Definitions (A1)</u>				
1	Definitions and interpretation (clause 1)F:..... V:..... T:.....	Item		
<u>Objective and Preparation (A2 to A14)</u>				
2	Offer acceptance and performance (clause 2)F:..... V:..... T:.....	Item		
3	Documents (clause 3)F:..... V:..... T:.....	Item		
4	Design responsibility (clause 4)F:..... V:..... T:.....	Item		
5	Employer's agents (clause 5)F:..... V:..... T:.....	Item		
6	Site representative (clause 6)F:..... V:..... T:.....	Item		
7	Compliance with regulations (clause 7)F:..... V:..... T:.....	Item		
8	Works risk (clause 8)F:..... V:..... T:.....	Item		
9	Indemnities (clause 9)F:..... V:..... T:.....	Item		
10	Works insurances (clause 10) F:..... V:..... T:.....	Item		
11	Liability insurances (clause 11)F:..... V:..... T:.....	Item		
12	Effecting insurance (clause 12)F:..... V:..... T:.....	Item		
13	NO CLAUSE	N/A		
14	Security (clause 14)F:..... V:..... T:.....	Item		
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<u>Execution (A15-A23)</u>				
15	Preparation for and execution of the works (clause 15) fixed F:..... V:..... T:.....	Item		
16	Access to the works (clause 16)F:..... V:..... T:.....	Item		
17	Contract instructions (clause 17)F:..... V:..... T:.....	Item		
18	Setting out of the works (clause 18)F:..... V:..... T:.....	Item		
19	Assignment (clause 19)F:..... V:..... T:.....	Item		
20	Nominated subcontractors (clause 20)F:..... V:..... T:.....	Item		
21	Selected subcontractors (clause 21)F:..... V:..... T:.....	Item		
22	Employer's Direct Contractors (clause 22) F:..... V:..... T:.....	Item		
23	Contractor's Domestic Sub-Contractors (Clause 23) F:..... V:..... T:.....	Item		
<u>Completion (A24-A30)</u>				
24	Practical completion (clause 24)F:..... V:..... T:.....	Item		
25	Works completion (clause 25)F:..... V:..... T:.....	Item		
26	Final completion (clause 26)F:..... V:..... T:.....	Item		
27	Latent defects liability period (clause 27)F:..... V:..... T:.....	Item		
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28	Sectional completion (clause 28)F:..... V:..... T:.....	Item		
29	Revision of date of practical completion (clause 29)F:..... V:..... T:.....	Item		
30	Penalty for non-completion (clause 30)F:..... V:..... T:.....	Item		
<u>Payment (A31 - A35)</u>				
31	Interim payment to the contractor (clause 31)F:..... V:..... T:.....	Item		
32	Adjustment to the contract value (clause 32)F:..... V:..... T:.....	Item		
33	Recovery of expense and loss (clause 33)F:..... V:..... T:.....	Item		
34	Final account and final payment (clause 34)F:..... V:..... T:.....	Item		
35	Payment to other parties (clause 35) F:..... V:..... T:.....	Item		
<u>Cancellation (A36-A39)</u>				
36	Cancellation by employer - contractor's default (clause 36)F:..... V:..... T:.....	Item		
37	Cancellation by employer - loss and damage (clause 37)F:..... V:..... T:.....	Item		
38	Cancellation by contractor - employer's default (clause 38)F:..... V:..... T:.....	Item		
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39	Cancellation - cessation of the works (clause 39)F:..... V:..... T:.....	Item		
	<u>Dispute (A40)</u>			
40	Dispute Settlement (clause 40) F:..... V:..... T:.....	Item		
	<u>Substitute Provisions (A41)</u>			
41	State clauses (Clause 41) F:..... V:..... T:.....	Item		
	<u>THE SCHEDULE</u> Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder			
42	Pre-tender information (clause 42) F:..... V:..... T:.....	Item		
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42.1 CONTRACTING AND OTHER PARTIES

42.1.1

Employer:

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Postal address:

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Code

Tel

Fax

E-mail

Physical Address:

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42.1.2

Principal Agent:

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Postal address:

.....

.....

Code

Tel

Fax

E-mail

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42.1.3

Agents service: Architect

Agent (1)

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Postal address:

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Code

Tel

Fax

E-mail

42.1.4

Agents service: Quantity Surveyor

Agent (2)

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Postal address:

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Code

Tel

Fax

E-mail

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42.1.5
Agents service: Structural & Civil Engineer

Agent (3)

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Postal address:

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Code

Tel

Fax

E-mail

42.1.6
Agents service: Electrical Engineer

Agent (4)

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Postal address:

.....

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Code

Tel

Fax

E-mail

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42.1.7
Agents Service : Mechanical Engineer

Agent (5)

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Postal address:

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Code

Tel

Fax

E-mail

42.1.8
Agents Service :

Agent (6)

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Postal address:

.....

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Code

Tel

Fax

E-mail

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42.2 CONTRACT DETAILS

42.2.1 Works Description:

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42.2.2 Site Description:

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42.2.3 Work or installations by direct contractors:

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42.2.4 This agreement is for a government contract where there are specific options that are applicable to a **State** organ only

Yes/No

42.2.5 Date on which possession of the site is intended to be given:

?..... (Date)

42.2.6 Period for the commencement of the works after the contractor takes possession of the site

?..... working days

42.2.7 For the works **as a whole**. Intended date of practical completeion and the penalty per calendar day

?..... Date

?R..... Penalty Amount

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42.2.8 For the works in **sections**: ??Intended date of practical completion and the penalty per calender day

Section 1

..... *Date*

R..... *Penalty Amount*

Section 2

..... *Date*

R..... *Penalty Amount*

Section 3

..... *Date*

R..... *Penalty Amount*

Section 4

..... *Date*

R..... *Penalty Amount*

42.2.9 The **law** applicable to this **agreement** shall be that of

..... *(country)*

42.3 INSURANCES

42.3.1 Contract works insurance to be effected by:

Employer/Contractor:

For the Sum of R

With a deductible of of R

42.3.2 Supplementary insurance is required

Yes/No

42.3.3 Public liability insurance to be effected by:

Employer/Contractor:

For the Sum of R

With a deductible of of R

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42.4 DOCUMENTS

42.4.1 Waivers of **contractors lien** or right of continuing possession is required

Yes/No

42.4.2 Number of construction document copies to be supplied to the **contractor** free of charge:

..... *Number of*

42.4.3 **Bills of Quantities/Lump sum document** schedule of rates drawn up in accordance with:

(state system)

42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within **working days**

..... *Number of*

42.4.5 JBCC Engineering General Conditions are to be included in the **contract documents**:

Yes/No

42.4.6 The contract value is to be adjusted using escalation adjustment indices

Yes/No

Where **JBCC CPAP** is to be used

Base Month

42.4.7 Details of changes made to the provision of JBCC standard documentation:

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SECTION B: PRELIMINARIES

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<u>Definitions and interpretation (B1)</u>				
43	Definition and interpretation (B1.1 - B1.4.6) F:..... V:..... T:.....	Item		
<u>Documents (B2)</u>				
44	Checking of documents (B2.1)F:..... V:..... T:.....	Item		
45	Provisional bills of quantities (B2.2)F:..... V:..... T:.....	Item		
46	Availability of construction documentation (B2.3) F:..... V:..... T:.....	Item		
47	Interests of agents (B2.4)F:..... V:..... T:.....	Item		
48	Priced documents (B2.5)F:..... V:..... T:.....	Item		
49	Tender submission (B2.6)F:..... V:..... T:.....	Item		
<u>The site (B3)</u>				
50	Defined works area (B3.1)F:..... V:..... T:.....	Item		
51	Geotechnical investigation (B3.2)F:..... V:..... T:.....	Item		
52	Inspection of the site (B3.3)F:..... V:..... T:.....	Item		
53	Existing premises occupied (B3.4)F:..... V:..... T:.....	Item		
54	Previous work - dimensional accuracy (B3.5)F:..... V:..... T:.....	Item		
55	Previous work - defects (B3.6)F:..... V:..... T:.....	Item		
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**Hemfane Primary School
Asbestos Removal Programme**

56	Services - known (B3.7)F:..... V:..... T:.....	Item		
57	Services - unknown (B3.8)F:..... V:..... T:.....	Item		
58	Protection of trees etc (B3.9)F:..... V:..... T:.....	Item		
59	Articles of value (B3.10)F:..... V:..... T:.....	Item		
60	Inspection of adjoining properties etc (B3.11)F:..... V:..... T:.....	Item		
<u>Management of contract (B4)</u>				
61	Management of the works (B4.1)F:..... V:..... T:.....	Item		
62	Programme for the works (B4.2) F:..... V:..... T:.....	Item		
63	Progress meetings (B4.3)F:..... V:..... T:.....	Item		
64	Technical meetings (B4.4)F:..... V:..... T:.....	Item		
65	Labour and Plant records (B4.5) F:..... V:..... T:.....	Item		
<u>Samples, Shop Drawings and Manufacturer's Instructions (B5)</u>				
66	Samples of materials (B5.1)F:..... V:..... T:.....	Item		
67	Workmanship samples (B5.2)F:..... V:..... T:.....	Item		
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68	Shop drawings (B5.3) F:..... V:..... T:.....	Item		
69	Compliance with Manufacturer's Instructions (B5.4) F:..... V:..... T:.....	Item		
<u>Temporary works and plant (B6)</u>				
70	Deposits and fees (B6.1)F:..... V:..... T:.....	Item		
71	Enclosure of the works (B6.2)F:..... V:..... T:.....	Item		
72	Advertising (B6.3)F:..... V:..... T:.....	Item		
73	Plant, equipment, sheds and offices (B6.4)F:..... V:..... T:.....	Item		
74	Main notice board (B6.5)F:..... V:..... T:.....	Item		
75	Subcontractors' notice board (B6.6) F:..... V:..... T:.....	Item		
<u>Temporary services (B7)</u>				
76	Location (B7.1)F:..... V:..... T:.....	Item		
77	Water (B7.2) Option [A] / [B] ? shall apply F:..... V:..... T:.....	Item		
78	Electricity (B7.3) Option [A] / [B] ? shall apply F:..... V:..... T:.....	Item		
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79	Telecommunication facilities (B7.4) F:..... V:..... T:.....	Item	
80	Ablution facilities (B7.5) Option [A] / [B] ? shall apply F:..... V:..... T:..... <u>Prime cost amounts (B8)</u>	Item	
81	Responsibility for prime cost amounts (B8.1)F:..... V:..... T:..... <u>Attendance on N/S Subcontractors (B9)</u>	Item	
82	General attendance (B9.1)F:..... V:..... T:.....	Item	
83	Special attendance (B9.2)F:..... V:..... T:.....	Item	
84	Commissioning - Fuel, water and power (B9.3)F:..... V:..... T:..... <u>Financial aspects (B10)</u>	Item	
	Statutory taxes, duties and levies (B10.1)F:..... V:..... T:.....	Item	
85	Payment of preliminaries (B10.2) Option [A] / [B] ? shall apply F:..... V:..... T:.....	Item	
86	Adjustment of preliminaries (B10.3)F:..... V:..... T:.....	Item	
87	Payment certificate cash flow (B10.4)F:..... V:..... T:.....	Item	
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<u>General (B11)</u>				
88	Protection of works (B11.1)F:..... V:..... T:.....	Item		
89	Protection/isolation of existing/sectionally occupied works (B11.2)F:..... V:..... T:.....	Item		
90	Security of the Works (B11.3) F:..... V:..... T:.....	Item		
91	Notice before covering work (B11.4)F:..... V:..... T:.....	Item		
92	Disturbance (B11.5) F:..... V:..... T:.....	Item		
93	Environmental Disturbance (B11.6) F:..... V:..... T:.....	Item		
94	Works cleaning and clearing (B11.7) F:..... V:..... T:.....	Item		
95	Vermin (B11.8) F:..... V:..... T:.....	Item		
96	Overhand work (B11.9) F:..... V:..... T:.....	Item		
97	Instruction manuals and guarantees (B11.10) F:..... V:..... T:.....	Item		
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98	As built information (B11.11) F:..... V:..... T:.....	Item	
99	Tenant Installations (B11.12) F:..... V:..... T:.....	Item	
<u>Schedule of variables (B12)</u>			
100	Pre-tender information (B12.1)F:..... V:..... T:..... 12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional: Yes/No 12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete Yes/No 12.1.3 Interest of agents (B2.4) 12.1.4 Defined works area (B3.1) 12.1.5 Geotechnical investigation (B3.2)	Item	
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12.1.6 Existing premises occupied (B3.4)

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12.1.7 Previous work - dimensional accuracy (B3.4)

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12.1.8 Previous work - defects (B3.5)

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12.1.9 Services - known (B3.7)

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12.1.10 Protection of trees (B3.9)

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<p>12.1.11 Inspection of adjoining properties (B3.11)</p> <p>.....</p> <p> </p> <p> </p> <p>12.1.12 Enclosure of the works (B6.2)</p> <p>.....</p> <p> </p> <p> </p> <p>12.1.13 Offices (B6.4.3)</p> <p>.....</p> <p> </p> <p> </p> <p>12.1.14 Main notice board (B6.5)</p> <p>.....</p> <p> </p> <p> </p> <p>12.1.15 Subcontractors notice board (B6.6)</p> <p> A notice board is required</p> <p style="text-align: right;">Yes/No</p> <p>12.1.16 Water (B7.2)</p> <p> Alternative Selected:</p> <p>12.1.17 Electricity (B7.3)</p> <p> Alternative selected:</p> <p>12.1.18 Telecommunications (B7.4)</p> <p>12.1.19 Ablution facilities (B7.5)</p> <p> Alternative selected:</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>	<div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; position: relative;"> </div>
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12.1.20 Protection of existing/sectionally occupied works (B11.2)

12.1.21 Special attendance (B9.2)

Subcontractor (1) details:

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12.1.22 Protection of the works (B11.1)

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12.1.23 Disturbance (B11.5)

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12.1.24 Environmental Disturbance (B11.6)

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Post tender information (B12.2)

12.2.1 Payment of preliminaries
Alternative selected:

12.2.2 Adjustment of preliminaries
Alternative selected:

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12.2.3 Additional agreed preliminaries items
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SECTION C: SPECIFIC PRELIMINARIES

Any special items to meet the particular circumstances of a specific project are embodied in this section. Where required for an aspect of the works to be executed according to a design by a consulting engineer, a recital of the headings to the individual clauses of the JBCC Engineering General Conditions are included

101 Occupational Health and Safety Compliance (BoQ to be provided on award)

Item

102 Community Liaison Officer (CLO)

Allowance for the employment of a Community Liaison Officer @ R10,000.00 per month for the duration of the contract

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

Item

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Hemfane Primary School Asbestos Removal Programme

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<u>COLLECTION</u>			
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Hemfane Primary School Asbestos Removal Programme

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Item No	Quantity	Rate	Amount
<p><u>BILL NO. 1</u></p> <p><u>ALTERATIONS</u></p> <p><u>PREAMBLES</u></p> <p><u>Note:</u></p> <p>The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder</p> <hr/> <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 for demolition purposes unless otherwise stated</p> <p><u>General</u></p> <p>The contractor shall carry out the whole of the works 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, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p>			
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<p>Section No. 2 Repairs and Renovations Bill No. 1 Alterations</p>			

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

Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc

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

With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary

The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)

(CPAP WORK GROUP NO. 102) unless otherwise stated

REMOVAL OF EXISTING WORK

Breaking down and removing brickwork etc

1	Air bricks	No	195	
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Section No. 2
Repairs and Renovations
Bill No. 1
Alterations

	<p><u>Taking out and removing Asbestos material by specialist including spraying with fibre coagulant chemicals, brushing to remove all loose and flanking fibres and collecting same in approved collection bags, marking and carting off site in an enclosed plastic lined vehicle and dumping at an approved hazard waste facility including providing the necessary certification thereof all in strict accordance with the Occupational Health and Safety (OHS) Act, SANS regulations and Asbestos Regulations 2001 (Architectural Specification Code: RF-SA-01)</u></p> <p>Any person who erects, maintains, alters, renovates, repairs or dismantles asbestos roof sheeting, gutters, fascia boards and barge boards shall ensure that:</p> <p>a) Full compliance with the Asbestos Abatement Regulations 2020, Asbestos Inspection Authority (AIA) and Occupational Health and Safety Act (Act 85 of 1993)</p> <p>b) Written work procedures are laid down and followed to prevent the release of asbestos dust into the environment.</p> <p>c) All run-off water must be filtered before entering the stormwater system.</p> <p>d) Full compliance with the department of labour requirements in terms of the safe removal and/or the safe repair (patching) of the asbestos roof sheeting.</p> <p>e) Notification in terms of an 'asbestos plan' must be submitted to an approved inspection authority and then to the department of labour for approval prior to working on any asbestos roof sheeting.</p>				
2	Asbestos material such as roof sheeting / tiles, ceiling panels, walls cladding, fascia boards, barge boards, gutters, window seals etc. (Provisional)	m2	550		
	<u>Taking out and removing doors, windows, etc</u>				
3	Timber single door and frame not exceeding 2,5m ²	No	36		
	<u>Taking out doors, windows, etc, including thresholds, sills, etc, setting aside for re-use and later refixing in similar new position</u>				
4	Single security gate size 900 x 2030mm high overall	No	27		
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Section No. 2 Repairs and Renovations Bill No. 1 Alterations					

**Hemfane Primary School
Asbestos Removal Programme**

	<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>				
5	Competent persons to inspect existing roof coverings and trusses and provide specifications for the removal and replacement (replacement elsewhere measured) of roof structure	m2	1,926		
6	Gable roof 289m2 complete with all trusses, rafters, etc		Item		
7	Gable roof 291m2 complete with all trusses, rafters, etc		Item		
8	Timber trusses not exceeding 10000 x 1500mm high overall	No	15		
9	Existing roof covering	m2	1,926		
10	Fascias and bargeboards	m	407		
11	Gutters and rainwater pipes	m	390		
12	Gypsum plasterboard ceilings, including timber bandering, cornices, etc in patches	m2	1,926		
13	Ceramic floor tiles	m2	176		
14	Vinyl floor tiles	m2	175		
	<u>Taking out and removing sundry joinery work, fittings, etc</u>				
15	Removal of existing roof trusses including purlins, wall plates, hoop iron ties etc.	m2	580		
16	Timber skirtings	m	825		
17	Counter top 1160 x 700 x 70mm thick	No	1		
	<u>Taking out and removing ironmongery</u>				
18	Hinges	No	72		
19	Door handle	No	36		
20	Door lock	No	36		
21	Door stop	No	36		
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	Section No. 2 Repairs and Renovations Bill No. 1 Alterations				

22	1500 x 1500mm High pinning boards	No	28
23	Chalkboards	No	50
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u>		
24	25mm Screed from floors	m2	1,803
25	Internal plaster from walls and columns	m2	472
	<u>Making good cement screeds</u>		
26	On floors in patches not exceeding 35mm thick	m2	578
27	Screed on floors not exceeding 35mm thick	m2	35
	<u>Taking out/off and removing glass and mirrors</u>		
28	Glass from steel windows, including cleaning out rebates and preparing for new glass	m2	399
	<u>PREPARATORY WORK TO EXISTING SURFACES</u>		
29	Existing timber door leaves to be sanded smooth and prepared for painting. Prime door leaf then paint with 2-3 coats paint/varnish so as to achieve complete coverage.	m2	25
30	Make good to GMS door frames then treat with cold galvanise.	m2	25
31	Existing galvanised mild steel gate to be cleaned and all paint/rust to be removed. Once all paint/rust has been removed, prepare gate and treat with cold galvanising.	No	2
	<u>MAKING GOOD OF FINISHES, ETC</u>		
	<u>Prepare existing walls by scraping and sanding down loose and flaking paint and make good and paint (paintwork elsewhere measured)</u>		
32	On internal walls	m2	2,684
33	On external walls	m2	2,282
34	Brick piers	m2	75
Carried to Collection			
Section No. 2 Repairs and Renovations Bill No. 1 Alterations			

R

GENERAL MAINTENANCE

Metal roof coverings:

Surface preparation

High-pressure clean roofs to remove of all dirt. Remove any fungal growth or algae with household bleach (3,5% solution of sodium hypochlorite) thinned 2 parts bleach to 1 part water by volume. Leave on surface for approximately 1 hour and then scrub with a hard bristle brush to remove all dead growth. Rinse thoroughly with fresh water. Allow to dry

Repair leaks and defective flashing with Plascon multiseal (WSS 2) professional waterproofing compound (PWC 520) or similar approved and the appropriate waterproofing membrane

Surfaces must be clean, firm and thoroughly dry before painting

Where large perforations and damages in existing roof sheets, flashings, roof caps, etc are found the contractor is to remove the affected items and replace with new to match the existing (elsewhere measured). Sample of replacement items and technical data sheet to be provided to the Architect for approval prior to installation

Architectural specification code: RF-M-01

35	Existing metal roof coverings (measured on flat)	m2	1,750
36	Flashings	m	193
	<u>Making good and sealing external face brickwork (sealing of face brickwork measured elsewhere)</u>		
37	Clean down existing face brick walls with high pressure water hose	m2	210
38	Facebrick walls (Architectural Specification Code: WF-FB-01)	m2	875
	<u>Making good exposed concrete</u>		
39	General maintenance to concrete verandah including washing down, repairing spalling, power float etc	m2	350

Carried to Collection

R

Section No. 2
Repairs and Renovations
Bill No. 1
Alterations

40	General maintenance to exposed concrete at stormwater drains including washing down, repairing spalling, etc not exceeding 300mm wide	m	200		
	<u>Making good gypsum plasterboard ceilings and timber brandering with taped joints and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer</u>				
41	Ceilings	m2	175		
	<u>SUNDRIES</u>				
	<u>Overall, adjust, service and replace broken or missing hinges, stays, handles, glazing, hacking out damaged beading and re-bead to existing windows including cleaning glazing and frame including the cleaning and treatment for rust to burglar bars. Thereafter inspect and repair damages to frame beading and glazing. Repair all imperfections as per surface preparation guidelines</u>				
42	Existing Windows	No	25		
	<u>OPENINGS THROUGH EXISTING WALLS ETC</u>				
	<u>Altering openings</u>				
	<u>Structural cracks to internal walls</u>				
43	Removal of existing plaster of 1500mm wide x 2800mm high to fix vertical crack	m2	75.00		
44	Removal of existing plaster of 1500mm high to fix vertical crack	m2	100.00		
45	Fix 32mm metal strap against wall including concrete nails	m	75.00		
46	20mm Thick plaster to internal walls or to match existing	m2	75.00		
47	Suitable crack filler on visible plaster cracks	m2	75.00		
	<u>Structural cracks to external walls</u>				
48	Remove one skin of existing facebrick to make good to allow for metal strap to be fixed (New brickwork measured elsewhere)	m2	25		
Carried to Collection				R	
Section No. 2 Repairs and Renovations Bill No. 1 Alterations					

Hemfane Primary School Asbestos Removal Programme

[illegible]

Hemfane Primary School Asbestos Removal Programme

[illegible]

Item No	Quantity	Rate	Amount
<p><u>BILL NO 2</u></p> <p><u>PRECAST CONCRETE</u></p> <p><u>PREAMBLES</u></p> <p><u>Note:</u></p> <p>The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder</p> <hr/> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Sizes</u></p> <p>Blocks, sills, etc measured linear shall be made in suitable lengths. Large size setting out drawings shall be prepared where necessary and submitted to the principal agent for approval before moulds are made</p> <p><u>General</u></p> <p>Where kerbstones, blocks, etc are laid in ground descriptions shall be deemed to include necessary excavation, filling in and ramming</p> <p><u>User note</u></p> <p><i>Where precast concrete copings, sills, beams, facings, claddings, etc are specially designed then the relevant supplementary preambles are to be included here. Items are to be given with brief descriptions referring to detailed drawings annexed to these bills of quantities where necessary</i></p> <p><u>(CPAP WORK GROUP NO. 112) unless otherwise stated</u></p>			
<p style="text-align: right;">Carried to Collection</p>		R	
<p>Section No. 2 Repairs and Renovations Bill No. 2 Precast Concrete</p>			

PRECAST CONCRETE COVERS, ETC

- 1 820 x 670 x 100mm thick overall and 600 x 450mm wide clear opening size "Vanstone Code: P2-1532" or equal approved reinforced concrete manhole cover and frame. Cover equipped with two lifting slots and a galvanized steel rim lining

No

11

Carried to Collection

R

Section No. 2
Repairs and Renovations
Bill No. 2
Precast Concrete

[illegible]

Item No	Quantity	Rate	Amount
<p><u>BILL NO 3</u></p> <p><u>MASONRY</u></p> <p><u>PREAMBLES</u></p> <p><u>Note:</u></p> <p>The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder</p> <hr/> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>BRICKWORK</u></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the width and "half brick" the width of a brick</p> <p><u>Hollow walls</u></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole</p> <p><u>User note</u></p> <p><i>The following preamble generally applies for works in hot and humid coastal areas</i></p> <p><u>Bagged and sealed walls</u></p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating</p>			
<p>Carried to Collection</p>			<p>R</p>
<p>Section No. 2 Repairs and Renovations Bill No. 3 Masonry</p>			

<u>Face bricks</u>					
Bricks shall be ordered timeously to obtain uniformity in size and colour					
<u>Pointing</u>					
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc					
<u>DECORATIVE BLOCKS</u>					
Blocks shall be of approved manufacture, sound, well burnt or cured and uniform and true in size, shape and colour					
<u>(CPAP WORK GROUP NO. 116) unless otherwise stated</u>					
<u>BRICKWORK</u>					
<u>SUPERSTRUCTURE</u>					
<u>Brickwork of NFP bricks in class II mortar</u>					
1	Half brick walls in beamfilling	m2	98		
<u>SUPERSTRUCTURE</u>					
2	Air brick	No	196		
<u>Galvanised hoop iron cramps, ties, etc</u>					
3	30 x 1,6mm Roof tie 1,5m long with one end built into brickwork or cast in on top of concrete and other end fixed to timber	No	132		
Carried to Collection				R	
Section No. 2 Repairs and Renovations Bill No. 3 Masonry					

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Item No		Quantity	Rate	Amount
	<u>BILL NO 4</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	<u>Note:</u>			
	The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<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			
	<u>(CPAP WORK GROUP NO. 120) unless otherwise stated</u>			
	<u>WATERPROOFING TO ROOFS, BASEMENTS, ETC</u>			
	One layer 1,7mm self-adhesive fully bonded waterproof membrane comprising 1,4mm rubberised asphalt and a layer of heat-resistant woven polypropylene mesh, laid with 75mm side and 100mm end laps			
1	On concrete roofs	m2	14	
	<u>SEALING STRIPS, JOINT SEALANTS, ETC</u>			
	<u>Silicone joint sealing strips</u>			
2	Approximately 5 x 5mm In joints between window frames and walls	m	144	
	Carried Forward to Summary of Section No. 2			
	Section No. 2			
	Repairs and Renovations			
	Bill No. 4			
	Waterproofing			

Item No		Quantity	Rate	Amount
	<u>BILL NO 5</u>			
	<u>ROOF COVERINGS</u>			
	<u>PREAMBLES</u>			
	<u>Note:</u>			
	The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder			
	<u>(CPAP WORK GROUP NO. 124) unless otherwise stated</u>			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,58mm "Brownbuilt Klip-Lok 700" roof sheeting system complete with all fittings and fixtures installed strictly according to manufacturers specification. Chromadek finish (Colour: Dark Dolphin)</u>			
1	Roof covering with pitches not exceeding 25 degrees with side laps sealed with 6 x 20mm closed cell bitumen impregnated polyurethane foam strips and seam stitched	m2	1,750	
2	Ridge cappings 450mm girth	m	200	
3	Cover flashings 200mm girth	m	200	
4	Side wall flashings 450mm girth	m	200	
5	Head wall flashings 450mm girth	m	200	
6	Standard narrow and broad flute closers	m	200	
7	Moulded narrow and broad rib polyethylene filler blocks	m	200	
	Carried to Collection		R	
	Section No. 2 Repairs and Renovations Bill No. 5 Roof Coverings			

ROOF AND WALL INSULATION

8	50mm Lamdaboard Insulation sheeting fixed to underside of rafters not exceeding 400mm centres and double-sided tape at edges where required <div></div>	m2		1,750	
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Section No. 2
Repairs and Renovations
Bill No. 5
Roof Coverings

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Item No	Quantity	Rate	Amount
<p><u>BILL NO 6</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>PREAMBLES</u></p> <p><u>Note:</u></p> <p>The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder</p> <hr/> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere</p> <p><u>Joinery</u></p> <p>Descriptions of frames shall be deemed to include frames, transomes, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts</p> <p><u>Decorative thermosetting plastic laminate covering</u></p> <p>Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p>Carried to Collection</p>			<p>R</p>
<p>Section No. 2 Repairs and Renovations Bill No. 6 Carpentry and Joinery</p>			

(CPAP WORK GROUP NO. 126) unless otherwise stated

ROOFS ETC

SUPPLEMENTARY PREAMBLES

Plate nailed timber roof truss construction etc

Tenderers are to make allowance in their rates for additional expenses in regard to treatment of timber against insect pest affecting softwood fixed permanently in the building

The design of prefabricated roof trusses, bracings and secondary members forming part of the total timber roof construction shall be prepared by a professional structural engineer- Truss System Engineer

A copy of letter reference TR1 and TR2 must be completed and signed by the Truss System Engineer and submitted to the Architect

The tenderer is to allow in his rates for the roof trusses for the design, manufacture, supply, hoisting and fixing of the roof trusses and permanent bracings, any necessary temporary bracing, and for the costs of all inspections by the Truss System Engineer

Trusses are at maximum 1150mm centres

Roof coverings are 0,58mm embossed profile metal sheets on 50 x 76mm purlins

Ceilings are 12.5mm gypsumboard or mineral wool suspended ceilings on 38 x 50mm brandering or metal tees

Sawn softwood

Carried to Collection

Section No. 2
Repairs and Renovations
Bill No. 6
Carpentry and Joinery

R

**PLATE NAILED TIMBER ROOF TRUSS
CONSTRUCTION ETC**

1	Design, manufacture, supply, hoist and fix gang nailed trusses not exceeding 10000 x 1500mm high including trusses, rafters, temporary and permanent bracings, wall plates, runners, gangboards, valley boards, teco products, etc all as per Engineers design. Roof pitch not exceeding 22,5 degrees. The Contractor must submit the required TR1 and TR2 certificates which certify that the gang-nailed roof trusses have been designed by an approved competent person (registered with ECSA) and the TR2 certificate confirms that the installation of the gang-nailed roof trusses on site has been inspected, checked for compliance with the roof truss shop drawings and approved by an approved competent person (registered with ECSA).	No	15
2	Design, manufacture, supply, hoist and fix including trusses, rafters, temporary and permanent bracings, purlins, wall plates, runners, gangboards, valley boards, teco products, and removal of existing roof trusses etc all as per Engineers details. Roof pitch is 22,5 degrees. Floor area is 289.23m2	m2	290
3	Design, manufacture, supply, hoist and fix including trusses, rafters, temporary and permanent bracings, purlins, wall plates, runners, gangboards, valley boards, teco products, and removal of existing roof trusses etc all as per Engineers details. Roof pitch is 22,5 degrees. Floor area is 290.92m2	m2	291
4	Extra over for wrought splayed purlins at eaves	m	2,255
<u>Sundries</u>			
5	Two coats creosote on wall plate and exposed roof timbers	m2	56

Tenderers are to make allowance in their rates for additional expenses in regard to treatment of timber against insect pest affecting softwood fixed permanently in the building

EAVES, VERGES, ETC

High density plain fibre-cement flat sheets

Carried to Collection

R

Section No. 2
Repairs and Renovations
Bill No. 6
Carpentry and Joinery

	<u>EVERITE NUTEC pressed fibre-cement fascia boards 12mm thick with aluminium H-profile fascia joiners (Product no. 685-195) screwed to soffit batten and purlin with cadmium-plated screws. Fixing to be hidden and no short fascia lengths permitted. Fascias to be sealed all sides.</u>				
6	12 x 225mm Fascias, including galvanised steel H-profile joiners (product no. 685-195)	m	440		
	<u>EVERITE NUTEC pressed fibre-cement barge boards 12mm thick with aluminium H-profile fascia joiners (Product no. 685-195) screwed to soffit batten and purlin with cadmium-plated screws. Fixing to be hidden and no short fascia lengths permitted. Fascias to be sealed all sides.</u>				
7	80 x 275mm Barge boards, including aluminium H-profile joiners etc	m	245		
	<u>SKIRTINGS</u>				
	<u>RAILS</u>				
	<u>S A Pine</u>				
8	22 x 45mm Rebated and moulded dado rail	m	8		
	<u>DOORS ETC</u>				
	<u>Soild flush panel door leaf with veneer with 6.4mm laminated safety glass fanlights as per Bruply</u>				
9	40mm Door 813 x 2032mm high	No	38		
	<u>Soild flush panel 1 and a half door leaf with veneer as per Bruply sanded down and treated with "Rubout"</u>				
10	40mm Door 1575 x 2032mm high	No	1		
	<u>Soild flush panel door leaf with veneer as per Bruply</u>				
	<u>CUPBOARDS TO KITCHENS, BEDROOMS, ETC</u>				
	<u>High density plain fibre-cement fascias</u>				
Carried to Collection				R	
Section No. 2 Repairs and Renovations Bill No. 6 Carpentry and Joinery					

SUPPLEMENTARY PREAMBLES

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

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

References

References given in descriptions refer to the respective types of fittings detailed on the architect's drawings numbered annexed to these bills of quantities for tender purposes

Kitchen cupboards etc with hinges, handles and drawer slides

11	Floor drawers type 4100 x 540 x 850mm high with 16mm thick red oak "Bison Ply" with finish on both sides with 10mm solid red oak edging stripsto all exposed edges with edging strip corners cut at 45 degrees counter backing with steel draw sliding track and flush door handle as per "Buchel" code B3641 with granite tops	No	1
12	Floor cupboard type 4100 x 540 x 850mm high with 22mm and 16mm thick red oak "bison ply" finish on both sides with 10mm solid red oak edging stripsto to all exposed edges eith edging strip corners cut at 45 degrees counter backing with single hinged door with flush door handle as per " Buchel" code B 3641 with magneic catch and granite tops	No	1
13	Floor cupboard type 8200 x 540 x 850mm high with 22mm and 16mm thick red oak "bison ply" finish on both sides with 10mm solid red oak edging stripsto to all exposed edges eith edging strip corners cut at 45 degrees counter backing with double hinged doors with flush door handle as per " Buchel" code B 3641 with magneic catch and granite tops	No	1

Carried to Collection

R

Section No. 2
Repairs and Renovations
Bill No. 6
Carpentry and Joinery

**Hemfane Primary School
Asbestos Removal Programme**

14	Sink cupboard type 7500 x 540 x 850mm high with 50 x 25 x 2.5 mm mild steel hollow section fastened to wall using M10 heavy duty expansion bolt including 45 x 22 mm solid red oak with edges cut at 45 degrees (sink elsewhere measured)	No	1		
	<u>Store room shelves etc</u>				
15	Store room shelves type 2250 x 900 x 2900mm high including 25 x 50 x 2.5mm mild steel hollow section framework bolted with M10 heavy duty bolts with 25mm thick hardwood fixed to steel frame and 50 x 25 x 2.5mm thick mild steel bracket welded to frame and fixed to floor using M10 heavy duty bolts with adjustable foot (inner shelves-not fixed to the wall)	No	3		
16	Store room shelves type 2250 x 880 x 2900mm high including 25 x 50 x 2.5mm mild steel hollow section framework bolted with M10 heavy duty bolts with 25mm thick hardwood fixed to steel frame and 100 x 50 x 25 x 2.5mm thick mild steel bracket welded to frame and fixed to floor using M10 heavy duty bolts with adjustable foot	No	2		
	<u>Classroom cupboards</u>				
17	Passage cupboards type 2500 x 600 x 1300mm, 16mm thick red oak "BISON PLY" with finish on both sides with 10mm solid red oak edging strips to all exposed edges with edging strip corners to be 45 degrees counter backing	No	14		
Carried to Collection				R	
Section No. 2 Repairs and Renovations Bill No. 6 Carpentry and Joinery					

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Item No	Quantity	Rate	Amount
<p><u>BILL NO 7</u></p> <p><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>PREAMBLES</u></p> <p><u>Note:</u></p> <p>The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder</p> <hr/> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere</p> <p><u>Ceilings</u></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><u>Steel components</u></p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121</p> <p><u>(CPAP WORK GROUP NO. 129) unless otherwise stated</u></p> <p><u>CEILING TIMBERS, BEADS, INSULATION, ETC</u></p>			
<p>Carried to Collection</p>			<p>R</p>
<p>Section No. 2 Repairs and Renovations Bill No. 7 Ceilings, Partitions and Access Flooring</p>			

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Item No		Quantity	Rate	Amount
	<u>BILL NO 8</u>			
	<u>FLOOR COVERINGS, WALL LININGS, ETC</u>			
	<u>PREAMBLES</u>			
	<u>Note:</u>			
	The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>SELF LEVELLING SCREEDS</u>			
	<u>Laying</u>			
	Self-levelling screed to be laid on a dry clean surface. Screed to be laid in accordance with the manufacturer's specification with the relevant primers and bonding agents. Floor must comply with SABS 0155 1980 where no wave should exceed 3mm over a 3m span			
	<u>Fixing</u>			
	Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc			
	<u>FLOOR COVERINGS</u>			
	<u>2mm thick fully flexible vinyl sheeting as per Architects specification, acrylic adhesive to be laid on and including new TAL screedmaster self-levelling screed according to the manufacturer's specification</u>			
1	On floors	m2	1,750	
	<u>POLISH, SEALERS, ETC</u>			
2	2 coats wax polish on vinyl flooring	m2	1,750	
	Carried Forward to Summary of Section No. 2			
	Section No. 2			
	Repairs and Renovations			
	Bill No. 8			
	Floor Coverings, Wall Linings, etc.			

Item No	Quantity	Rate	Amount
<p><u>BILL NO 9</u></p> <p><u>IRONMONGERY</u></p> <p><u>PREAMBLES</u></p> <p><u>Note:</u></p> <p>The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder</p> <hr/> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary items</u></p> <p>Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items</p> <p>Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered</p> <p>On request returnable samples are to be provided to the principal agent for consideration</p>			
<p>Carried to Collection</p>			<p>R</p>
<p>Section No. 2 Repairs and Renovations Bill No. 9 Ironmongery</p>			

<u>Finishes to ironmongery</u>					
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:					
BS Satin bronze lacquered					
CH Chromium plated					
SC Satin chromium plated					
SE Silver enamelled					
GE Grey enamelled					
AN Anodised natural					
AS Anodised silver					
AB Anodised bronze					
AG Anodised gold					
ABL Anodised black					
PB Polished brass					
PL Polished and lacquered					
PT Epoxy coated					
SD Sanded					
<u>(CPAP WORK GROUP NO. 132) unless otherwise stated</u>					
<u>HINGES, BOLTS, ETC</u>					
<u>"Union" or equal approved</u>					
1	SS 2BB BUTT HINGE EN1935GRD13 (JH-BB-STD-2-SS)	No	76		
<u>LOCKS</u>					
<u>"EN-SUITE" LOCKS</u>					
The following locks are to be suitable for master key operation					
<u>"Union" or equal approved</u>					
2	4 lever union lock set	No	38		
3	Union Euro CYL Deadlock SS (L-2109-78SS)	No	27		
4	Union bathroom lock SS (2226-78SS)	No	2		
<u>DOOR CLOSERS</u>					
<u>"Dorma" or equal approved</u>					
5	R & P Closer EN3-6 SIL (DC300)	No	11		
Carried to Collection				R	
Section No. 2 Repairs and Renovations Bill No. 9 Ironmongery					

<u>HANDLES</u>					
	<u>"Union" or equal approved</u>				
6	350mm Back to back pull handle (5213BBSS)	Pairs	38		
<u>LETTERS, NAMEPLATES, ETC</u>					
	<u>"Union" or equal approved</u>				
7	5mm Thick perspex plate with engraved and painted letters or numerals for office doors	No	38		
	<u>"Solid" or equal approved</u>				
8	Tea/Kitchen sign (SS5066-06SSE02)	No	1		
9	Male indicator sign (SS5066-06SSSE10)	No	1		
10	Female indicator sign (SS5066-06SSSE11)	No	1		
11	Paraplegic Toilet sign (SS5066-06SSSE14)	No	1		
12	150 x 150mm Anodised aluminium plate with fire exit, fire extinguisher, fire hose reel or fire hydrant symbol and directional signage	No	4		
<u>KICK PLATES, ETC</u>					
	<u>Stainless steel kick plates and push plates</u>				
13	Kick plates 200 x 800mm wide	No	51		
<u>ALUMINIUM VENTILATION LOUVRES</u>					
	<u>Trox natural anodised aluminium ventilation louvre fitted to hardwood door including cutting the hole in the door and fixing vent in place</u>				
14	<u>Louvres 400 x 400mm high</u>	No	8		
<u>SUNDRIES</u>					
	<u>"Union" or equal approved</u>				
15	Floor door stop satin SS (87001SS)	No	38		
16	Hat and coat hook with buffer (SS8025SS)	No	13		
Carried to Collection				R	
Section No. 2 Repairs and Renovations Bill No. 9 Ironmongery					

BATHROOM FITTINGS

"Union" or equal approved

17	Sanitary bin	No	2	
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BLINDS (PROVISIONAL)

Hunter Douglas SA supplying Luxaflex or equal approved manually operated 127mm 'Solar Bloc Grey' (code:240100),privacy and light control fabric vertical blinds complete with standard stacking flame retardant slats ,recess fixed to walls Contact no: (011) 624-1222/3/4

18	673 x 511mm high overall (Window type SS21/SS21)	No	4	
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19	2000 x 2400mm high overall	No	8	
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PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC

Vitrex System 2000 Pin Boards of Flortime Premier pinning material (colour:misty) laminated to a soft board, the unit to be beaded all around with a aluminum channels surround mitered at the corners (code:2304). Pin board supplied complete with necessary fixing components and fixed in position strictly according to manufacturer's instructions.

20	Pinning boards size 1000 x 1500mm high	No	58	
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21	White boards size 1000 x 1500mm high	No	58	
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Carried to Collection

R

Section No. 2
Repairs and Renovations
Bill No. 9
Ironmongery

[illegible]

Item No	Quantity	Rate	Amount
<u>BILL NO. 10</u>			
<u>METALWORK</u>			
<u>PREAMBLES</u>			
<u>Note:</u>			
<p>The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder</p> <hr/>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions of bolts, anchors, etc</u>			
<p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres</p>			
<u>(CPAP WORK GROUP NO. 136) unless otherwise stated</u>			
<u>STEEL GATES</u>			
Carried to Collection			R
Section No. 2 Repairs and Renovations Bill No. 10 Metalwork			

	<u>Gates</u>				
1	40 x 40 x 3mm Galvanised mild steel gate with mitred corners including pre-drilled holes for barrel bolt locking, including padlock, including 50 x 50 x 3mm square galvanised mild steel hollow section gate frame with mitred corners, bolted to concrete palisade posts through pre-drilled holes in steel frame, overall size 950 x 2195mm high as per gate schedule GT01	No	26		
2	Galvanised mild steel double gate with mitred corners including mentex flatex mesh welded to gate frame including 3 x 50 x 50mm square hollow section galvanised mild steel gate frame with mitred corners, bolted to concrete palisade posts through pre-drilled holes in steel frame, overall size 1700 x 2100mm high as per gate schedule GT03	No	1		
	<u>GALVANISED STEEL WINDOWS, DOORS, ETC</u>				
	<u>Standard industrial type rolled steel window sections with standard brass fittings and with standard 20 x 5mm flat section burglar bars to fixed and opening sections</u>				
3	Window type SS21/SS21, 673 x 511mm high overall	No	26		
4	Window type, 2000 x 2400mm high overall	No	3		
	<u>GALVANISED PRESSED STEEL DOOR FRAMES</u>				
	<u>1,6mm Single rebated mild steel frames suitable for one brick walls</u>				
5	Frame for door 813 x 2032mm high	No	37		
	<u>1,6mm Single rebated mild steel frames suitable for one brick walls (180 degrees swing)</u>				
6	Frame for door 1690 x 2032mm high	No	1		
	<u>SERVICING OF EXISTING STEEL DOOR FRAMES</u>				
	<u>Overall, adjust, service, replace missing or broken hinges, striking plate, etc and leave in perfect working condition</u>				
7	Frame for door 813 x 2032mm high in one brickwall	No	2		
	Carried to Collection			R	
	Section No. 2				
	Repairs and Renovations				
	Bill No. 10				
	Metalwork				

[illegible]

Item No	Quantity	Rate	Amount
<u>BILL NO. 11</u>			
<u>PLASTERING</u>			
<u>PREAMBLES</u>			
<u>Note:</u>			
<p>The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder</p>			
<hr/>			
<u>GRANOLITHIC</u>			
<u>Method</u>			
<p>The method to be used shall be either the monolithic method or the bonded method</p>			
<u>Preparation</u>			
<p>For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic</p>			
<u>Mix</u>			
<p>Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic</p>			
Carried to Collection			R
Section No. 2 Repairs and Renovations Bill No. 11 Plastering			

Panels

Granolithic shall be laid in panels not exceeding 14m² for monolithic finishes, not exceeding 9,5m² for bonded finishes and not exceeding 6m² for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width

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

Laying

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

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

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

Curing, seasoning and protection

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

Colour

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

(CPAP WORK GROUP NO. 142) unless otherwise stated

Carried to Collection

Section No. 2
Repairs and Renovations
Bill No. 11
Plastering

R

PREAMBLES

The contractor is referred to relevant Clause in the document Model Preambles for Trades and Methods as published by the Association of South African Quantity Surveyors (2008 edition)

SCREEDS

Cement plaster screeds steel trowelled, on concrete

1	Average 20mm thick on roofs with upper surface to falls	m2	2,010	
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GRANOLITHIC

Non-slip untinted granolithic, on concrete

2	35mm Thick on floors	m2	150	
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INTERNAL PLASTER

15mm Cement plaster steel trowelled, on brickwork

3	On walls	m2	443	
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4	On narrow widths	m2	6	
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EXTERNAL PLASTER

Cement plaster wood floated, on brickwork

5	On walls	m2	667	
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Carried to Collection

R

Section No. 2
Repairs and Renovations
Bill No. 11
Plastering

[illegible]

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 12</u></p> <p><u>TILING</u></p> <p><u>PREAMBLES</u></p> <p><u>Note:</u></p> <p>The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder</p> <hr/> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing</u></p> <p>Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding</p> <p>Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat</p> <p>Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Professional" ("Ceresit Tylon") range of products as recommended by the manufacturer of the tiles</p> <p><u>(CPAP WORK GROUP NO. 144) unless otherwise stated</u></p> <p><u>WALL TILING</u></p>			
<p>Carried to Collection</p>			<p>R</p>
<p>Section No. 2 Repairs and Renovations Bill No. 12 Tiling</p>			

[illegible]

[illegible]

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 13</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p><u>(PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p><u>Note:</u></p> <p>The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder</p> <hr/> <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>Stainless steel basins, sinks, wash troughs, urinals, etc</u></p> <p>Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)</p> <p>Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)</p> <p>Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)</p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><u>Sealing of edges</u></p> <p>Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone</p>			
<p>Carried to Collection</p>			<p>R</p>
<p>Section No. 2 Repairs and Renovations Bill No. 13 Plumbing and Drainage (Provisional)</p>			

uPVC pipes and fittings

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

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

uPVC pressure pipes and fittings

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

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

High density polyethylene (HDPE) pipes and fittings

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

"Polycop" polypropylene pipes

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

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

Copper pipes

Pipes shall be hard drawn and half-hard "Maksal" 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

Carried to Collection

Section No. 2
Repairs and Renovations
Bill No. 13
Plumbing and Drainage (Provisional)

R

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

Reducing fittings

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

Fixing of pipes

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level

Paper wrapping to pipes

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

Disinfection of water pipework

Water pipework is to be disinfected at completion in accordance with SABS 1200L

"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 overlaps

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

Carried to Collection

Section No. 2
Repairs and Renovations
Bill No. 13
Plumbing and Drainage (Provisional)

R

Laying, backfilling, bedding, etc of pipes

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

Where no manufacturers' instructions exist, pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following:

SABS 1200L : Medium-pressure pipelines

SABS 1200LD : Sewers

SABS 1200LE: Stormwater drainage

Pipe trenches, etc shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB : Earthworks (Pipe trenches)

Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200LB : Bedding (Pipes)

Unless otherwise described bedding of rigid pipes shall be Class B bedding

General

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

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

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction and disposal of surplus material on site

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

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

Carried to Collection

Section No. 2
Repairs and Renovations
Bill No. 13
Plumbing and Drainage (Provisional)

R

(CPAP WORK GROUP NO. 148) unless otherwise stated

RAINWATER DISPOSAL

Seamless aluminium gutters and rainwater pipes with baked enamel finish

Seamless aluminium prepainted gutters and rainwater pipes

1	75 x 125mm PVC gutters	m	415		
2	Extra over gutter for outlet for 100 x 75mm pipe	No	17		
3	Extra over gutter for stopped end	No	17		
4	100 x 75mm Rainwater pipes	m	65		
5	Extra over rainwater pipe for shoe	No	17		
6	Extra over rainwater pipe for eaves or plinth offset	No	33		

FIRE APPLIANCES ETC

7	4.5kg Dry chemical powder fire extinguisher	No	3		
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Carried to Collection

R

Section No. 2
Repairs and Renovations
Bill No. 13
Plumbing and Drainage (Provisional)

[illegible]

Item No		Quantity	Rate	Amount
	<u>BILL NO. 14</u>			
	<u>GLAZING</u>			
	<u>PREAMBLES</u>			
	<u>Note:</u>			
	The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Float glass</u>			
	The term "float glass" is used for monolithic annealed glass			
	<u>Laminated glass</u>			
	Laminated glass to have polyvinyl butyral (PVB) interlayer(s)			
	<u>(CPAP WORK GROUP NO. 150) unless otherwise stated</u>			
	<u>GLAZING TO STEEL WITH PUTTY</u>			
	<u>6.4mm Laminated safety glass (SAGGA Certificate to be provided)</u>			
1	Panes exceeding 0,1m ² and not exceeding 0,5m ²	m2	6	
2	Panes exceeding 0,5m ² and not exceeding 2m ²	m2	399	
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2			
	Repairs and Renovations			
	Bill No. 14			
	Glazing			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 15</u>			
	<u>PAINTWORK</u>			
	<u>PREAMBLES</u>			
	<u>Note:</u>			
	The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>PAINT SPECIFICATIONS</u>			
	All paints shall be "Plascon" and done in accordance with "Plascon" specifications or equal approved			
	<u>COLOURS</u>			
	Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091			
	<u>(CPAP WORK GROUP NO. 152) unless otherwise stated</u>			
	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat Plascon plaster primer UC56 and two coats Double Velvet luxury wall coating paint (colour as per Architect)</u>			
1	Walls	m2	2,690	
	<u>One coat Plascon plaster primer UC56 and two coats Velvago wall coating paint (colour as per Architect)</u>			
2	Walls	m2	2,690	
	Carried to Collection			
	Section No. 2			
	Repairs and Renovations			
	Bill No. 15			
	Paintwork			

ON EXTERNAL FLOATED PLASTER SURFACES

One coat Plascon plaster primer UC56 and two coats Double Velvet luxury wall coating paint (colour as per Architect)

3	Walls	m2	192		
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ON PLASTERBOARD SURFACES

One coat alkali resistant primer and two coats Polvin super acrylic PVA emulsion paint

4	Ceilings and cornices ("White" colour group)	m2	2,250		
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5	Ceilings and cornices, including priming metal cover strips and nailheads	m2	176		
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One coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on steel

6	Door frames	No	71		
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ON FIBRE-CEMENT BOARD SURFACES

One coat alkali resistant primer and two coats superior quality acrylic PVA

7	Fascias and barge boards, including priming metal jointing strips (Provisional)	m2	93		
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ON WOOD SURFACES

Two coats of Plascon Velgo White (vlo 1)

8	Doors	m2	67		
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9	Skirtings and beads etc not exceeding 300mm girth	m	163		
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Treatment with cold galvanise as per manufacturers specification

10	Single security gate	m2	57		
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11	Double security gate	m2	3		
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PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK

Carried to Collection

R

Section No. 2
Repairs and Renovations
Bill No. 15
Paintwork

ON EXTERNAL FLOATED PLASTER SURFACES

One coat Plascon plaster primer UC56 and two coats Double Velvet luxury wall coating paint (colour as per Architect)

12	Epoxy paint on floors	m2	80
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ON PVC SURFACES

One coat water based galvanised iron acrylic primer and two coats pure acrylic roof coating, on galvanised steel. Preparation carried out as per Supplementary Preamble

13	Existing exposed PVC plumbing and drainage pipes not exceeding 300mm girth	m	6
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Carried to Collection

R

Section No. 2
Repairs and Renovations
Bill No. 15
Paintwork

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Bill No	Section No. 2		Page No	Amount	
	Repairs and Renovations				
	<u>SECTION SUMMARY - Repairs and Renovations</u>				
	1	Alterations			33
	2	Precast Concrete			36
	3	Masonry			39
	4	Waterproofing			40
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	7	Ceilings, Partitions and Access Flooring			53
	8	Floor Coverings, Wall Linings, etc.			54
	9	Ironmongery			59
	10	Metalwork			62
	11	Plastering			66
	12	Tiling			69
	13	Plumbing and Drainage (Provisional)			75
	14	Glazing			76
15	Paintwork	80			
Carried to Final Summary		R			
Section No. 2					
Repairs and Renovations					

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 1</u></p> <p><u>EARTHWORKS (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p><u>Note:</u></p> <p>The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder</p> <hr/> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground</u></p> <p>A soils investigation has been carried out on the site by the engineer and the report is bound in Part D. all very hard unweathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"</p> <p>No subterranean water is expected</p> <p><u>Excavation for working space in rock</u></p> <p>Notwithstanding clause 11 page 8 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</p> <p><u>Carting away of excavated material</u></p> <p>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</p>			
<p>Carried to Collection</p>			<p>R</p>
<p>Section No. 3 New SNP Kitchen Bill No. 1 Earthworks (Provisional)</p>			

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 necessary multiple handling of material

PRICES FOR FILLING ARE TO INCLUDE FOR ALL NECESSARY DENSITY TESTS IN ACCORDANCE WITH SABS 1200D

(CPAP WORK GROUP NO. 104) unless otherwise stated

EXCAVATION, FILLING, ETC

SITE CLEARANCE ETC

Site clearance

1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, trees not exceeding approximately 500mm girth, manhole covers and frames, stopcock boxes etc and generally grade, fill up small holes etc	m2	49
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EXCAVATIONS ETC

Excavations in earth not exceeding 2m deep

2	Trenches	m3	25
3	Reduced levels under floors	m3	10
4	Reduced levels under aprons	m3	6
5	Over site between buildings, etc to reduce levels and dispose in prescribed stock piles on site	m3	42

Extra over trench and hole excavations in earth for excavation in

6	Soft rock	m3	2
7	Hard rock	m3	1

Carried to Collection

R

Section No. 3
New SNP Kitchen
Bill No. 1
Earthworks (Provisional)

	<u>Extra over all excavations for carting away</u>			
8	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	58	
	<u>Risk of collapse of excavations</u>			
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	42	
	<u>Keeping excavations free of water</u>			
10	Keeping excavations free of all water other than subterranean water		Item	
	<u>FILLING ETC</u>			
	<u>Earth filling of approved selected filler material supplied by the contractor, compacted to 95% Mod AASHTO density</u>			
11	to form platforms	m3	1	
	<u>Excavation in earth not exceeding 2m deep</u>			
12	Backfilling to trenches, holes, etc	m3	9	
	<u>Earth filling of G5 material supplied by the contractor, compacted to 95% Mod AASHTO density</u>			
13	Under floors, ramps etc	m3	5	
	<u>Compaction of surfaces</u>			
14	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% Mod AASHTO density	m2	49	
	<u>Prescribed density tests on filling</u>			
15	"Modified AASHTO Density" test	No	3	
	<u>SOIL POISONING</u>			
	<u>Soil insecticide in accordance with SANS 5859</u>			
16	To bottoms and sides of trenches etc	m2	110	
	Carried to Collection			R
	Section No. 3 New SNP Kitchen Bill No. 1 Earthworks (Provisional)			

17	Treat ground under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming as per clause 2.13 of specification OOG-001E with 50mm sand over poison(sand elsewhere measured, Certificate must be provided)	m2	49
Carried to Collection			R
Section No. 3 New SNP Kitchen Bill No. 1 Earthworks (Provisional)			

[illegible]

Item No	Quantity	Rate	Amount
<p><u>BILL NO 2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>PREAMBLES</u></p> <p><u>Note:</u></p> <p>The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder</p> <hr/> <p><u>SUPPLEMENTARY PREAMBLES</u></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 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 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>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 (1:12); 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>			
Carried to Collection		R	
Section No. 3 New SNP Kitchen Bill No. 2 Concrete, Formwork and Reinforcement			

Lightweight concrete

Lightweight concrete shall have a density of 600kg/m³ for the top 50mm and 400kg/m³ for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 50mm

Formwork

Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use

The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself

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

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

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

User Note

In order to accommodate the custom in some regions to give formwork to sides of beams, isolated beams, etc separately from formwork to the soffits thereof, the items in respect of formwork to beams, isolated beams, etc are given under the headings of "formwork to sides", "formwork to soffits" and "formwork to sides and soffits"

CONCRETE

Carried to Collection

Section No. 3
New SNP Kitchen
Bill No. 2
Concrete, Formwork and Reinforcement

R

(CPAP WORK GROUP NO. 110) unless otherwise stated

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

10MPa/19mm concrete

1	Surface blinding under footings and bases	m3	1	
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REINFORCED CONCRETE CAST ON/IN FORMWORK

30MPa/19mm concrete

2	Strip footings	m3	10	
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3	Surface beds on waterproofing	m3	5	
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TEST CUBES

4	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	5	
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FORMWORK

(CPAP WORK GROUP NO. 111) unless otherwise stated

SMOOTH FORMWORK (DEGREE OF ACCURACY II)

Smooth formwork to sides

5	Edges not exceeding 300mm high	m	5	
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REINFORCEMENT

Mild steel reinforcement to structural concrete work

6	Bars not exceeding 8mm diameter	t	1.25	
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High tensile steel reinforcement to structural concrete work

7	Bars not exceeding 20mm diameter	t	1.80	
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Carried to Collection

Section No. 3
New SNP Kitchen
Bill No. 2
Concrete, Formwork and Reinforcement

R

8	<p><u>Fabric reinforcement</u></p> <p>Type 193 fabric reinforcement</p>	m2	49	
	<p>Carried to Collection</p>			<p>R</p>
	<p>Section No. 3 New SNP Kitchen Bill No. 2 Concrete, Formwork and Reinforcement</p>			

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Item No	Quantity	Rate	Amount
<p><u>BILL NO 3</u></p> <p><u>MASONRY</u></p> <p><u>PREAMBLES</u></p> <p><u>Note:</u></p> <p>The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder</p> <hr/> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>The SUPPLEMENTARY PREAMBLES applicable to the same trade in the preceding Sections, apply equally to this BILL</p> <p><u>(CPAP WORK GROUP NO. 116) unless otherwise stated</u></p> <p><u>BRICKWORK</u></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the width and "half brick" the width of a brick</p> <p><u>Hollow walls</u></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole</p> <p><u>User note</u></p> <p><i>The following preamble generally applies for works in hot and humid coastal areas</i></p>			
<p>Carried to Collection</p>			<p>R</p>
<p>Section No. 3 New SNP Kitchen Bill No. 3 Masonry</p>			

<u>Bagged and sealed walls</u>				
Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating				
<u>Face bricks</u>				
Bricks shall be ordered timeously to obtain uniformity in size and colour				
<u>Pointing</u>				
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
<u>FOUNDATIONS (PROVISIONAL)</u>				
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar (Corobrik engineering bricks)</u>				
1	Half brick walls	m2	7	
2	One brick walls	m2	22	
<u>SUPERSTRUCTURE</u>				
<u>Brickwork of NFP bricks in class II mortar</u>				
3	Half brick walls in beamfilling	m2	5	
4	Half brick walls	m2	36	
5	One brick walls	m2	118	
<u>BRICKWORK SUNDRIES</u>				
<u>2.5mm Brickwork reinforcement</u>				
6	75mm Wide reinforcement built in horizontally in foundations (Provisional)	m	28	
7	150mm Wide reinforcement built in horizontally in foundations (Provisional)	m	88	
8	75mm Wide reinforcement built in horizontally	m	164	
Carried to Collection				R
Section No. 3 New SNP Kitchen Bill No. 3 Masonry				

9	150mm Wide reinforcement built in horizontally <u>Turning pieces to soffit of lintels etc</u>	m	472
10	220mm Wide turning pieces <u>Galvanised hoop iron cramps, ties, etc</u>	m	6
11	30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end built into brickwork	No	18
<u>FACE BRICKWORK</u>			
<u>Nabraska Travertine face bricks pointed with recessed horizontal and vertical joints</u>			
12	Extra over brickwork for face brickwork in foundations (Provisional)	m2	7
13	Extra over brickwork for face brickwork	m2	90
14	Extra over brickwork for face brick-on-edge lintols	m	7
15	220mm Wide sills set sloping and slightly projecting <u>Air bricks etc</u>	m	7
16	229 x 76mm Clay vermin proof air brick	No	6
<u>FIBRE-CEMENT WINDOW SILLS</u>			
<u>Natural grey sills in single lengths bedded in class II mortar including metal fixing lugs,etc.</u>			
17	150mm Wide sills set flat and slightly projecting	m	6

Carried to Collection

Section No. 3
New SNP Kitchen
Bill No. 3
Masonry

R

Hemfane Primary School Asbestos Removal Programme

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Item No		Quantity	Rate	Amount
	<u>BILL NO 4</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	<u>Note:</u>			
	The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<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			
	<u>(CPAP WORK GROUP NO. 120) unless otherwise stated</u>			
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B)</u>			
1	In walls	m2	10	
	<u>One layer of 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>			
2	Under surface beds	m2	49	
	<u>SEALING STRIPS, JOINT SEALANTS, ETC</u>			
	Carried to Collection		R	
	Section No. 3 New SNP Kitchen Bill No. 4 Waterproofing			

3	<p><u>Silicone joint sealing strips</u></p> <p>Approximately 5 x 5mm In joints between window frames and walls</p>	m	25	
	<p>Carried to Collection</p>			R
	<p>Section No. 3 New SNP Kitchen Bill No. 4 Waterproofing</p>			

Hemfane Primary School Asbestos Removal Programme

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Item No		Quantity	Rate	Amount
	<u>BILL NO 5</u>			
	<u>ROOF COVERINGS</u>			
	<u>PREAMBLES</u>			
	<u>Note:</u>			
	The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	The SUPPLEMENTARY PREAMBLES applicable to the same trade in the preceding Sections, apply equally to this BILL			
	<u>(CPAP WORK GROUP NO. 124) unless otherwise stated</u>			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,58mm "Brownbuilt Klip-Lok 700" roof sheeting system complete with all fittings and fixtures installed strictly according to manufacturers specification. Chromadek finish (Colour: Dark Dolphin)</u>			
1	Roof covering with pitches not exceeding 25 degrees	m2	78	
2	Ridge cappings 450mm girth	m	10	
	<u>ROOF AND WALL INSULATION</u>			
3	50mm Lamdaboard Insulation sheeting fixed to underside of rafters not exceeding 400mm centres and double-sided tape at edges where required	m2	78	
	Carried Forward to Summary of Section No. 3			
	Section No. 3			
	New SNP Kitchen			
	Bill No. 5			
	Roof Coverings			

Item No	Quantity	Rate	Amount
<p><u>BILL NO 6</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>PREAMBLES</u></p> <p><u>Note:</u></p> <p>The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder</p> <hr/> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>The SUPPLEMENTARY PREAMBLES applicable to the same trade in the preceding Sections, apply equally to this BILL</p> <p><u>(CPAP WORK GROUP NO. 126) unless otherwise stated</u></p> <p><u>ROOFS ETC</u></p> <p><u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC</u></p> <p>Tenderers are to make allowance in their rates for additional expenses in regard to treatment of timber against insect pest affecting softwood fixed permanently in the building</p> <p>The design of prefabricated roof trusses, bracings and secondary members forming part of the total timber roof construction shall be prepared by a professional structural engineer- Truss System Engineer</p> <p>A copy of letter reference TR1 and TR2 must be completed and signed by the Truss System Engineer and submitted to the Architect</p>			
<p>Carried to Collection</p>			<p>R</p>
<p>Section No. 3 New SNP Kitchen Bill No. 6 Carpentry and Joinery</p>			

The tenderer is to allow in his rates for the roof trusses for the design, manufacture, supply, hoisting and fixing of the roof trusses and permanent bracings, any necessary temporary bracing, and for the costs of all inspections by the Truss System Engineer

SUPPLEMENTARY PREAMBLES

Trusses are at maximum 1150mm centres

Sawn softwood treated

- 1 Design, manufacture, supply, hoist and fix including trusses, rafters, temporary and permanent bracings, purlins, wall plates, runners, gangboards, valley boards, teco products, etc all as per Engineers details. Roof pitch is 22,5 degrees.
Floor area is 49m2

m2 49

- 2 Extra over for wrought splayed purlins at eaves

m 33

- 3 Extra over for 1200mm long wrought and shaped rafter foot

No 27

Sundries

- 4 Two coats creosote on wall plate and exposed roof timbers

m2 18

Tenderers are to make allowance in their rates for additional expenses in regard to treatment of timber against insect pest affecting softwood fixed permanently in the building

EAVES, VERGES, ETC

EVERITE NUTEC pressed fibre-cement fascia boards 12mm thick with aluminium H-profile fascia joiners (Product no. 685-195) screwed to soffit batten and purlin with cadmium-plated screws. Fixing to be hidden and no short fascia lengths permitted. Fascias to be sealed all sides.

- 5 12 x 225mm Fascias including aluminium H-profile joiners

m 20

Carried to Collection

R

Section No. 3
New SNP Kitchen
Bill No. 6
Carpentry and Joinery

	EVERITE NUTEC pressed fibre-cement barge boards 12mm thick with aluminium H-profile fascia joiners (Product no. 685-195) screwed to soffit batten and purlin with cadmium-plated screws. Fixing to be hidden and no short fascia lengths permitted. Fascias to be sealed all sides.				
6	12 x 275mm Barge boards, including aluminium H- profile joiners	m	16		
	<u>SKIRTINGS</u>				
	<u>Wrought meranti</u>				
7	12 x 75mm Skirtings including 19mm quadrant bead plugged and nailed	m	57		
	<u>DOORS ETC</u>				
	<u>Wrought meranti doors</u>				
8	40mm Framed, ledged and braced batten door 813 x 2032mm high filled in with tongued and grooved V- jointed one side vertical boarding	No	3		
	<u>Hollow core flush doors with commercial veneer, hung to steel frames</u>				
9	40mm Door 813 x 2032mm high	No	2		
	<u>FITTINGS</u>				
	<u>CUPBOARDS TO KITCHENS, BEDROOMS, ETC</u>				
	<u>High density plain fibre-cement fascias</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<p>The following cupboard fittings have been given as complete units i.e. the components of the units have not been given separately. Descriptions of such units shall, therefore, be deemed to include all components, assembling, housing, notching, glueing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or varnish finishes, etc</p> <p>Prices are to include for all necessary filler pieces against walls etc</p>				
	Carried to Collection			R	
	Section No. 3 New SNP Kitchen Bill No. 6 Carpentry and Joinery				

<u>References</u>					
References given in descriptions refer to the respective types of fittings detailed on the architect's drawings numbered annexed to these bills of quantities for tender purposes					
<u>Kitchen cupboards etc with hinges, handles and drawer slides</u>					
10	Sink cupboard type 7500 x 540 x 850mm high with 50 x 25 x 2.5 mm mild steel hollow section fasten ed to wall using M10 heavy duty expansion bolt including 45 x 22 mm solid red oak with edges cut at 45 degrees (sink elsewhere measured)	No	1		
<u>Store room shelves etc</u>					
11	Store room shelves type 2250 x 900 x 2900mm high including 25 x 50 x 2.5mm mild steel hollow section framework bolted with M10 heavy duty bolts with 25mm thick hardwood fixed to steel frame and 50 x 25 x 2.5mm thick mild steel bracket welded to frame and fixed to floor using M10 heavy duty bolts with adjustable foot (inner shelves-not fixed to the wall)	No	3		
<u>32mm Granite worktops and counters with polished finish mechanically fixed including any necessary mortar bedding, etc</u>					
12	750mm Wide counter top with two polished bullnosed edges	m	6		
Carried to Collection					
Section No. 3 New SNP Kitchen Bill No. 6 Carpentry and Joinery				R	

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Item No		Quantity	Rate	Amount
	<u>BILL NO 7</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
	<u>PREAMBLES</u>			
	<u>Note:</u>			
	The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	The SUPPLEMENTARY PREAMBLES applicable to the same trade in the preceding Sections, apply equally to this BILL			
	<u>(CPAP WORK GROUP NO. 128) unless otherwise stated</u>			
	<u>CEILING TIMBERS, BEADS, INSULATION, ETC</u>			
	<u>"Isotherm" thick polyester high density 7-10kg/m3 thermbonded insulation blanket</u>			
1	150mm thick insulation laid over suspended ceilings	m2	49	
	<u>SUSPENDED CEILINGS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary suspended ceilings</u>			
	Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations			
	Carried to Collection		R	
	Section No. 3 New SNP Kitchen Bill No. 7 Ceilings, Partitions and Access Flooring			

	OWAacoustic Constellation Premium Biologically absorbable mineral wool ceiling tiles, size 600 x 600 x 15mm thick with square edge and white painted finish, laid on fire rated OWAconstruct S3 exposed demountable Butt-cut T24 suspension system, with exposed faces coloured matt black. Comprising galvanised main tees and cross tees with main tees suspended by means of galvanised hangers at centres not exceeding 1200mm with ceiling perimeter finished with OWAconstruct Shadowline W-trim (elsewhere measured), plugged and screwed at 200mm centres, and all installed to manufacturer's instructions. Contact person: Clifford Bowman (031) 563 2188				
2	Ceilings suspended not exceeding 1m below timber purlins at 1200mm centres	m2	49		
3	Extra over ceiling for 600 x 600mm trap door of 38 x 114mm softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around	No	1		
	<u>Gypsum plasterboard cornices</u>				
4	75mm Coved cornices nailed to edge bandering and ceiling board	m	57		
Carried to Collection					R
Section No. 3 New SNP Kitchen Bill No. 7 Ceilings, Partitions and Access Flooring					

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Item No	Quantity	Rate	Amount
<p><u>BILL NO 8</u></p> <p><u>FLOOR COVERINGS, WALL LININGS, ETC</u></p> <p><u>PREAMBLES</u></p> <p><u>Note:</u></p> <p>The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder</p> <hr/> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>The SUPPLEMENTARY PREAMBLES applicable to the same trade in the preceding Sections, apply equally to this BILL</p> <p><u>(CPAP WORK GROUP NO. 116) unless otherwise stated</u></p> <p><u>SELF LEVELLING SCREEDS</u></p> <p><u>Laying</u></p> <p>Self-levelling screed to be laid on a dry clean surface. Screed to be laid in accordance with the manufacturer's specification with the relevant primers and bonding agents. Floor must comply with SABS 0155 1980 where no wave should exceed 3mm over a 3m span</p> <p><u>Fixing</u></p> <p>Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc</p> <p><u>FLOOR COVERINGS</u></p>			
<p>Carried to Collection</p>			<p>R</p>
<p>Section No. 3 New SNP Kitchen Bill No. 8 Floor Coverings, Wall Linings, etc.</p>			

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Item No		Quantity	Rate	Amount
	<u>BILL NO 9</u>			
	<u>IRONMONGERY</u>			
	<u>PREAMBLES</u>			
	<u>Note:</u>			
	The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	The SUPPLEMENTARY PREAMBLES applicable to the same trade in the preceding Sections, apply equally to this BILL			
	<u>(CPAP WORK GROUP NO. 132) unless otherwise stated</u>			
	<u>HINGES, BOLTS, ETC</u>			
	<u>"Union" or equal approved</u>			
1	SS 2BB BUTT HINGE EN1935GRD13 (JH-BB-STD-2-SS)	No	6	
	<u>LOCKS</u>			
	<u>"EN-SUITE" LOCKS</u>			
	The following locks are to be suitable for master key operation			
	<u>"Union" or equal approved</u>			
2	4 Lever union lock set	No	2	
	<u>LETTERS, NAMEPLATES, ETC</u>			
	Carried to Collection		R	
	Section No. 3 New SNP Kitchen Bill No. 9 Ironmongery			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 10</u>			
	<u>METALWORK</u>			
	<u>PREAMBLES</u>			
	<u>Note:</u>			
	The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	The SUPPLEMENTARY PREAMBLES applicable to the same trade in the preceding Sections, apply equally to this BILL			
	<u>(CPAP WORK GROUP NO. 136) unless otherwise stated</u>			
	<u>STEEL GATES</u>			
	<u>Gates</u>			
1	40 x 40 x 3mm Galvanised mild steel gate with mitred corners including pre-drilled holes for barrel bolt locking, including padlock, including 50 x 50 x 3mm square galvanised mild steel hollow section gate frame with mitred corners, bolted to concrete palisade posts through pre-drilled holes in steel frame, overall size 950 x 2195mm high as per gate schedule GT01	No	1	
2	Galvanised mild steel double gate with mitred corners including mentex flatex mesh welded to gate frame including 3 x 50 x 50mm square hollow section galvanised mild steel gate frame with mitred corners, bolted to concrete palisade posts through pre-drilled holes in steel frame, overall size 1700 x 2100mm high as per gate schedule GT03	No	1	
	<u>GALVANISED PRESSED STEEL DOOR FRAMES</u>			
	Carried to Collection		R	
	Section No. 3 New SNP Kitchen Bill No. 10 Metalwork			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 11</u>			
	<u>PLASTERING</u>			
	<u>PREAMBLES</u>			
	<u>Note:</u>			
	The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	The SUPPLEMENTARY PREAMBLES applicable to the same trade in the preceding Sections, apply equally to this BILL			
	<u>(CPAP WORK GROUP NO. 142) unless otherwise stated</u>			
	<u>SCREEDS</u>			
	<u>TAL Screedmaster self-levelling screed to be laid on dry clean surface including relevant primers and bonding agents all in accordance with the manufacturer's specification</u>			
1	On floors	m2	78	
	<u>GRANOLITHIC</u>			
	<u>Non-slip untinted granolithic, on concrete</u>			
2	35mm Thick on floors	m2	49	
	<u>INTERNAL PLASTER</u>			
	<u>15mm Cement plaster steel trowelled, on brickwork</u>			
3	On walls	m2	170	
	Carried to Collection			R
	Section No. 3 New SNP Kitchen Bill No. 11 Plastering			

4	On narrow widths	m2	5
Section No. 3 New SNP Kitchen Bill No. 11 Plastering		Carried to Collection	R

Hemfane Primary School Asbestos Removal Programme

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 12</u>			
	<u>TILING</u>			
	<u>PREAMBLES</u>			
	<u>Note:</u>			
	The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	The SUPPLEMENTARY PREAMBLES applicable to the same trade in the preceding Sections, apply equally to this BILL			
	<u>(CPAP WORK GROUP NO. 144) unless otherwise stated</u>			
	<u>WALL TILING</u>			
	<u>Full bodied, first grade 300 x 600mm STONEWORKS porcelain tiles in flamed finish for anti-slip applications as per "JNB CERAMICA". Colours as per architect</u>			
1	On splashbacks	m2	3	
	<u>FLOOR TILING</u>			
	<u>Full bodied first grade 300 x 600mm STONEWORKS porcelain tiles in matte finish as per "JNB Ceramica" or equal approved, fixed to floor screed (elsewhere measured) with Ceresit Tylon CM19 adhesive and flush pointed with Ceresit Tylon CE 33 waterproof grout (dark grey) with 10 year warranty</u>			
2	On floors and landings	m2	49	
3	Skirting 100mm high of cut tiles	m	57	
	Carried Forward to Summary of Section No. 3			
	Section No. 3			
	New SNP Kitchen			
	Bill No. 12			
	Tiling			

Item No	Quantity	Rate	Amount
<u>BILL NO. 13</u>			
<u>PLUMBING AND DRAINAGE</u>			
<u>(PROVISIONAL)</u>			
<u>PREAMBLES</u>			
<u>Note:</u>			
The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder			
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<u>SUPPLEMENTARY PREAMBLES</u>			
The SUPPLEMENTARY PREAMBLES applicable to the same trade in the preceding Sections, apply equally to this BILL			
<u>(CPAP WORK GROUP NO. 148) unless otherwise stated</u>			
<u>RAINWATER DISPOSAL</u>			
<u>Seamless aluminium gutters and rainwater pipes with baked enamel finish</u>			
<u>Seamless aluminium prepainted gutters and rainwater pipes</u>			
1	75 x 100mm uPVC roof gutters	m	20
2	Extra over gutter for outlet for 100 x 75mm pipe	No	2
3	Extra over gutter for stopped end	No	2
4	100 x 75mm Rainwater pipes	m	6
5	Extra over rainwater pipe for shoe	No	2
6	Extra over rainwater pipe for eaves or plinth offset	No	2
Carried to Collection			R
Section No. 3 New SNP Kitchen Bill No. 13 Plumbing and Drainage (Provisional)			

SANITARY FITTINGS

"Franke Stainless Steel" or equal approved

7	double bowl SS sink	No	1
8	Wash trough	No	3

WASTE UNIONS ETC

"Cobra Watertech" or equal approved

9	38mm sink waste union	No	5
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TRAPS ETC

PVC

"Cobra Watertech" or equal approved

10	Chrome bottle trap	No	5
11	Pot waste grease trap including all building works (concrete etc), pipes, fittings etc	No	1

TAPS, VALVES, ETC

Brass

12	Fullway isolating ball valve (code:1090-15)	No	5
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"Cobra Watertech" or equal approved

13	Cobra Carina wall mounted sink mixer with swivel outlet 266/041/10CA with S-041/10	No	4
14	Chrome plated Anti-theft plug (code:309-32)	No	5

SANITARY PLUMBING

uPVC soil and vent pipes

15	50mm Pipes	m	5
16	50mm Pipes chased into concrete or brickwork	m	2
17	110mm Pipes	m	3

Carried to Collection

Section No. 3
New SNP Kitchen
Bill No. 13
Plumbing and Drainage (Provisional)

R

	<u>Extra over uPVC soil and vent pipes for fittings</u>			
18	50mm Bend	No	3	
19	50mm Junction	No	2	
20	50mm Access bend	No	1	
21	50mm Access junction	No	1	
22	110mm Bend	No	1	
23	110mm Junction	No	1	
24	110mm Reducing junction	No	1	
25	110mm Access bend	No	1	
	<u>Testing</u>			
26	Testing waste pipe system		Item	
	<u>WATER SUPPLIES</u>			
	<u>Class 2 copper pipes with brass compression couplings</u>			
27	15mm Pipes	m	5	
28	15mm Pipes chased into brickwork or concrete	m	2	
	<u>Extra over Class 2 copper pipes for capillary fittings</u>			
29	15mm Fittings	No	5	
	<u>Extra over Class 2 copper pipes for brass compression fittings</u>			
30	15mm Fittings	No	5	
	<u>Flexible service pipes</u>			
31	15mm Service pipe 350mm girth	No	5	
	<u>Testing</u>			
32	Testing water pipe system		Item	
	<u>ELECTRIC WATER HEATERS</u>			
	Carried to Collection			R
	Section No. 3 New SNP Kitchen Bill No. 13 Plumbing and Drainage (Provisional)			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 14</u>			
	<u>GLAZING</u>			
	<u>PREAMBLES</u>			
	<u>Note:</u>			
	The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	The SUPPLEMENTARY PREAMBLES applicable to the same trade in the preceding Sections, apply equally to this BILL			
	<u>(CPAP WORK GROUP NO. 150) unless otherwise stated</u>			
	<u>GLAZING TO STEEL WITH PUTTY</u>			
	<u>6.4mm Laminated safety glass</u>			
1	Panes exceeding 0,5m ² and not exceeding 2m ²	m2	6	
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3 New SNP Kitchen Bill No. 14 Glazing			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 15</u>			
	<u>PAINTWORK</u>			
	<u>PREAMBLES</u>			
	<u>Note:</u>			
	The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	The SUPPLEMENTARY PREAMBLES applicable to the same trade in the preceding Sections, apply equally to this BILL			
	<u>(CPAP WORK GROUP NO. 152) unless otherwise stated</u>			
	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat Plascon plaster primer UC56 and two coats Double Velvet luxury wall coating paint (colour as per Architect)</u>			
1	On walls	m2	170	
	<u>ON FIBRE-CEMENT BOARD SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint</u>			
2	Fascias and barge boards, including priming metal jointing strips (Provisional)	m2	5	
	<u>ON WOOD SURFACES</u>			
	Carried to Collection		R	
	Section No. 3 New SNP Kitchen Bill No. 15 Paintwork			

<u>Three coats superior quality polyurethane suede varnish</u>					
3	Doors	m2	19		

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 1</u>			
	<u>DEMOLITIONS AND SITE CLEARANCE</u>			
	<u>PREAMBLES</u>			
	<u>Note:</u>			
	The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	The SUPPLEMENTARY PREAMBLES applicable to the same trade in the preceding Sections, apply equally to this BILL			
	<u>(CPAP WORK GROUP NO. 102) unless otherwise stated</u>			
	<u>DEMOLITIONS ETC</u>			
	<u>Breaking up, taking down and removing</u>			
1	Demolition of existing water tank stand size 2500 x 2500mm and cart away of rubble. Area to be reinstated.	No	4	
	<u>Taking down and removing</u>			
2	Steel weldmesh fence 3000mm high with timber or steel posts, standards etc and double gates	m	536	
	Carried Forward to Summary of Section No. 4		R	
	Section No. 4			
	External Works			
	Bill No. 1			
	Demolitions and Site Clearance			

Item No	Quantity	Rate	Amount
<u>BILL NO. 2</u>			
<u>ASSEMBLY AREA (PROVISIONAL)</u>			
<u>PREAMBLES</u>			
<u>Note:</u>			
The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Testing of material and filling</u>			
Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series			
<u>(CPAP WORK GROUP NO. 154) unless otherwise stated</u>			
<u>SITE CLEARANCE ETC</u>			
<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, trees not exceeding approximately 500mm girth, manhole covers and frames, stopcock boxes etc and generally grade, fill up small holes etc	m2	260
<u>Excavation in earth not exceeding 2m deep</u>			
2	Over site between buildings, etc to reduce levels and dispose in prescribed stock piles on site	m3	39
<u>Extra over excavation in earth for excavation in</u>			
3	Soft rock	m3	8
Carried to Collection			R
Section No. 4 External Works Bill No. 2 Assembly			

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4	Hard rock	m3	12		
	<u>Extra over all excavations for carting away</u>				
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	22		
	<u>Keeping excavations free of water</u>				
6	Keeping excavations free of water other than subterranean water			Item	
	<u>Earth filling of approved selected filler material supplied by the contractor, compacted to 95% Mod AASHTO density</u>				
7	to form platforms	m3	17		
	<u>Compaction of surfaces</u>				
8	Compaction of ground surfaces under roadworks etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density (Roadbed)	m2	260		
	<u>Sundries</u>				
9	Apply Bromosol or equal approved herbicide to river sand bedding under paving in strict accordance with the manufacturer's instruction	m2	260		
	<u>80mm thick 30MPa precast concrete grey interlocking block paving blocks in accordance with SANS 1058, laid to falls on and including 25mm thick sand layer with joints filled in with sand, compacted with a vibration compactor</u>				
10	Paving to roadworks and parking areas to falls	m2	260		
	<u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing</u>				
11	150 x 300mm High kerbs (SANS 927 fig 3) with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc	m	65		
Carried to Collection				R	
Section No. 4 External Works Bill No. 2 Assembly					

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 3</u>			
	<u>CONCRETE OPEN WALKWAYS, APRONS AND STAIRS</u>			
	<u>PREAMBLES</u>			
	<u>Note:</u>			
	The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder			
	<hr/>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	The SUPPLEMENTARY PREAMBLES applicable to the same trade in the preceding Sections, apply equally to this BILL			
	<u>WALKWAY</u>			
	<u>(CPAP WORK GROUP NO. 104) unless otherwise stated</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Trenches	m3	67	
2	Thickening under walkways	m3	44	
3	Thickening under Aprons	m3	85	
	<u>Extra over all excavations for carting away</u>			
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	38	
	<u>Keeping excavations free of water</u>			
5	Keeping excavations free of all water other than subterranean water	Item		
	Carried to Collection		R	
	Section No. 4			
	External Works			
	Bill No. 3			
	Walkways, Concrete Aprons and Stair Cases			

<u>FILLING, ETC:</u>					
<u>Earth filling of granular material supplied by the contractor, compacted to 95% Mod AASHTO density</u>					
6	Under floors	m3	129		
<u>Coarse river sand filling supplied by the contractor</u>					
7	Under floors etc	m3	22		
<u>Compaction of surfaces</u>					
8	Compaction of ground surface under floors etc including scarifying for a depth of 100mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	445		
<u>Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrasien 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m²</u>					
9	Under floors (Cerificate must be provided)	m2	445		
<u>CONCRETE</u>					
<u>(CPAP WORK GROUP NO. 110) unless otherwise stated</u>					
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
<u>30MPa/19mm concrete reinforced concrete cast on/in formwork</u>					
10	Walkway cast on waterproofing	m3	44		
11	Ramps	m3	13		
12	Aprons	m3	57		
<u>Finishing top surfaces of concrete smooth with a wood float to a non-slip surface</u>					
13	Walkways to falls	m2	25		
14	Concrete Aprons to falls	m2	565		
Carried to Collection				R	
Section No. 4 External Works Bill No. 3 Walkways, Concrete Aprons and Stair Cases					

FORMWORK

(CPAP WORK GROUP NO. 111) unless otherwise stated

Smooth formwork to sides

15	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	1,057
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REINFORCEMENT

(CPAP WORK GROUP NO. 114) unless otherwise stated

Fabric reinforcement

16	Type 193 fabric reinforcement in concrete aprons	m2	565
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17	Type 617 fabric reinforcement in concrete walkways	m2	445
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WATERPROOFING

(CPAP WORK GROUP NO. 120) unless otherwise stated

One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with PVC self-adhesive tape

18	Under walkways	m2	246
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19	Under Aprons	m2	565
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Carried to Collection

Section No. 4
External Works
Bill No. 3
Walkways, Concrete Aprons and Stair Cases

R

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Item No	Quantity	Rate	Amount
<u>BILL NO. 4</u>			
<u>ROADWORKS AND PARKING</u>			
<u>(PROVISIONAL)</u>			
<u>PREAMBLES</u>			
<u>Note:</u>			
The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder			
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<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Testing of material and filling</u>			
Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series			
<u>(CPAP WORK GROUP NO. 154) unless otherwise stated</u>			
<u>SITE CLEARANCE ETC</u>			
<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, trees not exceeding approximately 500mm girth, manhole covers and frames, stopcock boxes etc and generally grade, fill up small holes etc	m2	834
<u>Excavation in earth not exceeding 2m deep</u>			
2	Over site between buildings, etc to reduce levels and dispose in prescribed stock piles on site	m3	125
<u>Extra over excavation in earth for excavation in</u>			
3	Soft rock	m3	25
Carried to Collection			R
Section No. 4 External Works Bill No. 4 Roadworks and Parking			

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4	Hard rock	m3	38		
	<u>Extra over all excavations for carting away</u>				
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	13		
	<u>Keeping excavations free of water</u>				
6	Keeping excavations free of water other than subterranean water		Item		
	<u>Earth filling of approved selected filler material supplied by the contractor, compacted to 95% Mod AASHTO density</u>				
7	to form platforms	m3	28		
	<u>Compaction of surfaces</u>				
8	Compaction of ground surfaces under roadworks etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density (Roadbed)	m2	834		
	<u>Sundries</u>				
9	Apply Bromosol or equal approved herbicide to river sand bedding under paving in strict accordance with the manufacturer's instruction	m2	834		
	<u>80mm thick 30MPa precast concrete grey interlocking block paving blocks in accordance with SANS 1058, laid to falls on and including 25mm thick sand layer with joints filled in with sand, compacted with a vibration compactor</u>				
10	Paving to roadworks and parking areas to falls	m2	834		
	<u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing</u>				
11	150 x 300mm High kerbs (SANS 927 fig 3) with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc	m	341		
Carried to Collection				R	
Section No. 4 External Works Bill No. 4 Roadworks and Parking					

Hemfane Primary School Asbestos Removal Programme

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 5</u>			
	<u>STORMWATER DRAINAGE</u>			
	<u>PREAMBLES</u>			
	<u>Note:</u>			
	The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	The SUPPLEMENTARY PREAMBLES applicable to the same trade in the preceding Sections, apply equally to this BILL			
	<u>(CPAP WORK GROUP NO. 146) unless otherwise stated</u>			
	<u>CONCRETE STORMWATER CHANNELS</u>			
1	30MPa concrete open surface water channel 900mm wide x 100mm thick cast in 2m alternate panels with V-shaped channel 750mm wide x 50mm deep formed in same, including excavations, trimming and levelling of ground surfaces, imported selected fill, formwork, wood floating and type 193 fabric reinforcement etc	m	565	
2	Extra over for angles, intersections, ends, etc	No	48	
3	Extra for trapezoid open end outlet concrete spilling basin average 1200mm wide x 1500mm long x 150mm thick with and including approximately twelve face bricks bedded 40mm proud in concrete	No	7	
	Carried Forward to Summary of Section No. 4		R	
	Section No. 4			
	External Works			
	Bill No. 5			
	Stormwater Drainage			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u>			
	<u>SEWER RETICULATION</u>			
	<u>PREAMBLES</u>			
	<u>Note:</u>			
	The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder			
	<hr/>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	The SUPPLEMENTARY PREAMBLES applicable to the same trade in the preceding Sections, apply equally to this BILL			
	<u>(CPAP WORK GROUP NO. 146) unless otherwise stated</u>			
	<u>SOIL DRAINAGE</u>			
	<u>Earth filling obtained from the excavations on site, compacted in layers to 90% Mod AASHTO density</u>			
1	Backfilling to pipe trenches	m3	140	
2	40-75mm Crushed stone bedding under pipes	m3	13	
	<u>Normal duty (Class 51) PVC-U sewer and drain pipes</u>			
3	110mm pipes laid in and including trenches exceeding 1m and not exceeding 1.5m deep	m	178	
4	110mm Slotted pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	27	
5	"Kaymat" or equal approved U14 geofabric filter blanket wrapped around 110mm external diameter Upvc slotted pipes with 250mm side and 300mm end laps, including stitching	m	27	
	Carried to Collection			
			R	
	Section No. 4			
	External Works			
	Bill No. 6			
	Soil Drainage			

Hemfane Primary School Asbestos Removal Programme

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Item No	Quantity	Rate	Amount
<u>BILL NO. 7</u>			
<u>WATER TANKS</u>			
<u>PREAMBLES</u>			
<u>Note:</u>			
The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder			
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<u>SUPPLEMENTARY PREAMBLES</u>			
The SUPPLEMENTARY PREAMBLES applicable to the same trade in the preceding Sections, apply equally to this BILL			
<u>(CPAP WORK GROUP NO. 104) unless otherwise stated</u>			
<u>EXCAVATION, FILLING, ETC</u>			
<u>Excavate in earth not exceeding 2m deep.</u>			
1	Trenches	m3	152
	<u>Extra over trench and hole excavations in earth for excavating in</u>		
2	Soft rock	m3	3
3	Hard rock	m3	3
	<u>Extra over all excavations for carting away</u>		
4	Surplus material from excavations and/or stockpiles on site, to a dumping site to be located by the contractor	m3	42
Carried to Collection			R
Section No. 4 External Works Bill No. 7 Water Tanks			

	<u>Risk of collapse of excavations</u>				
5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	190		
	<u>Keeping excavations free of water</u>				
6	Keeping excavations free of all water other than subterranean water		Item		
	<u>Earth filling of excavated material</u>				
7	Backfilling to bases, trenches, holes, etc	m3	49		
	<u>Earth filling of G5 material supplied by the contractor, compacted in 150mm layers to 93% MOD AASHTO density</u>				
8	Under paving, concrete surface beds etc	m3	96		
	<u>Coarse sand or selected soil supplied by contractor compacted to 95% MOD AASHTO density</u>				
9	30mm thick Bedding Sand	m3	2		
	<u>Filling supplied by the contractor under parking areas, roadways, etc</u>				
10	150mm Insitu material rip and compacted to 93% MOD AASHTO	m3	24		
	<u>ADDITIONAL TEST REQUIRED</u>				
11	Modified AASHTO Density test	No	14		
	<u>SOIL POISONING</u>				
	<u>Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrasiens 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m2</u>				
12	In trenches, under slab etc.	m2	88		
	<u>CONCRETE, FORMWORKAND REINFORCEMENT</u>				
Carried to Collection				R	
Section No. 4 External Works Bill No. 7 Water Tanks					

(CPAP) WORK GROUP NO. 110) unless otherwise stated

For Preambles refer to the Standard Preambles to All Trades - WB20 - and the Supplementary Preambles SUP1 to SUP5 and any amplification/s stated hereunder

SUPPLEMENTARY PREAMBLES

REINFORCED CONCRETE

30MPa/19mm concrete

13	Trenches	m3	17
14	Slab	m3	13

TEST CUBES

15	Making and testing 150 x 150 x 150mm concrete strength test cubes in sets as instructed by Engineer (Provisional)	No	14
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REINFORCEMENT

(CPAP WORK GROUP NO. 114) unless otherwise stated

Mild steel reinforcement to structural concrete work

16	Various diameter bars	t	1.625
	<u>Fabric reinforcement</u>		
17	Type 617 mesh reinforcement vertically in cavity of brickwalls	m2	88

(CPAP) WORK GROUP NO. 116) unless otherwise stated

BRICKWORK

18	One brick walls of two half brick skins with inner skin bagged and sealed	m2	196
19	150mm Wide reinforcement built in horizontally	m	784

Carried to Collection

Section No. 4
External Works
Bill No. 7
Water Tanks

R

FACE BRICKWORK

20	Extra over brickwork for face brickwork	m2	213
21	Fair raking cutting	m	190

PLUMBING AND DRAINAGE

"ALCO" OR similar approved

22	5000 Litre Polyethylene circular water tank with openings for overflow and 75 x 100mm inlet for rainwater pipes and outlet union for and including 15mm cobra demand bibtap KM2.203-15, including hoop iron strap cast 500mm into RC slab on either side	No	14
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**WATER CONNECTIONS FROM MAIN
RETICULATION LINE TO BUILDINGS**

"Polycop" polypropylene pipes with "Fast-fuse" thermoplastic couplings

23	22mm Pipes laid in and including trenches not exceeding 1m deep	m	30
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24	28mm Pipes laid in and including trenches not exceeding 1m deep	m	25
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Extra over "Polycop" polypropylene pipes for brass compression fittings

25	22mm Fittings	No	13
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26	28mm Fittings	No	11
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TAPS, VALVES, ETC

"Cobra Watertech" or equal approved

27	30mm 1065-30CP fullway gate valve	No	2
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28	35mm 1065-35CP fullway gate valve	No	2
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"Tommy Tap" or equal approved

29	20mm Plastic tap	No	14
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Carried to Collection

R

Section No. 4
External Works
Bill No. 7
Water Tanks

30	<u>Testing</u>	Item			
	Testing domestic water pipe system				
Carried to Collection			R		
Section No. 4 External Works Bill No. 7 Water Tanks					

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Item No	Quantity	Rate	Amount
<u>BILL NO 8</u>			
<u>FENCING AND GATES</u>			
<u>PREAMBLES FOR TRADES</u>			
<p>The General Preambles for Trades 2017 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 General Preambles will be entertained</p> <p>Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles</p> <p>The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications</p>			
<u>FENCING</u>			
<u>High Security approved smartfence with PVC anthracite coating</u>			
1	Fence 2100mm high of Smart Fence PVC coated anthracite and including smartHT posts 2700mm long PVC coated anthracite including all accessories	m	536
2	Gate 6000mm x 2100mm high double leaf swing gate with smartfence mesh infill PVC coated anthracite panels, including hinges, spring latch with catch, etc	No	1
Carried Forward to Summary of Section No. 4			R
Section No. 4 External Works Bill No. 8 Fencing and Gates			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 1</u>			
	<u>PROVISIONAL SUMS</u>			
	<u>PREAMBLES</u>			
	<u>Note:</u>			
	The Contractor is referred to the relevant Clauses in the separate document Specifications of Materials and Methods to be Used (PW 371) Fourth Revision October 1993 and the Supplementary Preambles and any amplification/s stated hereunder			
	<hr/>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>General</u>			
	Prime cost amounts and provisional sums are net. Prime cost amounts include for delivery to site of all articles concerned			
	Provisional sums are for material and equipment supplied and installed complete by firms of specialists			
	<u>Profit</u>			
	Where stated, the contractor may allow for profit if required			
	<u>General attendance on nominated/selected subcontractors</u>			
	The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:			
	1 The services as set out in clause B9.1 of the Preliminaries			
	2 Making good in all trades and cleaning down and removal of rubbish on completion			
	 Carried to Collection			
	Section No. 5 Provisional Sums Bill No. 1 Provisional Sums		R	

DECANTING

1 Provide the sum of R238,050.00 Two Hundred and Thirty Eight Thousand and Fifty Rand for the decanting relating but limited to temporary ablutions, temporary classrooms including power, fixed hoarding, dust proofing control etc.

Item

2 Profit

%

3 Attendance

%

DE-SLUDGE OF EXISTING PITS TO TOILETS

4 Provide the sum of R61,500.00 Sixty One Thousand Five Hundred Rand for the de-sludging of the existing ablation pits

Item

5 Profit

%

6 Attendance

%

RETAINING STRUCTURES

7 Provide the sum of R95,880.00 Ninety Five Thousand Eight Hundred and Eighty Rand for the construction of retaining structures

Item

8 Profit

%

9 Attendance

%

CLO

10 Provide the sum of R100,000.00 One Hundred Thousand Rands for the CLO

Item

11 Profit

%

12 Attendance

%

**ELECTRICAL INSTALLATIONS AND
RETICULATION**

13 Provide the sum of R1,266,000.00 One Million Two Hundred and Sixty Six Thousand Rand for electrical installations and reticulation

Item

Carried to Collection

R

Section No. 5
Provisional Sums
Bill No. 1
Provisional Sums

**Hemfane Primary School
Asbestos Removal Programme**

14	Profit			%	
15	Attendance			%	
<u>RE-LOCATION OF EXISTING PLAY AREA</u>					
16	Provide the sum of R50,000.00 Fifty Thousand Rand for the re-location of the existing Grade R play area	Item			
17	Profit			%	
18	Attendance			%	
<u>ASBESTOS INSPECTION AUTHORITY (AIA)</u>					
19	Provide the sum of R70,000.00 Seventy Thousand Rand for inspection, sampling, testing and reporting relative to the removal of asbestos in strictly accordance with the Asbestos Abatement Regulations 2020 and Occupational Health and Safety Act (Act 85 of 1993)	Item			
20	Profit			%	
21	Attendance			%	
Carried to Collection				R	
Section No. 5 Provisional Sums Bill No. 1 Provisional Sums					

Hemfane Primary School Asbestos Removal Programme

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Hemfane Primary School Asbestos Removal Programme

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