

Item No	Quantity	Rate	Amount
<u>SECTION NO. 1</u>			
<u>BILL NO. 1</u>			
<u>PRELIMINARIES</u>			
<u>BUILDING AGREEMENT AND PRELIMINARIES</u>			
The JBCC Series 2000 Principal Building Agreement (Edition 6.2 July 2018) prepared by the Joint Building Contracts Committee, shall be the agreement, amended as hereinafter described The Preliminaries for use with the JBCC Series 2000 Principal Building Agreement (Edition 6.2 May 2018) prepared by the Joint Building Contracts Committee, shall be deemed to be incorporated in these bills of quantities Contractors are referred to the above-mentioned documents for the full intent and meaning of each clause thereof These clauses are hereinafter referred to by clause number and heading only. 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 and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the above-mentioned documents Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable" Notwithstanding anything to the contrary contained in any of the contract documents including the Principal Building Agreement and the Preliminaries, the provision of the "Preliminaries" as hereinafter set forth shall prevail and shall take precedence			
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Section 1 Bill No. 1 Preliminaries Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

PREAMBLES FOR TRADES

The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained

Supplementary preambles to the Model Preambles covering clauses of a general nature, clauses pertaining to specific materials and amendments to clauses in the Model Preambles are incorporated in these bills of quantities to satisfy the requirements of this project

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

GENERAL

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 "**F**", "**T**" or "**V**" as the case may be below such item, where "**F**" denotes a fixed amount (amount not to be varied), "**T**" denotes an amount variable in proportion to time and "**V**" denotes an amount variable in proportion to value

SECTION A - PRINCIPAL BUILDING AGREEMENT**Definitions (A1)****Objective and Preparation (A2 to A14)**

1 Offer acceptance and performance (clause 2) F:..... V:.....
T:.....

Item

2 Documents (clause 3) F:.....
V:..... T:.....

Item

3 Design responsibility (clause 4) F:.....
V:..... T:.....

Item

Carried to Collection

R

Section 1

Bill No. 1

Preliminaries

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

4	Employer's agents (clause 5)F:..... V:..... T:..... The principal agent shall: - monitor and control progress and scheduling - monitor all contract conditions, and - coordinate the efforts of the employer's agents, the contractor and subcontractors The powers conferred on the principal agent in terms of this clause and/or the exercising of these powers shall not be construed as removing or diminishing any of the obligations of the Contractor in terms of the Principal Building Agreement, whether financial, contractual or otherwise, nor shall the exercising of these powers create any privity of contract as between the Employer or his agents on the one part and the Contractor or subcontractors or suppliers on the other part The principal agent reserves the right to attend and participate in all contractor/subcontractor's meetings, to invite other employer's agents to attend such meetings at his discretion and to converse and chair any such meetings if the contractor is derelict in his duty in arranging such meetings to the degree of frequency and comprehensiveness dictated in the opinion of the project manager by the circumstances and exigencies of the construction process	Item		
5	Site representative (clause 6)F:..... V:..... T:.....	Item		
6	Compliance with regulations (clause 7)F:..... V:..... T:..... Note: A separate clause has been included in Section C: Specific Preliminaries of the bills of quantities for the contractor to have the opportunity to price for the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification	Item		
7	Works risk (clause 8)F:..... V:..... T:.....	Item		
Carried to Collection			R	
Section 1 Bill No. 1 Preliminaries Completion of Ethandakukhanya Community Health Centre Mpumalanga Province				

8	Indemnities (clause 9)F:..... V:..... T:.....	Item		
9	Works insurances (clause 10) F:..... V:..... T:.....	Item		
10	Liability insurances (clause 11)F:..... V:..... T:.....	Item		
11	Effecting insurance (clause 12)F:..... V:..... T:.....	Item		
12	NO CLAUSE	N/A		
13	Security (clause 14)F:..... V:..... T:..... Refer to Contract Data. <u>Execution (A15-A23)</u>	Item		
14	Preparation for and execution of the works (clause 15) F:..... V:..... T:..... With the priced bills of quantities, the contractor shall submit an acceptable health and safety plan within 14 calendar days of the date of acceptance of the tender.	Item		
15	Access to the works (clause 16)F:..... V:..... T:.....	Item		
16	Contract instructions (clause 17)F:..... V:..... T:.....	Item		
17	Setting out of the works (clause 18)F:..... V:..... T:..... The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc exist in order that the necessary arrangements may be made for the rectification of any such encroachments	Item		
Carried to Collection			R	
Section 1 Bill No. 1 Preliminaries Completion of Ethandakukhanya Community Health Centre Mpumalanga Province				

18	Assignment (clause 19)F:..... V:..... T:.....	Item		
	The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer			
19	Nominated subcontractors (clause 20)F:..... V:..... T:.....	Item		
	Written proof is required from subcontract tenderers at tendering that they can meet the JBCC Nominated Subcontract Agreement or other tender agreements and provide security in terms of the agreement. If the above is not provided the tender may not be accepted			
	All amounts allowed under Provisional Amounts are intended to be awarded to Nominated Subcontractors			
20	Selected subcontractors (clause 21)F:..... V:..... T:.....	Item		
21	Employer's Direct Contractors (clause 22) F:..... V:..... T:.....	Item		
22	Contractor's Domestic Sub-Contractors (Clause 23) F:..... V:..... T:.....			
	The Contractor is referred to the Specific Preliminaries below for the mandatory Sub-Contracting requirements of this contract	Item		
	<u>Completion (A24-A30)</u>			
23	Practical completion (clause 24)F:..... V:..... T:.....	Item		
24	Works completion (clause 25)F:..... V:..... T:.....	Item		
25	Final completion (clause 26)F:..... V:..... T:.....	Item		
Carried to Collection			R	
Section 1 Bill No. 1 Preliminaries Completion of Ethandakukhanya Community Health Centre Mpumalanga Province				

26	Latent defects liability period (clause 27)F:..... V:..... T:.....	Item		
27	Sectional completion (clause 28)F:..... V:..... T:.....	Item		
28	Revision of date of practical completion (clause 29)F:..... V:..... T:.....	Item		
	The removal and replacement of materials and/or workmanship that do not conform to specification or drawings shall not constitute grounds for an extension of the construction period nor for an adjustment to the contract sum (clause 29.3)			
29	Penalty for non-completion (clause 30)F:..... V:..... T:.....	Item		
	<u>Payment (A31 - A35)</u>			
30	Interim payment to the contractor (clause 31)F:..... V:..... T:.....	Item		
31	Adjustment to the contract value (clause 32)F:..... V:..... T:.....	Item		
	Where prices are submitted by the contractor or nominated/selected subcontractors during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing			
32	Recovery of expense and loss (clause 33)F:..... V:..... T:.....	Item		
33	Final account and final payment (clause 34)F:..... V:..... T:.....	Item		
Carried to Collection			R	
Section 1 Bill No. 1 Preliminaries Completion of Ethandakukhanya Community Health Centre Mpumalanga Province				

The employer shall not pay any interest on amounts payable to the contractor for one hundred and forty two (142) days after the date of issue of the certificate of practical completion

The employer shall, however, pay interest to the contractor at the rate stipulated in clause 34.11 on any amounts payable to the contractor more than one hundred and forty two (142) days after the date of issue of the certificate of practical completion but only for such period as the settlement of the final account is delayed by the non-performance of the principal agent or the employer or his agents. In evaluating non-performance for purposes of this clause a reasonable time shall be allowed to the employer or his agents to respond to any matter brought to his/their attention and which may affect the settlement of the final account

34 Payment to other parties (clause 35)

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

Item

Cancellation (A36-A39)

35 Cancellation by employer - contractor's default (clause 36)

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

Item

36 Cancellation by employer - loss and damage (clause 37)

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

Item

37 Cancellation by contractor - employer's default (clause 38)

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

Item

38 Cancellation - cessation of the works (clause 39)

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

Item

Dispute (A40)

39 Dispute Settlement (clause 40)

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

Item

Carried to Collection

R

Section 1

Bill No. 1

Preliminaries

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Substitute Provisions (A41)

40 State clauses (Clause 41)

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

Item

THE SCHEDULE

Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder

41 Pre-tender information (clause 42)

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

Item

42.1 CONTRACTING AND OTHER PARTIES

42.1.1

Employer:

National Department of Health

Pretoria

South Africa

42.2 CONTRACT DETAILS

42.2.1 Works Description:

The Works comprises the completion of the new community health clinic and 2 x 2 staff bedroom accommodation as well as related services in accordance with the drawings and specifications that will be provided to the contractor.

42.2.2 Site Description:

Latitude S 27 01'38.87"
Longitude E 30 46'40.29"
Elevation 4146 ft

Carried to Collection

R

Section 1

Bill No. 1

Preliminaries

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

42.2.3 Work or installations by direct contractors:

N/A

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

Yes

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

To be advised

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

10 *working days*

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

8 months after contractual commencement date *Date*

Penalty Amount

The **penalty** per **calendar day** is 0.04% of the contract sum excluding VAT

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

Section 1

.N/A..... *Date*

R.N/A..... *Penalty Amount*

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

South Africa (country)

Carried to Collection

Section 1

Bill No. 1

Preliminaries

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

42.3 INSURANCES

42.3.1 Contract works insurance to be effected by:

Contractor:

Contract works insurance is to be effected by the **contractor** for a sum not less than the R220,000,000.00 (Two hundred and twenty million rand) with a deductible in an amount that the **Principal Agent** deems appropriate.

42.3.2 Supplementary insurance is required

Yes

42.3.3 Public liability insurance to be effected by:

Contractor:

Public liability insurance to be effected by the **contractor** for the sum of R10 000,000.00 with a deductible in an amount determined by the contractor's insurance company

42.4 DOCUMENTS

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

Yes

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

3 *Number of*

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

"Standard System of Measuring Builders' Work"

42.4.4 On acceptance of the tender the bills of quantities is to be submitted with the tender.

Carried to Collection

R

Section 1

Bill No. 1

Preliminaries

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

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

No

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

No

Where **JBCC CPAP** is to be used

Base Month N/A

42.4.7 Details of changes made to the provision of JBCC standard documentation: See contract data which forms part of this document

SECTION B: PRELIMINARIES

Definitions and interpretation (B1)

42 Definition and interpretation (B1.1 - B1.4.6)

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

Item

Documents (B2)

43 Checking of documents (B2.1)F:.....
V:..... T:.....

Item

44 Provisional bills of quantities (B2.2)F:.....
V:..... T:.....

N/A

45 Availability of construction documentation (B2.3)

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

Item

46 Interests of agents (B2.4)F:.....
V:..... T:.....

Item

47 Priced documents (B2.5)F:.....
V:..... T:.....

Item

48 Tender submission (B2.6)F:.....
V:..... T:.....

Item

Carried to Collection

R

Section 1

Bill No. 1

Preliminaries

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

	<u>The site (B3)</u>			
49	Defined works area (B3.1)F:..... V:..... T:.....	Item		
50	Geotechnical investigation (B3.2)F:..... V:..... T:.....	Item		
51	Inspection of the site (B3.3)F:..... V:..... T:.....	Item		
52	Existing premises occupied (B3.4)F:..... V:..... T:.....	Item		
53	Previous work - dimensional accuracy (B3.5)F:..... V:..... T:.....	Item		
54	Previous work - defects (B3.6)F:..... V:..... T:.....	Item		
55	Services - known (B3.7)F:..... V:..... T:.....	Item		
56	Services - unknown (B3.8)F:..... V:..... T:.....	Item		
57	Protection of trees etc (B3.9)F:..... V:..... T:.....	Item		
58	Articles of value (B3.10)F:..... V:..... T:.....	Item		
59	Inspection of adjoining properties etc (B3.11)F:..... V:..... T:.....	Item		
	<u>Management of contract (B4)</u>			
60	Management of the works (B4.1)F:..... V:..... T:.....	Item		
61	Programme for the works (B4.2) F:..... V:..... T:.....	Item		
	Carried to Collection		R	
	Section 1 Bill No. 1 Preliminaries Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

62	Progress meetings (B4.3)F:..... V:..... T:.....	Item		
63	Technical meetings (B4.4)F:..... V:..... T:.....	Item		
64	Labour and Plant records (B4.5) F:..... V:..... T:.....	Item		
	<u>Samples, Shop Drawings and Manufacturer's Instructions (B5)</u>			
65	Samples of materials (B5.1)F:..... V:..... T:.....	Item		
66	Workmanship samples (B5.2)F:..... V:..... T:.....	Item		
67	Shop drawings (B5.3) F:..... V:..... T:.....	Item		
68	Compliance with Manufacturer's Instructions (B5.4) F:..... V:..... T:.....	Item		
	<u>Temporary works and plant (B6)</u>			
69	Deposits and fees (B6.1)F:..... V:..... T:.....	Item		
70	Enclosure of the works (B6.2)F:..... V:..... T:.....	Item		
71	Advertising (B6.3)F:..... V:..... T:.....	Item		
72	Plant, equipment, sheds and offices (B6.4)F:..... V:..... T:.....	Item		
73	Main notice board (B6.5)F:..... V:..... T:.....	Item		
Carried to Collection			R	
Section 1 Bill No. 1 Preliminaries Completion of Ethandakukhanya Community Health Centre Mpumalanga Province				

74	Subcontractors' notice board (B6.6) F:..... V:..... T:.....	Item		
	<u>Temporary services (B7)</u>			
75	Location (B7.1)F:..... V:..... T:.....	Item		
76	Water (B7.2) Option [A] shall apply F:..... V:..... T:.....	Item		
77	Electricity (B7.3) Option [A] shall apply F:..... V:..... T:.....	Item		
78	Telecommunication facilities (B7.4) F:..... V:..... T:.....	Item		
79	Ablution facilities (B7.5) Option [A] shall apply F:..... V:..... T:.....	Item		
	<u>Prime cost amounts (B8)</u>			
80	Responsibility for prime cost amounts (B8.1)F:..... V:..... T:.....	Item		
	<u>Attendance on N/S Subcontractors (B9)</u>			
81	General attendance (B9.1)F:..... V:..... T:.....	Item		
82	Special attendance (B9.2)F:..... V:..... T:.....	Item		
	Carried to Collection		R	
	Section 1 Bill No. 1 Preliminaries Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

83	Commissioning - Fuel, water and power (B9.3)F:..... V:..... T:.....	Item		
	<u>Financial aspects (B10)</u>			
	Statutory taxes, duties and levies (B10.1)F:..... V:..... T:.....	Item		
84	Payment of preliminaries (B10.2) Option [] shall apply			
	F:..... V:..... T:.....	Item		
85	Adjustment of preliminaries (B10.3) Option [] shall apply			
	F:..... V:..... T:.....	Item		
86	Payment certificate cash flow (B10.4)F:..... V:..... T:.....	Item		
	<u>General (B11)</u>			
87	Protection of works (B11.1)F:..... V:..... T:.....	Item		
88	Protection/isolation of existing/sectionally occupied works (B11.2)F:..... V:..... T:.....	Item		
89	Security of the Works (B11.3) F:..... V:..... T:.....	Item		
90	Notice before covering work (B11.4)F:..... V:..... T:.....	Item		
91	Disturbance (B11.5) F:..... V:..... T:.....	Item		
Carried to Collection			R	
Section 1 Bill No. 1 Preliminaries Completion of Ethandakukhanya Community Health Centre Mpumalanga Province				

92	Environmental Disturbance (B11.6) F:..... V:..... T:.....	Item		
93	Works cleaning and clearing (B11.7) F:..... V:..... T:.....	Item		
94	Vermin (B11.8) F:..... V:..... T:.....	Item		
95	Overhand work (B11.9) F:..... V:..... T:.....	Item		
96	Instruction manuals and guarantees (B11.10) F:..... V:..... T:.....	Item		
97	As built information (B11.11) F:..... V:..... T:.....	Item		
98	Tenant Installations (B11.12) F:..... V:..... T:..... <u>Schedule of variables (B12)</u>	Item		
99	Pre-tender information (B12.1)F:..... V:..... T:..... 12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional: yes 12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete yes	Item		
Carried to Collection			R	
Section 1 Bill No. 1 Preliminaries Completion of Ethandakukhanya Community Health Centre Mpumalanga Province				

[illegible]

[illegible]

Post tender information (B12.2)

12.2.1 Payment of preliminaries
Alternative selected: A

12.2.2 Adjustment of preliminaries
Alternative selected: A

12.2.3 Additional agreed preliminaries items
N/A

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

100 C1: Black economic empowerment and training

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

Item

101 C2: Proprietary branded products

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

Item

The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative

102 C3: Contract instructions

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

Item

Contract instructions issued on site are to be recorded in triplicate in a contract instruction book which is to be supplied and maintained on site by the contractor

Carried to Collection

R

Section 1

Bill No. 1

Preliminaries

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

103	C4: Labour record F:..... V:..... T:..... At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and descriptions of tradesmen and labourers employed by him and all subcontractors on the works each day of that week	Item		
104	C5: Plant record F:..... V:..... T:..... At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools used on the works each day of that week	Item		
105	C6: Guarantees F:..... V:..... T:.....	Item		
Carried to Collection			R	
Section 1 Bill No. 1 Preliminaries Completion of Ethandakukhanya Community Health Centre Mpumalanga Province				

Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor. The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement

106 C7: Overtime

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

Item

Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer

107 C8: Co-operation of contractor for cost management

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

Item

Carried to Collection

R

Section 1

Bill No. 1

Preliminaries

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

108	It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The quantity surveyor undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor will attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures in regard to all subcontractors C9: Occupational Health and Safety Specification F:..... V:..... T:.....	Item		R
Section 1 Bill No. 1 Preliminaries Completion of Ethandakukhanya Community Health Centre Mpumalanga Province		Carried to Collection		

The contractor shall comply with all the requirements set out in the Construction Regulations 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993).

It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document.

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

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

- 109 Allow for the compulsory equipment and clothing, ie hats, safety shoes, safety clothing, safety glasses, safety masks, harnesses, etc

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

Item

- 110 Allow for all compulsory health and safety posters, boards, etc

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

Item

Carried to Collection

R

Section 1

Bill No. 1

Preliminaries

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

111	Allow for all compulsory health and safety workshops, meetings, lectures, demonstrations, etc				
	F:..... V:..... T:.....	Item			
112	Allow for all compulsory health and safety pamphlets, cards, paperwork, etc to each worker, consultant, public individual, etc coming onto the site				
	F:..... V:..... T:.....	Item			
113	Allow for compulsory health and safety files that must be completed daily and must be handed to the employer on completion of the contract				
	F:..... V:..... T:.....	Item			
114	Scope of Application as per Act No 85 of 1993				
	F:..... V:..... T:.....	Item			
115	Notification of Construction Work as per Act No 85 of 1993				
	F:..... V:..... T:.....	Item			
116	Employer's responsibilities as per Act No 85 of 1993				
	F:..... V:..... T:.....	Item			
Carried to Collection				R	
Section 1 Bill No. 1 Preliminaries Completion of Ethandakukhanya Community Health Centre Mpumalanga Province					

117	Principal Contractor's responsibility as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
118	Supervision of construction work as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
119	Risk assessment as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
120	Fall protection as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
121	Structures Formwork and Support as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
122	Excavation as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
Carried to Collection			R	
Section 1 Bill No. 1 Preliminaries Completion of Ethandakukhanya Community Health Centre Mpumalanga Province				

123	Demolotion work as per Act No 85 of 1993				
	F:..... V:..... T:.....				
		Item			
124	Tunnelling as per Act No 85 of 1993				
	F:..... V:..... T:.....				
		Item			
125	Scaffolding as per Act No 85 of 1993				
	F:..... V:..... T:.....				
		Item			
126	Suspended platforms as per Act No 85 of 1993				
	F:..... V:..... T:.....				
		Item			
127	Botswains chairs as per Act No 85 of 1993				
	F:..... V:..... T:.....				
		Item			
128	Materials hoists as per Act No 85 of 1993				
	F:..... V:..... T:.....				
		Item			
Carried to Collection				R	
Section 1					
Bill No. 1					
Preliminaries					
Completion of Ethandakukhanya Community Health Centre					
Mpumalanga Province					

129	Batch plant as per Act No 85 of 1993				
	F:..... V:..... T:.....				
		Item			
130	Explosive powered tools as per Act No 85 of 1993				
	F:..... V:..... T:.....				
		Item			
131	Cranes as per Act No 85 of 1993				
	F:..... V:..... T:.....				
		Item			
132	Construction vehicles and mobile plant as per Act No 85 of 1993				
	F:..... V:..... T:.....				
		Item			
133	Electrical installations and machinery on construction sites as per Act No 85 of 1993				
	F:..... V:..... T:.....				
		Item			
Carried to Collection				R	
Section 1					
Bill No. 1					
Preliminaries					
Completion of Ethandakukhanya Community Health Centre					
Mpumalanga Province					

134	Use and temporary storage of flammable liquids on construction sites as per Act No 85 of 1993				
	F:..... V:..... T:.....				
		Item			
135	Water environments as per Act No 85 of 1993				
	F:..... V:..... T:.....				
		Item			
136	Housekeeping on construction sites as per Act No 85 of 1993				
	F:..... V:..... T:.....				
		Item			
137	Stacking and storage on construction sites as per Act No 85 of 1993				
	F:..... V:..... T:.....				
		Item			
138	Fire precautions as per Act No 85 of 1993				
	F:..... V:..... T:.....				
		Item			
Carried to Collection				R	
Section 1					
Bill No. 1					
Preliminaries					
Completion of Ethandakukhanya Community Health Centre					
Mpumalanga Province					

139	Construction welfare as per Act No 85 of 1993			
	F:..... V:..... T:.....			
		Item		
140	Approved inspection Authorities as per Act No 85 of 1993			
	F:..... V:..... T:.....			
		Item		
141	Offences and penalties as per Act No 85 of 1993			
	F:..... V:..... T:.....			
		Item		
142	Repeal of regulations as per Act No 85 of 1993			
	F:..... V:..... T:.....			
		Item		
143	Short title as per Act No 85 of 1993			
	F:..... V:..... T:.....			
		Item		
144	C10: Obligatory Sub-contracting and Training (Clause A2, A3 and A4 of the additions to the JBCC Principal Agreement)			
	F:..... V:..... T:.....			
		Item		
Carried to Collection			R	
Section 1				
Bill No. 1				
Preliminaries				
Completion of Ethandakukhanya Community Health Centre				
Mpumalanga Province				

	The Contractor to take note that these will be Domestic Sub-contractors and will be appointed after the award of the contract			
145	C11: Expanded Public Works Programme (Clause A6 of the additions to the JBCC Principal Agreement) F:..... V:..... T:..... The Contractor shall study the guidelines for the implementation of labour-intensive infrastructure projects under the Expanded Public Works Programme (EPWP) attached to this document. The Contractor shall employ staff which satisfy the EPWP requirements as stipulated in this Contract. The Contractor shall take note of the requirements and inform all selected and or other sub-contractors, as no claim afterwards will be entertained	Item		
146	C11.1 Local and targeted labour F:..... V:..... T:.....	Item		
147	Allow for regular submission of proof of employment of local skilled and unskilled labour to Employer's representative F:..... V:..... T:.....	Item		
148	Training allowance paid to targeted labour in respect of formal training. F:..... V:..... T:.....	Item		
Carried to Collection Section 1 Bill No. 1 Preliminaries Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			R	

149	Extra over for the administration of payment of training allowances to targeted labour F:..... V:..... T:.....	Item		
150	Transport and accommodation of workers for training where it is not possible to undertake the training in close proximity to the site F:..... V:..... T:.....	Item		
151	C12: Contract drawings F:..... V:..... T:..... The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent	Item		
152	C13: General preambles F:..... V:..... T:..... The document "Specifications of Materials and Methods to be used (PW371)" is obtainable on request from the head office and all regional offices of the Department, and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used	Item		
Carried to Collection			R	
Section 1 Bill No. 1 Preliminaries Completion of Ethandakukhanya Community Health Centre Mpumalanga Province				

153 C14: Trade names

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

Item

Wherever a trade name form any product has been described in the bills of quantities / lump sum document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders

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

Carried to Collection

R

Section 1

Bill No. 1

Preliminaries

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Section 1

Bill No. 1

Preliminaries

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

Carried Forward

R

Section 1

Bill No. 1

Preliminaries

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Section 1

Bill No. 1

Preliminaries

COLLECTION**Page
No****Amount****Brought Forward**

R

Total Brought Forward from Page No.

21

22

23

24

25

26

27

28

29

30

31

32

Carried to Final Summary

R

Section 1

Bill No. 1

Preliminaries

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 1</u>			
<u>ALTERATIONS</u>			
NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill.			
NOTE: Unless otherwise stated herein, all items in this Bill shall be deemed to be a fixed price for the duration of this project			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>View site</u>			
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 completed. 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			
<u>Explosives</u>			
No explosives whatsoever may be used for demolition purposes unless otherwise stated			
<u>General</u>			
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			
Carried to Collection			R
Section 2 Bill No. 1 Alterations Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

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 re-fixing including taking off, easing and re-hanging, 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, granolith, 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.)

CLEANING OF INTERNAL SURFACES

Carried to Collection

Section 2
Bill No. 1
Alterations

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

Scope of work for pre construction cleaning

- 1 This section covers the cleaning of all internal surfaces within the works, including floors, walls, fittings, and fixtures, to achieve a complete and presentable finish prior to commencements of any construction work. These same scope of work will be carried out on completion of the construction work to ensure required finish and hygiene level as a priority for a building that is designed for the purpose of professional health care services.

Item

General Requirements

- 2 Cleaning shall be carried out by competent personnel using suitable equipment, non-abrasive materials and detergents approved by the Principal Agent. Protect all finishes during cleaning to prevent scratching, staining, or other damages. Dispose of all debris, waste water and residues off site in compliance with environmental regulations. On completion, all internal surfaces shall present a clean, hygienic and finished appearance, free from dust, stains, and construction residues.

Item

Internal surfaces shall be thoroughly cleaned prior to commencement of any workFloors

- 3 Sweep and vacuum to remove all dust, grit, loose debris and dead birds. Mop using an approved neutral detergent suitable for the floor finish (tiles, vinyl, concrete, paving and timber). For tiled surfaces scrub joints to remove excess grout, stains, or construction residue. Ensure that all surfaces are left dry, streak-free, and slip resistant.

Item

Walls and ceilings

- 4 Wipe down painted or plastered surfaces with a damp, lint-free cloth to remove dust and marks. Special care shall be taken to avoid damage to paintwork or finishes. Remove any cobwebs or insect marks, particularly near the ceiling junctions and corners.

Item

Carried to Collection

R

Section 2

Bill No. 1

Alterations

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

<u>Doors, Frames, and Windows</u>				
5	Clean all door surfaces, frames and ironmongery with an appropriate cleaning agent. Wash and polish glass surfaces and windowpanes to a streak-free finish. Dist and wipe down window sills and reveals.	Item		
<u>Fixtures, Fittings, and Joinery</u>				
6	Dust and clean shelves, cupboards, counters, skirtings, and cornices. Polish metallic and veneer surfaces and hardware as required. Ensure no residue, finger prints, or smears remain visible	Item		
<u>Sanitary, Electrical and Mechanical fittings</u>				
7	Wipe and disinfect all sanitary ware, taps and related fittings. Clean light fittings, switches and power outlets, including all mechanical units, with a dry or slightly damp cloth (never saturated to prevent electrical damage).	Item		
<u>External Areas</u>				
<u>Walls, facades and windows,</u>				
8	Wash and clean all external wall surfaces, windowpanes, frames and sills using appropriate detergents and equipment.	Item		
<u>Roofs and gutters</u>				
9	Remove all debris, leaves, and blockages to ensure proper water drainage	Item		
<u>Walkways, driveways, and aprons</u>				
10	Sweep, wash, and pressure clean to remove litter, stains, and moss growth	Item		
Carried to Collection			R	
Section 2				
Bill No. 1				
Alterations				
Completion of Ethandakukhanya Community Health Centre				
Mpumalanga Province				

<u>General Requirements</u>					
11	Use only non-abrasive cleaning materials and approved detergents that do not damage finishes. Remove and dispose of all waste materials packaging, and cleaning residues from site in a safe and environmentally responsible manner. On completion, all internal surfaces shall present a clean, hygienic and finished appearance, free from dust , stains, and construction residues.		Item		
<u>Final Presentation</u>					
12	On completion, the building shall be left clean, odour free, and ready for the HT Equipment and or occupation and use. No streaks, stains should remain on any surfaces. The contractor shall carry out a final inspection with the Principal Agent to confirm compliance.		Item		
<u>Protection of existing work</u>					
13	Prior to commencement of any work, all internal trades completed or partially completed shall be protected throughout the duration of the project . This protection should comply with manufacturers recommendation and approval by the Principal Agent		Item		
<u>REMOVAL OF EXISTING WORK</u>					
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>					
14	Eaves soffit covering including cornices, timber brandering, etc	m2	150		
15	Remove damaged roof sheets and replace with new roof sheeting matching the existing (new sheeting elsewhere measured)	m2	200		
16	Suspended ceilings including suspension grid, hangers, etc	m2	1,150		
17	Fascia and barge boards	m	200		
Carried to Collection				R	
Section 2 Bill No. 1 Alterations Completion of Ethandakukhanya Community Health Centre Mpumalanga Province					

	<u>Taking up and removing vinyl floor coverings, carpeting, etc</u>				
18	Vinyl sheet floor covering including preparing screed for new floor covering	m2	300		
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u>				
19	Screed from floors	m2	100		
20	Internal plaster from brick work	m2	100		
	<u>Hacking up/off and removing, plaster, etc from concrete or brickwork and preparing surfaces to receive a water proofing compound, etc</u>				
21	Remove and or scrape off all loose or damaged existing plaster to walls. Allow wall surfaces affected by rising damp to dry out. Supply and apply a chemical damp proof course (Flick or similar approved) injected under pressure into pre drilled horizontal holes in brickwork in one straight line, at approximately 100mm centres and close to external soil level. Make good all surfaces affected by this remedial work.	m2	200		
	<u>Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes</u>				
22	Tiles to floors	m2	75		
23	Tiles to walls	m2	50		
	<u>Taking out and remove piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes</u>				
24	15mm Copper piping including fittings and brackets	m	25		
25	22mm Copper piping including fittings and brackets	m	25		
26	Vitreous china wash hand basin with tap	No	2		
27	Vitreous china WC pan with flushing valve	No	2		
Carried to Collection				R	
Section 2					
Bill No. 1					
Alterations					
Completion of Ethandakukhanya Community Health Centre					
Mpumalanga Province					

Provisional Bills of Quantities

28	Showder set comprising shower arm, rose and rail	No	1
29	Stainless steel single bowl sink with mixer <u>Taking out and removing glass and mirrors</u>	No	2
30	Glass from steel windows including cleaning out rebates and preparing for new glass CUTTING THROUGH FLOORS AND CEILINGS	m2	5
31	Chasing in brick wall for 15mm copper pipe including making good plastering (pipe measured elsewhere)	m	4
32	Chasing in brick wall for 22mm copper pipe including making good plastering (pipe measured elsewhere) MAKING GOOD OF FINISHES ETC	m	4
	<u>Making good internal cement plaster</u>		
33	Walls in patches <u>Making good external cement plaster</u>	m2	25
34	Walls in patches	m2	25
Carried to Collection			
Section 2 Bill No. 1 Alterations Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

Section 2

Bill No. 1

Alterations

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

35

36

37

38

39

40

41

Carried Forward to Summary of Section No. 2

R

Section 2

Bill No. 1

Alterations

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 2</u>			
<u>MASONRY</u>			
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 116 for CPAP formula purposes.			
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Brickwork</u>			
<u>Sizes in descriptions</u>			
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick.			
<u>Hollow walls etc</u>			
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.			
<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			
Carried to Collection			R
Section 2 Bill No. 2 Masonry Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

SUPERSTRUCTURE**Brickwork of NFP bricks in class II mortar**

1	Piers	m3	1
2	Half brick walls	m2	5
3	Half brick walls in beam filling	m2	5
4	One brick walls (for external wall requirements to be advised by the engineer)	m2	15
5	One brick walls in beam filling	m2	5
6	345mm Hollow walls of two half brick skins including wire ties (for external wall requirements to be advised by the engineer)	m2	21
7	One and half brick walls (for external wall requirements to be advised by the engineer)	m2	21
8	220mm Wide sill set sloping and slightly projecting	m	7

BRICKWORK SUNDRIES**Fair face to brickwork in horizontal stretcher bond pointed with flush horizontal and vertical joints**

9	Extra for fair face	m2	5
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Bagging of 1:3 cement and sand mixture

10	On brick surfaces	m2	5
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Brickwork reinforcement

11	75mm Wide reinforcement built in horizontally	m	5
12	150mm Wide reinforcement built in horizontally	m	5
13	230mm Wide reinforcement built in horizontally	m	7

FACE BRICKWORK**Carried to Collection****R**

Section 2

Bill No. 2

Masonry

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

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Section 2

Bill No. 2

Masonry

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

43

44

45

Carried Forward to Summary of Section No. 2

R

Section 2

Bill No. 2

Masonry

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 3</u>			
<u>WATERPROOFING</u>			
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 120 for CPAP formula purposes. Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<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>WATERPROOFING TO ROOFS, BASEMENTS, ETC</u>			
<u>"Sika Cemflex" waterproofing as per manufacturer's specifications</u>			
1	On shower floors to receive tiles	m2	3
2	On shower walls to receive tiles	m2	2
<u>4mm "Derbigum SP" fully bonded waterproofing</u>			
3	On flat roofs	m2	5
4	On tops and sides of inverted beams	m2	5
Carried to Collection			R
Section 2 Bill No. 3 Waterproofing Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

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Section 2

Bill No. 3

Waterproofing

COLLECTION

Total Brought Forward from Page No.

**Page
No**

47

48

Amount**Carried Forward to Summary of Section No. 2**

R

Section 2

Bill No. 3

Waterproofing

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 4</u>			
	<u>ROOF COVERINGS ETC</u>			
	Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes.			
	Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
	Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			

	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,55mm "Safintra Saflok 700 Zincal AZ150" interlocking roof sheeting with "Colorplus AZ150" finish on one side in single lengths fixed to steel purlins with "Denso LDP 300" isolation tape between aluminium SL700 clips and purlins with minium 3 "Safintra Fixtite" wafer head self-tapping fasteners in strict accordance with manufacturer's specifications. All exposed overhangs needs to be positively fixed using a High Wind Load clip to allow for thermal cycling. If the design does not allow for positive fixing a strong, wind resistant soffit must be installed under the overhang area. Installation by a Safintra Approved Contractor including all necessary sealer strips on overlaps, closure pieces, etc. all complete. A written and approved five year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer.</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	300	
2	Ridge capping 550mm girth 3 (three) times bent and notched on site to suit roof profile	m	30	
3	Side wall flashing 462mm girth 2 (two) times bent and notched on site to suit roof profile	m	60	
	Carried to Collection			
	Section 2			
	Bill No. 4			
	Roof Coverings, etc			
	Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

4	Head wall flashing 462mm girth 2 (two) times bent and notched on site to suit roof profile	m	55		
5	Apex flashing 660mm girth 3 (three) times bent and notched on site to suit roof profile	m	60		
6	Barge flashing 660mm girth 3 (three) times bent and notched on site to suit roof profile	m	55		
7	Counter flashing 185mm girth 3 (three) times bent	m	50		
8	Narrow and broad flute closers 700mm girth	m	50		
	<u>0,55mm "Safintra Saflok 700 Zincal AZ150" interlocking roof sheeting with "Colorplus AZ150" top coat finish with grey backing in single lengths fixed to steel purlins and 0,8mm galvanised sheet steel accessories with "Colorplus" finish on one side in strict accordance with manufacturer's specifications</u>				
9	Roof covering with pitch not exceeding 25 degrees	m2	70		
	<u>STEEL LOUVRES</u>				
	<u>"Safintra"</u>				
10	Fixed louvres in square pattern overall size 2 249 x 2 164mm high extreme in "Zincal" finish, mounted in metal surround frame (frame elsewhere measured) fixed to steel columns according to manufacturer's recommendations - (Type 1B : refer to drawing N10/09/06/WD-700)	No	1		
11	Fixed louvres in square pattern overall size 2 245 x 2 164mm high extreme in "Zincal" finish, mounted in metal surround frame (frame elsewhere measured) fixed to steel columns according to manufacturer's recommendations - (Type 2B : refer to drawing N10/09/06/WD-700)	No	2		
12	Fixed louvres in square pattern overall size 5 301 x 1 160mm high extreme in "Zincal" finish, mounted in metal surround frame (frame elsewhere measured) fixed to steel columns according to manufacturer's recommendations - (Type 6 : refer to drawing N10/09/06/WD-700)	No	1		
Carried to Collection				R	
Section 2					
Bill No. 4					
Roof Coverings, etc					
Completion of Ethandakukhanya Community Health Centre					
Mpumalanga Province					

13	Fixed louvres in unequal pattern overall size 1 372 x 2 699mm high extreme in "Zincal" finish, mounted in metal surround frame (frame elsewhere measured) fixed to steel columns according to manufacturer's recommendations - (Type 3 : refer to drawing N10/09/06/WD-700)	No	1		
14	Fixed louvres in unequal pattern overall size 1 548 x 2 678mm high extreme in "Zincal" finish, mounted in metal surround frame (frame elsewhere measured) fixed to steel columns according to manufacturer's recommendations - (Type 1A : refer to drawing N10/09/06/WD-700)	No	1		
15	Fixed louvres in unequal pattern overall size 1 548 x 2 678mm high extreme in "Zincal" finish, mounted in metal surround frame (frame elsewhere measured) fixed to steel columns according to manufacturer's recommendations - (Type 2A : refer to drawing N10/09/06/WD-700)	No	2		
16	Fixed louvres in unequal pattern size 3 427 x 1 789mm high and in "Zincal" finish, mounted in metal surround frame (frame elsewhere measured) fixed to steel columns according to manufacturer's recommendations - (Type 3: refer to drawing N10/09/06/WD-700)	No	1		
17	Fixed louvres in unequal pattern size 3 785 x 1 846mm high and in "Zincal" finish, mounted in metal surround frame (frame elsewhere measured) fixed to steel columns according to manufacturer's recommendations - (Type 1A: refer to drawing N10/09/06/WD-700)	No	1		
18	Fixed louvres in unequal pattern size 3 782 x 1 845mm high and in "Zincal" finish, mounted in metal surround frame (frame elsewhere measured) fixed to steel columns according to manufacturer's recommendations - (Type 2A: refer to drawing N10/09/06/WD-700)	No	2		
19	Fixed louvres in square pattern overall size 3 540 x 3 219mm high in "Zincal" finish, mounted in metal surround frame (frame elsewhere measured) fixed to steel columns according to manufacturer's recommendations - (Type 4 & 5 refer to drawing N10/09/06/WD-700)	No	1		
Carried to Collection				R	
Section 2					
Bill No. 4					
Roof Coverings, etc					
Completion of Ethandakukhanya Community Health Centre					
Mpumalanga Province					

20	Fixed louvres in square pattern overall size 3 540 x 5 591mm high in "Zincal" finish, mounted in metal surround frame (frame elsewhere measured) fixed to steel columns according to manufacturer's recommendations - (Type 4 & 5 refer to drawing N10/09/06/WD-700)	No	1		
<u>ROOF AND WALL INSULATION</u>					
<u>"Isoboard" high density 32-36kg/m3 rigid extruded polystyrene 100% closed cell insulation boarding and tight butt joints</u>					
21	70mm Thick insulation laid taut over purlins (at approximately 1 200mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m2	50		
Carried to Collection					
Section 2 Bill No. 4 Roof Coverings, etc Completion of Ethandakukhanya Community Health Centre Mpumalanga Province				R	

Section 2

Bill No. 4

Roof Coverings, etc

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

50

51

52

53

Carried Forward to Summary of Section No. 2

R

Section 2

Bill No. 4

Roof Coverings, etc

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 5</u>			
<u>CARPENTRY AND JOINERY</u>			
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 126 for CPAP formula purposes. Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
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			
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			
<u>Joinery</u>			
Descriptions of frames shall be deemed to include frames, transomes, rails, etc.			
Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts			
<u>Decorative thermosetting plastic laminate covering</u>			
Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish			
Carried to Collection			R
Section 2 Bill No. 5 Carpentry and Joinery Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

**PLATE NAILED TIMBER ROOF TRUSS
CONSTRUCTION, ETC.**

The following is applicable in respect of roof trusses:

Trusses are at maximum 1 157mm centres

Roof covering is galvanised "Safintra Saflok" roof sheeting with "Colorplus AZ150" finish on one side on 50 x 75mm purlins at 1 200mm maximum centres.

Ceilings are generally suspended vinyl clad ceilings.

All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 or SABS 1245.

Metal connector plates shall have a minimum yield strength of 228 MPa and a minimum ultimate tensile strength of 330 Mpa with hot-dip galvanised finish.

All joints to be close fitted butt joints.

Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.

The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.

Tenderers must study the roof plan and sections as attached to the back of these bills of quantities and must obtain prices from a qualified and registered roof truss supplier as no claims in this regard will be entertained.

Sundries

1	Two coats creosote on sawn timbers	m2	25
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EAVES , VERGES , ETC

Carried to Collection

Section 2

Bill No. 5

Carpentry and Joinery

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

	<u>"Everite Flexit" pressed nutec-cement</u>				
2	12 x 225mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	150		
	<u>DOORS ETC</u>				
	<u>Wrought meranti doors hung to steel frames</u>				
3	44mm Framed batten double door 1 511 x 2 032mm high with rebated meeting stiles, each leaf of 44 x 146mm top rail and stiles, 22 x 146mm middle ledge and braces and 22 x 222mm bottom rail filled in with 22 mm V-jointed one side boarding and covered on other side with 3mm plywood with veneer to match door let into and including rebates all round including standard aluminium and rubber strip weather bar	No	1		
4	Extra for 330 x 1 450mm opening for metal louvre unit	No	1		
5	44mm Framed batten double door 2 000 x 2 032mm high with rebated meeting stiles, each leaf of 44 x 146mm top rail and stiles, 22 x 146mm middle ledge and braces and 22 x 222mm bottom rail filled in with 22 mm V-jointed one side boarding and covered on other side with 3mm plywood with veneer to match door let into and including rebates all round including standard aluminium and rubber strip weather bar	No	1		
	<u>Solid flush doors with 3,2mm standard hardboard covering on both sides and with hardwood edge strips hung to steel frames</u>				
6	44mm Door 396 x 2 032mm high	No	1		
7	44mm Door 610 x 2 032mm high	No	1		
8	44mm Door 813 x 2 032mm high	No	1		
9	44mm Door 813 x 2 032mm high with 150mm undercut	No	1		
10	44mm Double door 1 511 x 2 032mm high with rebated meeting edges	No	1		
11	44mm Double door 1 511 x 2 032mm high with rebated meeting edges, the one leaf 504mm and the other leaf 1 007mm wide	No	1		
	Carried to Collection			R	
	Section 2				
	Bill No. 5				
	Carpentry and Joinery				
	Completion of Ethandakukhanya Community Health Centre Mpumalanga Province				

12	44mm Purpose made double door 1 740 x 2 032mm high with viewing panel size 415 x 600mm high in each leaf with 15 x 15mm glazing beads (glazing measured elsewhere)	No	1		
13	40mm Purpose made double door 1 800 x 2 032mm high <u>Solid flush doors with 3,2mm standard hardboard covering on both sides and with hardwood edge strips</u>	No	1		
14	44mm Purpose made double door 1 740 x 2 032mm high with viewing panel size 415 x 600mm high in each leaf with 15 x 15mm glazing beads (glazing measured elsewhere) <u>Solid core external quality hardwood door, hung to steel frames</u>	No	1		
15	40mm Single door 900 x 2 032mm high including standard aluminium and rubber strip weather bar <u>Solid flush sliding doors with 3,2mm standard hardboard covering on both sides and with hardwood edge strips, with and including "Hillaldam Straightaway 200A" top hung sliding gear ssytem complete, etc</u>	No	1		
16	44mm Sliding door 1 840 x 2 032mm high <u>FRAMED FRAMES ETC</u> <u>Wrought meranti</u>	No	1		
17	160 x 50mm Rebated frames, plugged	m	1		
Carried to Collection					R
Section 2 Bill No. 5 Carpentry and Joinery Completion of Ethandakukhanya Community Health Centre Mpumalanga Province					

FITTINGS

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

All components and materials of each fitting must be exactly as specified and detailed on the relevant Architects drawings.

No alternative materials will be accepted.

All lockable drawers will have front mounted locks.

All locks are to be suitable for master and grand master key operation.

Manufacture, supply and install complete CUPBOARDS

Carried to Collection

Section 2

Bill No. 5

Carpentry and Joinery

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

Provide all labour, materials, plant and equipment necessary for the supply delivery, and installation of the purpose made joinery fittings as specified on the Architects drawings and schedules.

Work shall include but not limited to :

Manufacture :

Precision fabrication of the joinery fittings, (e.g. cupboards, cabinets, counters, shelving, doors, drawer units, skirting or other specified built in units) to Architects detail, using approved timber board, or composite materials.

All dimensions to be verified on site prior to manufacture.

Materials and Finishes :

All joinery shall be made from approved quality materials approved by the Architect. Exposed surfaces to receive approved finishes such as veneer, high pressure laminate polyurethane spray paint and or granite as a finish material. Hardwood to include hinges, locks, handles, drawer runners, and other accessories of specified and approved quality.

Supply and delivery :

Transport and delivery of joinery units to site in protective packaging ensuring no damage during transit or off loading. Fix joinery units into position true plumb, and level, securely anchored to adjoining structure (walls, floor or ceilings) using approved fixings.

Provide scribing trimming, and adjustments for accurate fit against site conditions. Seal all joints neatly.

Ironmongery and accessories:

Provide and install all required fittings and accessories, including but not limited to hinges, knobs, pulls, soft close mechanisms, locks, escutcheons, and gaskets.

Workmanship:

All joinery must comply with SABS standards (or project specifications). Edges to be smooth, corners aligned, and surfaces free of defects. Joins to be tight and well trimmed.

On Completion:

On completion protect joinery against damage until handover. Replace or repair any defective or damaged work at no extra costs to the client.

BUDGETARY ALLOWANCES

18	Provide the sum of R 350, 000.00 (Three hundred and fifty Thousand Rand) for carpentry and joinery, complete	Item	350,000.00
Carried to Collection		R	
Section 2 Bill No. 5 Carpentry and Joinery Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

Manufacture, supply and install KITCHEN CUPBOARDS, etc

BUDGETARY ALLOWANCES

- 19 Provide the sum of R 150, 000.00 (One hundred and fifty Thousand Rand) for kitchen cupbaords, complete

Item 150,000.00

Manufacture, supply and install BULK HEADS

BUDGETARY ALLOWANCES

- 20 Provide the sum of R 90, 000.00 (Ninety Thousand Rand) for bulk heads, complete

Item 90,000.00

CLADDING

"Formica Pistachio" - decorative finishes

BUDGETARY ALLOWANCES

- 21 Provide the sum of R 100, 000.00 (One hundred and fifty Thousand Rand) for decorative finishes, complete

Item 100,000.00

Carried to Collection

R

Section 2
Bill No. 5
Carpentry and Joinery
**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Section 2

Bill No. 5

Carpentry and Joinery

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

55

56

57

58

59

60

61

Carried Forward to Summary of Section No. 2

R

Section 2

Bill No. 5

Carpentry and Joinery

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 6</u>			
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 129 for CPAP formula purposes. Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
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			
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			
<u>Ceilings</u>			
Unless otherwise described ceilings shall be deemed to be horizontal			
<u>Bulkheads</u>			
Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. Their purpose is either to conceal services or to create architectural features			
Carried to Collection			R
Section 2 Bill No. 6 Ceilings, Partitions and Access Flooring Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions are more than 900mm such portions of ceilings have been included in the appropriate general items of ceilings

Unless otherwise described bulkheads shall be deemed to be horizontal along the length

Steel components

All steel components for ceilings, partitions, etc. are to be galvanised in accordance with SANS 121

NAILED UP CEILINGS

6mm "Everite Nutec" fibre-cement plasterboard with H-type pressed steel jointing strips

1	Ceilings including 50 x 75mm sawn softwood bandering at 600mm centres in one direction	m2	20
2	Sloping ceilings including 38 x 38mm sawn softwood bandering at 600mm centres in one direction	m2	20
3	Extra over ceiling for 700 x 700mm trap door of 38 x 38mm wrought softwood rebated framing with one 150 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening (Provisional)	No	2

"Rhino" gypsum plasterboard cornices

4	75mm Coved cornices	m	55
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SUSPENDED CEILINGS

Carried to Collection

R

Section 2

Bill No. 6

Ceilings, Partitions and Access Flooring

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Proprietary suspended ceilings

NOTE: Electrical light fittings, diffusers, panels, etc. generally are "lay in" units of the same dimensions as the suspension grid described and allowance must be made accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof).

9mm "Lafarge Gypsum Master grid" plasterboard fixed at right angles to 35mm concealed face suspended ceiling grid system with 24 x 35mm high galvanised steel knurled capped main tees at 1 200mm centres and cross tees at 400mm centres, using 25mm drywall screws at 150mm centres including main and cross tees, necessary hangers, grids, etc., all joints to be taped and the whole ceiling finished with "Lafarge" gypsum skim plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer

5	Ceilings suspended not exceeding 1m below timber purlins at 1 200mm centres (trusses at 1 168mm centres) (Provisional)	m2	1,300		
6	Vertical bulkheads 200mm deep suspended not exceeding 1m below timber purlins at 1 200mm centres (trusses at 1 168mm centres) (Provisional)	m	5		
7	Vertical bulkheads 510mm deep suspended not exceeding 1m below timber purlins at 1 200mm centres (trusses at 1 168mm centres) (Provisional)	m	5		
8	Vertical bulkheads 600mm deep suspended not exceeding 1m below timber purlins at 1 200mm centres (trusses at 1 168mm centres) (Provisional)	m	5		

Carried to Collection

R

Section 2

Bill No. 6

Ceilings, Partitions and Access Flooring

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

9	Horizontal bulkheads 500mm wide suspended not exceeding 1m below timber purlins at 1 200mm centres (trusses at 1 168mm centres) (Provisional)	m	10		
10	Horizontal bulkheads 600mm wide suspended not exceeding 1m below timber purlins at 1 200mm centres (trusses at 1 168mm centres) (Provisional)	m	5		
11	Extra over ceiling for not exceeding 300mm diameter opening for downlighter, smoke detector, etc.	No	7		
12	Extra over ceiling for not exceeding 300 x 300mm opening for downlighter, smoke detector, etc.	No	10		
	<u>600 x 600 x 12,5mm "BPB Gyprex White" vinyl clad ceiling panels on "Donn T38" pre-painted exposed tee suspension system including main and cross tees, necessary hangers, grids, etc.</u>				
13	Ceilings suspended not exceeding 1m below steel purlins at 1 200mm centres (trusses at 1 157mm centres)	m2	20		
	<u>1 200 x 600 x 12,5mm "BPB Gyprex White" vinyl clad ceiling panels on "Donn T38" pre-painted exposed tee suspension system including main and cross tees, necessary hangers, grids, etc.</u>				
14	Ceilings suspended not exceeding 1m below steel purlins at 1 200mm centres (trusses at 1 157mm centres)	m2	20		
15	Sloping ceilings suspended not exceeding 1m below steel purlins at 1 200mm centres (trusses at 1 157mm centres)	m2	20		
Carried to Collection				R	
Section 2					
Bill No. 6					
Ceilings, Partitions and Access Flooring					
Completion of Ethandakukhanya Community Health Centre					
Mpumalanga Province					

	<u>600 x 1200mm "AMF Topiq Prime Hygena" ceiling panels on "Econogrid" pre-painted exposed tee suspension system including main and cross tees, necessary hangers, grids, etc.</u>				
16	Ceilings suspended not exceeding 1m below steel purlins at 1 200mm centres (trusses at 1 177mm centres)	m2	20		
	<u>600 x 1200mm "Knauf AMF Thermatex Thermofon SK Hygena" acoustic ceiling panels on "Econogrid" pre-painted exposed tee suspension system including main and cross tees, necessary hangers, grids, etc.</u>				
17	Ceilings suspended not exceeding 1m below steel purlins at 1 200mm centres (trusses at 1 200mm centres)	m2	20		
18	Sloping ceilings suspended not exceeding 1m below steel purlins at 1 200mm centres (trusses at 1 200mm centres)	m2	20		
19	Sloping ceilings suspended not exceeding 1m below steel purlins at 1 200mm centres (trusses at 1 200mm centres)	m2	20		
	<u>Sundries to suspended ceilings (Provisional)</u>				
20	Extra over ceiling for opening for 150mm diameter downlighter	No	10		
21	Extra over ceiling for opening for 600 x 600mm opening for light fitting	No	10		
22	Extra over ceiling for opening for 600 x 1 200mm opening for light fitting	No	10		
	<u>"Donn" cornices to suspended ceilings</u>				
23	"LSM25" pre-painted cornices plugged	m	165		
Carried to Collection				R	
Section 2					
Bill No. 6					
Ceilings, Partitions and Access Flooring					
Completion of Ethandakukhanya Community Health Centre					
Mpumalanga Province					

Section 2

Bill No. 6

Ceilings, Partitions and Access Flooring

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

63

64

65

66

67

Carried Forward to Summary of Section No. 2

R

Section 2

Bill No. 6

Ceilings, Partitions and Access Flooring

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 7</u>			
<u>FLOOR COVERINGS, PLASTIC LININGS, ETC</u>			
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 130 for CPAP formula purposes. Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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 "Polyflor XL PU (Colour: Crystal Blue - code : 3740)" homogeneous fully flexible vinyl sheeting with welded joints</u>			
1	On floors laid in patterns	m2	50
<u>2mm "Polyflor XL PU (Colour: Dark Sapphire - code : 3820)" homogeneous fully flexible vinyl sheeting with welded joints</u>			
2	On floors laid in patterns	m2	20
Carried to Collection			R
Section 2 Bill No. 7 Floor Coverings, Plastic Linings, etc Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

	<u>2mm "Polyflor XL PU (Colour: Blue Nickel - code : 3730)" homogeneous fully flexible vinyl sheeting with welded joints</u>				
3	On floors laid in patterns	m2	10		
	<u>2mm "Polyflor XL PU (Colour: Tanzanite Blue - code : 3750)" homogeneous fully flexible vinyl sheeting with welded joints</u>				
4	On floors	m2	10		
	<u>2mm "Polyflor XL PU (Colour: Porcelain - code : 3880)" homogeneous fully flexible vinyl sheeting with welded joints</u>				
5	On floors	m2	10		
6	Margins and borders 200mm wide	m	20		
7	Margins with turn-ups over coves and up against walls 400mm girth	m	10		
	<u>2mm "Polyflor XL PU (Colour: Fossil - code : 3710)" homogeneous fully flexible vinyl sheeting with welded joints</u>				
8	On floors	m2	10		
	<u>2mm "Polyflor XL PU (Colour: Flint- code : 3720)" homogeneous fully flexible vinyl sheeting with welded joints</u>				
9	On floors laid in patterns	m2	10		
10	Margins and borders 200mm wide	m	10		
11	Margins with turn-ups over coves and up against walls 400mm girth	m	15		
	<u>2mm "Polyflor XL PU (Colour: Connemara Green - code : 3800)" homogeneous fully flexible vinyl sheeting with welded joints</u>				
12	On floors	m2	15		
Carried to Collection				R	
Section 2					
Bill No. 7					
Floor Coverings, Plastic Linings, etc					
Completion of Ethandakukhanya Community Health Centre					
Mpumalanga Province					

	<u>2mm "Polyflor XL PU (Colour: Peridot Green - code : 3790)" homogeneous fully flexible vinyl sheeting with welded joints</u>				
13	On floors laid in patterns	m2	10		
	<u>2mm "Polyflor XL PU (Colour: Amethyst - code : 3780)" homogeneous fully flexible vinyl sheeting with welded joints</u>				
14	On floors	m2	10		
15	Margins and borders 200mm wide	m	10		
16	Margins with turn-ups over coves and up against walls 400mm girth	m	10		
	<u>2mm "Polyflor XL PU (Colour: Rose Quarts - code : 3870)" homogeneous fully flexible vinyl sheeting with welded joints</u>				
17	On floors	m2	10		
	<u>2mm "Polyflor XL PU (Colour: Opal - code : 3930)" homogeneous fully flexible vinyl sheeting with welded joints</u>				
18	On floors laid in patterns	m2	10		
	<u>2mm "Polyflor XL PU (Colour: Blue Zircon - code : 3760)" homogeneous fully flexible vinyl sheeting with welded joints</u>				
19	On floors laid in patterns	m2	10		
20	Margins and borders 200mm wide	m	10		
21	Margins with turn-ups over coves and up against walls 400mm girth	m	10		
	<u>2mm "Polyflor XL PU (Colour: Turquoise - code : 3810)" homogeneous fully flexible vinyl sheeting with welded joints</u>				
22	On floors laid in patterns	m2	10		
Carried to Collection				R	
Section 2					
Bill No. 7					
Floor Coverings, Plastic Linings, etc					
Completion of Ethandakukhanya Community Health Centre					
Mpumalanga Province					

	<u>2mm "Polyflor XL PU (Colour: Citrine - code : 3930)" homogeneous fully flexible vinyl sheeting with welded joints</u>				
23	On floors	m2	10		
	<u>2mm "Polyflor XL PU (Colour: Ruby - code : 3840)" homogeneous fully flexible vinyl sheeting with welded joints</u>				
24	Line insets 150mm wide	m	10		
	<u>"Easigrass Easisport" Textured monofilament artificial grass installed complete</u>				
25	On floors	m2	10		
	<u>WALL LININGS</u>				
	<u>1,5mm "Polyflor XL PU (Colour: Porcelain - code : 3880)" homogeneous fully flexible vinyl sheeting with welded joints</u>				
26	On walls	m2	30		
27	On walls in narrow widths	m2	5		
	<u>SKIRTINGS, NOSING, ETC.</u>				
	<u>"Polyflor"</u>				
28	"PC20" Polycove pvc halfround corner strip	m	20		
29	Extra over for PC20 Polycove pvc taper door piece	No	10		
30	"CS48" Capping strip	m	12		
	<u>BUMPRAILS, CORNER PROTECTORS, ETC</u>				
	<u>"Gradus"</u>				
31	"SSHR42" Stainless steel handrail fixed to brick walls	m	20		
32	"SSHR42/EC" Flat end cap	No	4		
33	"SSHR42/A90" 90 Degree inside/outside corner	No	4		
	Carried to Collection			R	
	Section 2				
	Bill No. 7				
	Floor Coverings, Plastic Linings, etc				
	Completion of Ethandakukhanya Community Health Centre				
	Mpumalanga Province				

34	"1804Hole" 1 220mm High surface mounted high impact corner guards with 90mm wing size fixed to brick wall	No	4		
35	"BL1300" Aluminium bed protector 800mm wide with PVC covers including returns, brackets installed complete	No	4		
	<u>POLISH, SEALERS, ETC</u>				
	<u>Two coats wax polish</u>				
36	On vinyl floors	m2	4,800		
37	On vinyl walls	m2	550		
	<u>SUNDRIES</u>				
	<u>"Entrap PF 9100" vinyl non woven continuous filament floor mats with "Z web" pattern</u>				
38	Recessed floor mat size 2 257 x 2 000m wide	No	4		
39	Recessed floor mat size 3 000 x 2 000m wide	No	4		
	<u>Sundries</u>				
40	2mm Thick "Pro Sound" Moisture block applied to level surfaces	m2	10		
Carried to Collection				R	
Section 2					
Bill No. 7					
Floor Coverings, Plastic Linings, etc					
Completion of Ethandakukhanya Community Health Centre					
Mpumalanga Province					

Section 2

Bill No. 7

Floor Coverings, Plastic Linings, etc

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

69

70

71

72

73

Carried Forward to Summary of Section No. 2

R

Section 2

Bill No. 7

Floor Coverings, Plastic Linings, etc

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 8</u>			
<u>IRONMONGERY</u>			
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 132 for CPAP formula purposes. Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
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>HINGES, BOLTS, ETC.</u>			
<u>"Dorma"</u>			
Carried to Collection			R
Section 2			
Bill No. 8			
Ironmongery			
Completion of Ethandakukhanya Community Health Centre			
Mpumalanga Province			

<u>BUDGETARY ALLOWANCES</u>				
1	Provide the sum of R 50, 000.00 (Fifty Thousand Rand) for hinges and bolts, complete		Item	50,000.00
	<u>"Dorma"</u>			
<u>CATCHES, CABIN HOOKS, ETC</u>				
2	150mm Satin chrome cabin hook and eye	No	12	
	<u>"Dorma"</u>			
3	"DBC-SS-022" adjustable roller bolt	No	122	
<u>LOCKS</u>				
	<u>"Dorma"</u>			
<u>BUDGETARY ALLOWANCES</u>				
4	Provide the sum of R 50, 000.00 (Fifty Thousand Rand) for locks, complete		Item	50,000.00
<u>HANDLES AND ESCUTCHEONS</u>				
	<u>"Dorma"</u>			
<u>BUDGETARY ALLOWANCES</u>				
5	Provide the sum of R 30, 000.00 (Thirty Thousand Rand) for handles, complete		Item	30,000.00
<u>PUSH PLATES AND KICKING PLATES</u>				
	<u>"Dorma"</u>			
<u>BUDGETARY ALLOWANCES</u>				
6	Provide the sum of R 30, 000.00 (Thirty Thousand Rand) for push and kick plates, complete		Item	30,000.00
<u>DOOR CLOSERS</u>				
	<u>"Dorma"</u>			
Carried to Collection				R
Section 2				
Bill No. 8				
Ironmongery				
Completion of Ethandakukhanya Community Health Centre				
Mpumalanga Province				

BUDGETARY ALLOWANCES

7	Provide the sum of R 30, 000.00 (Thirty Thousand Rand) for door closers, complete	Item	30,000.00
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LETTERS, NAMEPLATES, ETC (PROVISIONAL)

8	300 x 150mm High photoluminescent plate with "EXIT" signage with and including natural anodized aluminium frame, drilled and plugged	No	12
9	300 x 150mm High photoluminescent plate with "FIRE EXTINGUISHER" signage with and including natural anodized aluminium frame, drilled and plugged	No	13
10	300 x 150mm High photoluminescent plate with "ESCAPE ROUTE - RIGHT" signage with and including natural anodized aluminium frame, drilled and plugged	No	18
11	300 x 150mm High photoluminescent plate with "ESCAPE ROUTE - LEFT" signage with and including natural anodized aluminium frame, drilled and plugged	No	20
12	300 x 150mm High photoluminescent plate with "ESCAPE ROUTE - DOWN" signage with and including natural anodized aluminium frame, drilled and plugged	No	18
13	300 x 150mm High photoluminescent plate with "FIRE CABINET" signage with and including natural anodized aluminium frame, drilled and plugged	No	15
14	300 x 300mm High photoluminescent plate with "FLAMMABLE LIQUIDS / NO SMOKING / NO FIRE" signage with and including natural anodized aluminium frame, drilled and plugged	No	2
15	450 x 150mm High photoluminescent plate with "FIRE CABINET" signage with and including natural anodized aluminium frame, drilled and plugged	No	11
16	450 x 150mm High double-sided photoluminescent plate with "FIRE CABINET" signage with and including natural anodized aluminium frame, drilled and plugged	No	15

Carried to Collection**R**

Section 2
 Bill No. 8
 Ironmongery
**Completion of Ethandakukhanya Community Health Centre
 Mpumalanga Province**

[illegible]

	<u>Manufactured by "Hospi-Track and Equipment" or similar approved</u>				
29	"Hospi-Showline SK/S21" hospital cubicle curtain tracks (incl approved curtains) fixed to suspended ceilings approximately 900mm below soffit of slab including 12 gliders per meter, including, hangers, brackets, curtains, stopped ends, etc	m	155		
30	Extra over for end bracket plugged	No	69		
31	Extra over for bend	No	87		
32	Extra for joint at bend	No	5		
	<u>"BATHROOM FITTINGS"</u>				
	<u>"Approved Fittings"</u>				
	<u>BUDGETARY ALLOWANCES</u>				
33	Provide the sum of R 700,000.00 (Seven hundred Thousand Rand) for bathroom fittings, complete		Item		700,000.00
	<u>"Franke"</u>				
34	"BR4" Bedpan and bottle rack	No	3		
35	"CNTX400A" Fold down shower seat	No	7		
	<u>"Halcast"</u>				
36	Approved plastic shower curtain to fit opening 1 355mm wide, including hangers, fixed to rail (e/m)	No	14		
	<u>"Railman"</u>				
37	32mm Type DL3 dog leg grab rail plugged	No	17		
38	32mm Type SR1 side grab rail plugged	No	17		
	<u>SUNDRIES</u>				
	<u>"Dorma"</u>				
39	"DDS-NP-018" door stop plugged	No	57		
	Carried to Collection			R	
	Section 2				
	Bill No. 8				
	Ironmongery				
	Completion of Ethandakukhanya Community Health Centre				
	Mpumalanga Province				

40	"DHC-SS-031-B" rubber tipped hat and coat hook	No	50
41	"DPS-SS-032" Dust proof strike	No	24
<u>HORISONTAL BLINDS</u>			
<u>Plain aluminium venetian blind system complete with 25 x 25mm high powdercoated aluminium top and bottom tracks, stainless steel separator pins, cordlock and roller pins, 25 x 0,21mm thick slats, etc and fixing to concrete lintel</u>			
42	Unit for window size 533 x 359mm high	No	36
43	Unit for window size 533 x 654mm high	No	15
44	Unit for window size 889 x 457mm high	No	81
45	Unit for window size 889 x 854mm high	No	14
46	Unit for window size 987 x 511mm high	No	18
47	Unit for window size 1 022 x 654mm high	No	16
48	Unit for window size 1 022 x 949mm high	No	1
49	Unit for window size 1 500 x 1 085mm high	No	10
50	Unit for window size 1 511 x 359mm high	No	1
51	Unit for window size 1 511 x 654mm high	No	12
52	Unit for window size 1 511 x 949mm high	No	15
53	Unit for window size 1 511 x 1 245mm high	No	4
54	Unit for window size 1 511 x 1 540mm high	No	30
55	Unit for window size 1 511 x 1 604mm high	No	4
56	Unit for window size 1 511 x 2 194mm high	No	2
57	Unit for window size 2 000 x 680mm high	No	1
58	Unit for window size 2 000 x 1 308mm high	No	6

Carried to Collection

R

Section 2
Bill No. 8
Ironmongery
**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

59	Unit for window size 2 000 x 1 604mm high	No	24
60	Unit for window size 2 489 x 654mm high	No	3
<u>STEEL LOCKERS</u>			
<u>"Greenfield Baseline Guardsman" Steel lockers with standard baked enamel finish</u>			
61	"GB002" Locker 380 x 450 x 1 950mm high	No	25
<u>WRITING BOARDS, PINNING BOARD, ETC</u>			
<u>"CN Business Furniture"</u>			
62	"BD1260" White writing board 1 500 x 1 200mm high plugged	No	1
63	"BD0760" Aluminium framed pin-up board 1 500 x 1 000mm high plugged	No	14
<u>PUBLIC BENCH SEATING</u>			
<u>"Bonno Metal Commercial" perforated stainless steel</u>			
<u>Take delivery of, and place into final position steel seating benches including, safe storage in a secure area to prevent damage or corrosion. Accurate positioning as per the drawings and / or on site instructions. Final adjustment, alignment, and cleaning of benches on completion. All labour, plant and equipment and incidental materials required for the proper execution.</u>			
64	Four seater bench fixed to floor	No	9
65	Five seater bench fixed to floor	No	25
66	Six seater bench fixed to floor	No	6
67	Seven seater bench fixed to floor	No	12
68	Eight seater bench fixed to floor	No	6
Carried to Collection			
Section 2			
Bill No. 8			
Ironmongery			
Completion of Ethandakukhanya Community Health Centre			
Mpumalanga Province			

R

BUDGETARY ALLOWANCES

69 Provide the sum of R 30, 000.00 (Thirty Thousand Rand) for Special key lockers and key boards as per client requirements

Item

30,000.00

Carried to Collection

R

Section 2
 Bill No. 8
 Ironmongery
**Completion of Ethandakukhanya Community Health Centre
 Mpumalanga Province**

Section 2

Bill No. 8

Ironmongery

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

75

76

77

78

79

80

81

82

Carried Forward to Summary of Section No. 2

R

Section 2

Bill No. 8

Ironmongery

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 9</u>			
<u>METALWORK</u>			
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 136 for CPAP formula purposes.			
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions of bolts, anchors, etc.</u>			
Descriptions of bolts shall be deemed to include nuts and washers			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres			
Carried to Collection			R
Section 2 Bill No. 9 Metalwork Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

Aluminium doors, windows, etc.

Doors and windows shall comply with AAAMSA design criteria

Glazing shall comply with SAGGA regulations. Glass shall be laminated performance glass as shown on the window schedules/drawings appended to these bills of quantities. Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings

Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed

For purpose-made windows and doors, refer to window and door schedules annexed to these bills of quantities :

N10-09-06/WD-500 rev 0 and N10-09-06/WD-510 rev 0

The following certificates shall be provided prior to commencement of site work:

- 1 A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product.
- 2 A Certificate of Conformance confirming that anodizing or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively.
- 3 A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process.
- 4 A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked.
- 5 A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for a period of not less than five years.

Carried to Collection

Section 2
Bill No. 9
Metalwork

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

STEEL HANDRAILS, BALUSTRADES, ETCStainless steel handrails to balconies, ramps etc

- | | | | |
|---|--|---|----|
| 1 | 1 100mm High handrail (Prime Cost Amount R 1 200.00/m) | m | 10 |
|---|--|---|----|

STEEL GATES, SCREENS, ETC.Welded screens and gates to brickwork

- | | | | |
|---|---|----|---|
| 2 | Single gate size 900 x 2 015mm high consisting of 76 x 50 x 3mm hollow section outer frame with 25 x 25 x 3mm angle iron welded to inside, filled in with and including galvanised "Clearvue wire mesh" and fitted with four x 150mm stainless steel hinges including set of "Dorma TH120" lever handle with "Dorma D02635SS" narrow stile sash lock, "Dorma DDC106601MK" 66m ten pin euro profile double cylinder master keyed complete (G4) | No | 1 |
| 3 | Single gate size 900 x 2 620mm high of 76 x 50 x 3mm hollow section outer frame with 25 x 25 x 3mm angle section welded to inside, filled in with and including galvanised "Clearvue wire mesh" and fitted with four x 150mm stainless steel hinges per leaf including set of "Dorma TH120" lever handle with "Dorma D02635SS" narrow stile sash lock, "Dorma DDC106601MK" 66m ten pin euro profile double cylinder master keyed complete (G1) | No | 1 |
| 4 | Double gate size 1 000 x 2 125mm high consisting of 76 x 50 x 3mm hollow section outer frame with 25 x 25 x 3mm angle iron welded to inside, filled in with and including galvanised "Clearvue wire mesh" and fitted with four x 150mm stainless steel hinges per leaf including set of "Dorma TH120" lever handle with "Dorma D02635SS" narrow stile sash lock, "Dorma DDC106601MK" 66m ten pin euro profile double cylinder master keyed and "BHD150" barrel bolt complete (G7) | No | 1 |
| 5 | Double gate size 1 212 x 1 470mm high consisting of 50 x 50 x 3mm hollow section outer frame, filled in with and including natural anodized aluminium louvre grill to inside of steel frame, with and including three heavy duty self-closing hinges, padlock and barrelbolt etc complete as per attached detail (G8) | No | 1 |

Carried to Collection**R**

Section 2

Bill No. 9

Metalwork

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

<u>Matt black powdercoated steel gates and screens to brickwork</u>					
6	Screen consisting of three panels, size 716 x 1 275mm high, 716 x 1 275mm high and 428 x 1 275mm high, all with 50 x 50 x 5mm angle iron frame filled in with galvanised "Clearvue" in fill panel fixed to brickwork complete as per attached detail (S1) (Gate G1 elsewhere measured)	No	1		
7	Screen panel overall size 1 150 x 800mm high of 50 x 50 x 5mm angle iron frame filled in with and including galvanised "Clearvue" in fill panel complete as per attached detail (S7)	No	1		
<u>GALVANIZED PRESSED STEEL ROLLERSHUTTERS</u>					
<u>Purpose made "Roll-up Serranda" solid slatted roller shutter fixed to brickwork or concrete</u>					
8	Chain operated slatted roller shutter for 1 109 x 1 390mm high opening (RS1)	No	1		
9	Chain operated slatted roller shutter for 1 500 x 985mm high opening (RS4)	No	1		
10	Chain operated slatted roller shutter for 1 599 x 1 680mm high opening (RS2)	No	1		
11	Chain operated slatted roller shutter for 1 706 x 1 680mm high opening (RS3)	No	1		
<u>BUDGETARY ALLOWANCE</u>					
<u>INSPECTION, RECTIFY AND COMPLIANCE OF ALL ALUMINIUM AND GLAZING</u>					
<u>Inspect, notify the principal agent of any costs related to rectify all aluminium related work including related glazing to ensure compliance and issuing of a compliance certificate to the approval of the Principal Agent</u>					
12	Allowance to Inspect, notify and rectify and issue a compliance certificate for all aluminium and glazing related installation completed and that still need to be completed			Item	
Carried to Collection				R	
Section 2 Bill No. 9 Metalwork Completion of Ethandakukhanya Community Health Centre Mpumalanga Province					

Section 2

Bill No. 9

Metalwork

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

84

85

86

87

Carried Forward to Summary of Section No. 2

R

Section 2

Bill No. 9

Metalwork

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u> <u>BILL NO. 10</u> <u>STRUCTURAL STEELWORK (PROVISIONAL)</u> Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 134 for CPAP formula purposes. Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill. ----- Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved." <u>SUPPLEMENTARY PREAMBLES</u> <u>Descriptions</u> Descriptions of bolts shall be deemed to include nuts and washers. Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete ----- <u>STEEL COLUMNS AND BEAMS</u> <u>Welded columns in single lengths with flat section base, top, bearer and connection plates bolted to steel or concrete</u>			
1	140 x 73 x 12,9kg/m IPE-section columns	t	0.20	
	Carried to Collection		R	
	Section 2 Bill No. 10 Structural Steelwork (Provisional) Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

	<u>Welded beams in single lengths with flat section bearer and connection plates bolted to concrete columns</u>				
2	180 x 70mm Parallel flange channel-section beams	t	0.20		
	<u>Bolts to columns, beams, etc</u>				
3	M20 holding down bolt (grade 8.8) 400mm long embedded in top of concrete	No	20		
4	M12 galvanised heavy duty anchor bolt (grade 8.8) 150mm long embedded in top or side of concrete	No	20		
5	150mm M12 chemical expansion bolt	No	20		
	<u>STEEL PURLINS, GIRTS, BRACING, ETC.</u>				
	<u>Purlins and girts bolted to steel, all complete as per engineers drawings, specifications and steel notes</u>				
6	Lipped channel section purlins	t	0.20		
	<u>Welded bracing, etc. with flat section connection plates bolted to steel, all complete as per engineers drawings, specifications and steel notes</u>				
7	Rectangular hollow section knee bracing	t	0.10		
8	Angle section sag rails	t	0.10		
9	Round hollow section cross bracing	t	0.10		
	<u>THE FOLLOWING IN LOUVRE FRAMES</u>				
	<u>Welded framing to louvres</u>				
10	140 x 60 x 16kg/m PFC-section outer frame	t	0.20		
11	30mm Round tube 50mm long welded both sides (refer louvre fixing detail)	No	20		
Carried to Collection				R	
Section 2 Bill No. 10 Structural Steelwork (Provisional) Completion of Ethandakukhanya Community Health Centre Mpumalanga Province					

Section 2

Bill No. 10

Structural Steelwork (Provisional)

COLLECTION

Total Brought Forward from Page No.

**Page
No**

89

90

Amount**Carried Forward to Summary of Section No. 2**

R

Section 2

Bill No. 10

Structural Steelwork (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 11</u>			
<u>PLASTERING</u>			
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 142 for CPAP formula purposes.			
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>GRANOLITH</u>			
<u>Method</u>			
The method to be used shall be either the monolithic method or the bonded method			
<u>Preparation</u>			
For granolith 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 granolith applied immediately thereafter. For granolith 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 granolith			
Carried to Collection			R
Section 2 Bill No. 11 Plastering Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

Mix

Granolith 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 granolith exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolith

Panels

Granolith 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 granolith. 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 granolith shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels

Bonded granolith 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 granolith. The granolith shall be thoroughly compacted and lightly wood floated to the required levels

After wood floating, the monolithic and bonded granolith 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

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

Carried to Collection

R

Section 2

Bill No. 11

Plastering

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Colour

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

Carried to Collection

Section 2
Bill No. 11
Plastering
**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

SCREEDS1:4 Cement plaster screeds wood floated on concrete

1	30mm Thick on floors and landings	m2	20
2	Average 50mm thick on floors to falls	m2	6
3	Average 40mm thick on roofs with upper surface to falls	m2	1
4	100 x 100mm Triangular fillet at junction of slab and beam or wall	m	1

1:4 Cement plaster screeds steel floated on concrete (Class 1)

5	30mm Thick on floors and landings	m2	20
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SELF-LEVELLING SCREED

Apply "Poly Levelmaster" self-levelling screed strictly according to manufacturers instructions on dry sub surface (moisture tests must be done) on and including primer in sufficient thickness (minimum 3mm), to obtain level surface and providing quality base for vinyl flooring

6	On concrete surfaces	m2	25
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GRANOLITHICUntinted granolithic on concrete

7	40mm Thick on floors and landings	m2	3
8	Average 50mm thick on floors with upper surface to falls	m2	3
9	Skirtings 75mm high	m	5

INTERNAL PLASTER

One coat plaster (1:5) on brickwork with small parts on concrete, wood floated for tiles

10	On walls	m2	10
11	On narrow widths not exceeding 300mm wide	m2	1

Carried to Collection

R

Section 2

Bill No. 11

Plastering

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

	<u>Two coat plaster with gypsum finish on brickwork</u>				
12	On walls	m2	10		
13	On narrow widths	m2	1		
	<u>Two coat plaster with gypsum finish on concrete</u>				
14	On ceilings and beams	m2	20		
15	On projecting and isolated columns	m2	10		
	<u>Cement plaster rendering coat with gypsum skim plaster finishing coat, on brickwork</u>				
16	On walls	m2	5		
17	On narrow widths not exceeding 300mm wide	m2	5		
	<u>EXTERNAL PLASTER</u>				
	<u>One coat plaster (1:5) on brickwork with small parts on concrete</u>				
18	On walls	m2	10		
19	On screen walls	m2	2		
20	On narrow widths	m2	1		
21	On sloping top, edge and projecting soffit of sills 415mm girth	m	1		
	<u>One coat plaster (1:5) wood floated on concrete</u>				
22	On projecting and isolated columns	m2	2		
23	On ceilings and beams	m2	2		
	<u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u>				
24	2,5 x 20mm Flat section aluminium dividing strips between different floor finishes	m	3		
Carried to Collection				R	
Section 2					
Bill No. 11					
Plastering					
Completion of Ethandakukhanya Community Health Centre					
Mpumalanga Province					

Section 2

Bill No. 11

Plastering

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

92

93

94

95

96

Carried Forward to Summary of Section No. 2

R

Section 2

Bill No. 11

Plastering

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 12</u>			
<u>TILING</u>			
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 144 for CPAP formula purposes.			
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc. shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors, etc. shall be deemed to include 1:3 plaster bedding			
Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat			
Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Professional" range of products as recommended by the manufacturer of the tiles			

<u>WALL TILING</u>			
Carried to Collection			R
Section 2 Bill No. 12 Tiling Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

200 x 250 x 4,7mm "Johnson" or equal approved glazed ceramic wall tiles with jointing and grouting in continuous joints in both directions, fixed with adhesive to plaster (plaster elsewhere)

1	On walls	m2	35
2	On walls in isolated panels, splashbacks, etc	m2	4
3	On narrow widths not exceeding 300mm wide	m2	42

Carried to Collection

R

Section 2
Bill No. 12
Tiling

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

FLOOR TILING

300 x 300mm x 8mm Sandstone tiles (Prime Cost Amount R 400.00/m2) fixed with adhesive to bedding (bedding elsewhere) and flush pointed with "Tal Wall & Floor Grout" (Dove grey) jointing compound

4 On floors and landings in patterns m2 30

5 Skirting 100mm high m 20

300 x 300 x 8mm Anti-slip porcelain floor tiles (Prime Cost Amount R300.00/m2) fixed with adhesive to bedding (bedding elsewhere) and flush pointed with tinted waterproof jointing compound

6 On floors and landings in patterns m2 20

7 Skirting 100mm high m 10

47 x 47 x 6mm Glazed ceramic anti-slip mosaic tiles (Prime Cost Amount R 400.00/m2) fixed with adhesive to bedding (bedding elsewhere) and flush pointed with tinted waterproof jointing compound

8 On floors to falls in patterns m2 7

CORNER PROTECTORS, DIVIDING STRIPS, ETC

"Kirk Marketing"

9 "SSE080" Stainless steel straight edge trims m 30

Carried to Collection

R

Section 2

Bill No. 12

Tiling

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Section 2

Bill No. 12

Tiling

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

98

99

100

Carried Forward to Summary of Section No. 2

R

Section 2

Bill No. 12

Tiling

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 13</u>			
<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 146 for CPAP formula purposes. Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Wire gratings</u>			
Descriptions of gutter outlets, etc. shall be deemed to include wire balloon gratings			
<u>Stormwater channels</u>			
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc., and disposal of surplus material on site			
<u>French drains</u>			
Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site			
Carried to Collection			R
Section 2 Bill No. 13 Plumbing and Drainage (Provisional) Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

Septic tanks

Descriptions of proprietary type septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc., all in accordance with the manufacturer's instructions and disposal of surplus material on site

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

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

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

Stainless steel for laboratory sinks, photographic equipment, etc. shall be Type 316 (18/8)

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable

Sealing of edges

Outer edges of sinks, basins, baths, urinals, etc. are to be sealed against adjacent surfaces with approved silicone

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

Carried to Collection

Section 2

Bill No. 13

Plumbing and Drainage (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

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-siphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016

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

Reducing fittings

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

Carried to Collection

Section 2

Bill No. 13

Plumbing and Drainage (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

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 (provision for disinfection elsewhere)

"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 20% 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

Laying, backfilling, bedding, etc. of pipes

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

Carried to Collection

R

Section 2

Bill No. 13

Plumbing and Drainage (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

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 to a minimum of 93% Mod AASHTO density and disposal of surplus material on site

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

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

Carried to Collection

Section 2

Bill No. 13

Plumbing and Drainage (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

As-built drawings

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

RAINWATER DISPOSAL

0,6mm "Watertite Guttering" domestic ogee profile seamless gutter with "Chromadek" finish

1	150 x 150mm Eaves gutters	m	612
2	Extra over 150 x 150mm eaves gutter for stopped end	No	30
3	Extra over 150 x 150mm eaves for angle	No	60
4	Extra over 150 x 150mm eaves gutter for outlet for 100 x 100mm pipe	No	30
5	100 x 100mm Diameter rainwater pipes	m	90
6	Extra over 100 x 100mm rainwater pipe for bend	No	30
7	Extra over 100 x 100mm rainwater pipe for shoe	No	30

SANITARY FITTINGS

"Franke" stainless steel

8	"WB001" wash hand basins 520 x 432mm wide	No	1
9	"Projectline 821047" sink and drainer 800 x 460mm wide with one bowl	No	1
10	"Trentline 711" sink and drainer 1 200 x 535mm wide with one bowl	No	1
11	"Projectline 1990031" sink and drainer 1 160 x 460mm wide double bowl	No	1
12	"LDS" drip sink, size 500 x 600mm wide	No	1

Carried to Collection

R

Section 2

Bill No. 13

Plumbing and Drainage (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

13	"Luxhtub LDL" wash trough 500 x 600mm wide	No	1		
14	"CH" Slophopper 540 x 540mm with grid (flushing valve elsewhere)	No	1		
15	"EC6" combination bedpan and wash up sink and drainer 1 830 x 685mm wide including "Cobra" FM1.00 flushvalve, "CP171/041" pillar mixer with overarm swivel spout, "CP297" pillar mixer with retractable hand spray, 15mm bedpan spray nozzle and 15mm bottle spray nozzle	No	1		
16	"S2" catering sink with integral splash back size 1 500 x 650mm wide	No	1		
	<u>"Vulcan"</u>				
17	"SCBS" preparation sink with integral splash back size 1 650 x 650mm wide with single centre bowl	No	1		
18	"DCBPS" Double bowl pot sink with integral splash back size 1 850 x 650mm wide	No	1		
	<u>"Vaal"</u>				
19	"Hibiscus 7050" 510 x 405mm white basin with two tapholes	No	1		
20	"Sola 610" 610 x 460mm white medical basin (no tapholes)	No	1		
21	"Cameo" 595 x 455mm white vanity basin with two tapholes	No	1		
22	"Pearl paraplegic 7300SC" semi closed coupled wc suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern with purpose made side flush lever	No	1		
23	"Hibiscus 772654" close coupled wc suite comprising pan with double flap heavy duty plastic seat and 6/3 litre duel flushing cistern	No	1		
24	"Lavatera 705427" wall urinal with spreader (flushing valve elsewhere)	No	1		
Carried to Collection				R	
Section 2					
Bill No. 13					
Plumbing and Drainage (Provisional)					
Completion of Ethandakukhanya Community Health Centre					
Mpumalanga Province					

<u>"Medical Innovations (Pty) Ltd" (tel. 021 - 853 8411)</u>					
25	Scrub-up surgeon unit size 2100 x 540 x 258mm deep complete with three taps wall fixing plate and 90mm diameter basket strainer waste	No	1		
<u>WASTE UNIONS, ETC</u>					
<u>"Cobra Watertech"</u>					
26	32mm "308CP" Basin waste union	No	1		
27	32mm "303CP" Basin waste union with "309CP" anti-theft plug and spindle	No	1		
28	40mm "316CP" Bath or sink waste union with "309CP" anti-theft plug and spindle	No	1		
<u>TRAPS, ETC</u>					
<u>"Dutton Plastics Engineering" (tel: 011 - 617 5000)</u>					
29	32mm "DB20A/V" White uPVC anti-vac bottle trap	No	1		
30	40mm "DB22A/V" White uPVC anti-vac bottle trap	No	1		
<u>"Cobra Watertech"</u>					
31	40mm "365/50CP" bottle trap	No	1		
<u>"Milga"</u>					
32	40mm Stainless steel shower trap including grating	No	1		
<u>TAPS, VALVES, ETC</u>					
<u>Brass</u>					
33	15mm Lever valve	No	1		
34	15mm Fullway gate valve	No	1		
35	22mm Fullway gate valve	No	1		
36	22mm Bibcock with hose union	No	1		
Carried to Collection				R	
Section 2					
Bill No. 13					
Plumbing and Drainage (Provisional)					
Completion of Ethandakukhanya Community Health Centre					
Mpumalanga Province					

	<u>"Cobra Watertech"</u>				
37	15mm "232/350CP" angle regulating valve with 350mm flexi hose	No	1		
38	15mm "832/350F" angle regulating valve with 350mm flexi hose	No	1		
39	15mm "107ECCP Star" bibcock without hose union	No	1		
40	15mm "505-21CP" elbow action pillarcock with "P-WS/6" water saving aerator	No	1		
41	15mm "515/055-21CP" wall mounted medical mixer with "P-WS/6" water saving aerator	No	1		
42	15mm "Noka NA-952" basin mixer with "P-WS/6" water saving aerator	No	1		
43	15mm "Carina 166/041CA" sink mixer	No	1		
44	20mm "Stella" Shower set complete with shower arm, shower head and two undertile stop taps	No	1		
45	15mm "Noka NA-956" shower mixer	No	1		
46	15mm "Multi-jet" handshower attachment and "P-WS/9L" water saving aerator complete with "007MJ/CP" handshower, "003/1" rail with sliding holder, "AP8.311" handshower fitting and "008/5C" flexible tubing	No	1		
47	"PB1.10RB" vacuum breaker	No	1		
48	"PA1.1RB Kwikflow" 400 kPa pressure reducing valve	No	1		
49	FJ6.000 "Flushmaster Junior" urinal flush valve	No	1		
50	15mm "Cobra FM1.00" slop hopper flush valve	No	1		
Carried to Collection					R
Section 2					
Bill No. 13					
Plumbing and Drainage (Provisional)					
Completion of Ethandakukhanya Community Health Centre					
Mpumalanga Province					

SANITARY PLUMBINGuPVC pipes

51	50mm Pipes	m	6
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52	110mm Pipes	m	6
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Extra over uPVC pipes for fittings

53	50mm Bend	No	6
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54	110mm Bend	No	6
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55	50mm Junction	No	6
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56	110mm Pan connector	No	1
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57	50mm Access bend	No	6
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58	110mm Access bend	No	6
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59	50mm Access junction	No	6
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60	110mm Access Junction	No	6
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61	110mm Access bend with anti-syphon horn	No	5
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62	50mm Access reducing junction	No	5
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63	50mm "GI Two-way" vent valve	No	5
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64	110mm "GI Two-way" vent valve	No	5
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Sundries

65	Testing waste pipe system		Item
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WATER SUPPLIESClass 0 copper pipes

66	15mm Pipes	m	6
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67	15mm Pipes chased into brick walls	m	6
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Carried to Collection

R

Section 2
 Bill No. 13
 Plumbing and Drainage (Provisional)
Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province

Provisional Bills of Quantities

[illegible]

Section 2

Bill No. 13

Plumbing and Drainage (Provisional)

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

102

103

104

105

106

107

108

109

110

111

112

Carried Forward to Summary of Section No. 2

R

Section 2

Bill No. 13

Plumbing and Drainage (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No		Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>BILL NO. 14</u>				
<u>GLAZING</u>				
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 150 for CPAP formula purposes.				
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill				
Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."				

<u>GLAZING TO STEEL WITH PUTTY</u>				
<u>6,38mm Normal strength clear laminated safety glass</u>				
1	Panes exceeding 0,1 and not exceeding 0,5m2	m2	1	
2	Panes exceeding 0,5m2 and not exceeding 1m2	m2	1	
<u>6,38mm Normal strength obscure laminated safety glass</u>				
3	Panes exceeding 0,1 and not exceeding 0,5m2	m2	1	
<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>				
<u>6mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u>				
4	Mirror 400 x 600mm high with four screws	No	8	
5	Mirror 450 x 600mm high with four screws	No	8	
6	Mirror 400 x 800mm high with four screws	No	8	
Carried to Collection				
Section 2 Bill No. 14 Glazing Completion of Ethandakukhanya Community Health Centre Mpumalanga Province				

[illegible]

Section 2

Bill No. 14

Glazing

COLLECTION

Total Brought Forward from Page No.

**Page
No**

114

115

Amount**Carried Forward to Summary of Section No. 2**

R

Section 2

Bill No. 14

Glazing

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No		Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>BILL NO. 15</u>				
<u>PAINTWORK</u>				
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 152 for CPAP formula purposes.				
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill				
Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."				

<u>PAINTWORK, ETC. TO NEW WORK</u>				
<u>ON INTERNAL FLOATED PLASTER SURFACES</u>				
<u>One coat merit plaster primer thinned with 20% mineral turpentine and two coats Plascon Double Velvet Pure Acrylic emulsion paint</u>				
1	On internal walls	m2	400	
2	On ceilings and beams	m2	32	
<u>ON PREVIOUSLY PAINTED WALLS</u>				
<u>One coat Plascon Double Velvet Pure Acrylic emulsion paint</u>				
3	On internal walls	m2	6,600	
4	On ceilings and beams	m2	250	
<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>				
Carried to Collection				
Section 2 Bill No. 15 Paintwork Completion of Ethandakukhanya Community Health Centre Mpumalanga Province				

	<u>One coat merit plaster primer thinned 20% with mineral turpentine and two coats Plascon Wall & All emulsion paint</u>				
5	On walls	m2	180		
6	On ceilings and beams	m2	14		
	<u>ON EXTERNAL PREVIOUSLY PAINTED WALLS</u>				
	<u>One coat Plascon Wall & All emulsion paint</u>				
7	On walls	m2	1,900		
8	On ceilings and beams	m2	75		
	<u>ON METAL</u>				
	<u>Spot priming defects in pre-primed surfaces with Namelcoat synthetic metal primer, one coat merit universal undercoat and one coat Plascon Velvaglo Satin Polyurethane enamel paint on steel</u>				
9	On door frames	m2	373		
10	On gates, grilles, burglar screens, balustrades, etc. (both sides measured over the full flat area)	m2	3		
11	On windows with burglar bars	m2	632		
12	On columns and beams	m2	129		
	<u>ON WOOD</u>				
	<u>One coat Plascon Double Velvaglo Satin Polyurethane enamel paint</u>				
13	On doors	m2	52		
	<u>Three coats "Woodoc" varnish including sanding between each coat</u>				
14	On doors	m2	5		
15	On roof timbers (Provisional)	m2	5		
	Carried to Collection			R	
	Section 2				
	Bill No. 15				
	Paintwork				
	Completion of Ethandakukhanya Community Health Centre Mpumalanga Province				

[illegible]

Section 2

Bill No. 15

Paintwork

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

117

118

119

Carried Forward to Summary of Section No. 2

R

Section 2

Bill No. 15

Paintwork

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Bill No	SECTION SUMMARY - Main Building	Page No	Amount	
1	Alterations	42		
2	Masonry	46		
3	Waterproofing	49		
4	Roof Coverings, etc	54		
5	Carpentry and Joinery	62		
6	Ceilings, Partitions and Access Flooring	68		
7	Floor Coverings, Plastic Linings, etc	74		
8	Ironmongery	83		
9	Metalwork	88		
10	Structural Steelwork (Provisional)	91		
11	Plastering	97		
12	Tiling	101		
13	Plumbing and Drainage (Provisional)	113		
14	Glazing	116		
15	Paintwork	120		
Carried to Final Summary			R	
Section 2 Completion of Ethandakukhanya Community Health Centre Mpumalanga Province				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 1</u>			
	<u>ROOF COVERINGS ETC</u>			
	Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes.			
	Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
	Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			

	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,55mm "Safintra Saflok 700 Zincal AZ150" interlocking roof sheeting with "Colorplus AZ150" finish on one side in single lengths fixed to steel purlins with "Denso LDP 300" isolation tape between aluminium SL700 clips and purlins with minium 3 "Safintra Fixtite" wafer head self-tapping fasteners in strict accordance with manufacturer's specifications. All exposed overhangs needs to be positively fixed using a High Wind Load clip to allow for thermal cycling. If the design does not allow for positive fixing a strong, wind resistant soffit must be installed under the overhang area. Installation by a Safintra Approved Contractor including all necessary sealer strips on overlaps, closure pieces, etc. all complete. A written and approved five year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer.</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	20	
2	Apex flashing 660mm girth 3 (three) times bent and notched on site to suit roof profile	m	10	
3	Barge flashing 660mm girth 3 (three) times bent and notched on site to suit roof profile	m	10	
	Carried to Collection			
	Section 3			
	Bill No. 1			
	Roof Coverings			
	Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

Provisional Bills of Quantities

[illegible]

Section 3
Bill No. 1
Roof Coverings

COLLECTION

Total Brought Forward from Page No.

**Page
No**

122

123

Amount

Carried Forward to Summary of Section No. 3

Section 3
Bill No. 1
Roof Coverings
**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

Item No	Quantity	Rate	Amount
<u>SECTION NO. 3</u>			
<u>BILL NO. 2</u>			
<u>CARPENTRY AND JOINERY</u>			
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 126 for CPAP formula purposes.			
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
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			
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			
<u>Joinery</u>			
Descriptions of frames shall be deemed to include frames, transomes, rails, etc.			
Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts			
<u>Decorative thermosetting plastic laminate covering</u>			
Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish			
Carried to Collection			R
Section 3 Bill No. 2 Carpentry and Joinery Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

FITTINGS

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

All components and materials of each fitting must be exactly as specified and detailed on the relevant Architects drawings.

No alternative materials will be accepted.

All lockable drawers will have front mounted locks.

All locks are to be suitable for master and grand master key operation.

Manufacture, supply and install complete CUPBOARDS

Carried to Collection

Section 3

Bill No. 2

Carpentry and Joinery

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

Provide all labour, materials, plant and equipment necessary for the supply delivery, and installation of the purpose made joinery fittings as specified on the Architects drawings and schedules.

Work shall include but not limited to :

Manufacture :

Precision fabrication of the joinery fittings, (e.g. cupboards, cabinets, counters, shelving, doors, drawer units, skirting or other specified built in units) to Architects detail, using approved timber board, or composite materials.

All dimensions to be verified on site prior to manufacture.

Materials and Finishes :

All joinery shall be made from approved quality materials approved by the Architect. Exposed surfaces to receive approved finishes such as veneer, high pressure laminate polyurethane spray paint and or granite as a finish material. Hardwood to include hinges, locks, handles, drawer runners, and other accessories of specified and approved quality.

Supply and delivery :

Transport and delivery of joinery units to site in protective packaging ensuring no damage during transit or off loading. Fix joinery units into position true plumb, and level, securely anchored to adjoining structure (walls, floor or ceilings) using approved fixings.

Provide scribing trimming, and adjustments for accurate fit against site conditions. Seal all joints neatly.

Ironmongery and accessories:

Provide and install all required fittings and accessories, including but not limited to hinges, knobs, pulls, soft close mechanisms, locks, escutcheons, and gaskets.

Workmanship:

All joinery must comply with SABS standards (or project specifications). Edges to be smooth, corners aligned, and surfaces free of defects. Joins to be tight and well trimmed.

On Completion:

On completion protect joinery against damage until handover. Replace or repair any defective or damaged work at no extra costs to the client.

BUDGETARY ALLOWANCES

1	Provide the sum of R 20, 000.00 (Twenty Thousand Rand) for carpentry and joinery, complete	Item	20,000.00
Carried to Collection		R	
Section 3 Bill No. 2 Carpentry and Joinery Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

Section 3

Bill No. 2

Carpentry and Joinery

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

125

126

127

Carried Forward to Summary of Section No. 3

R

Section 3

Bill No. 2

Carpentry and Joinery

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 3</u>			
<u>BILL NO. 3</u>			
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 129 for CPAP formula purposes. Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
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			
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			
<u>Ceilings</u>			
Unless otherwise described ceilings shall be deemed to be horizontal			
<u>Bulkheads</u>			
Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. Their purpose is either to conceal services or to create architectural features			
Carried to Collection			R
Section 3 Bill No. 3 Ceilings, Partitions and Access Flooring Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions are more than 900mm such portions of ceilings have been included in the appropriate general items of ceilings

Unless otherwise described bulkheads shall be deemed to be horizontal along the length

Steel components

All steel components for ceilings, partitions, etc. are to be galvanised in accordance with SANS 121

SUSPENDED CEILINGS

Proprietary suspended ceilings

Hangers, suspension grids, "lay-in" panels, etc. are to be in accordance with the manufacturers' recommendations

Electrical light fittings, diffusers, panels, etc. are generally "lay-in" units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognizance thereof)

Flush plastered gypsum plasterboard suspended ceilings

Ceilings shall comprise of 12,5mm gypsum plasterboard boards screwed to and including screw-up suspension grid consisting of main tees at 1 200mm centres and galvanised steel capped cross tees at 400mm centres and with tape fixed over joints and the whole finished with gypsum plaster trowelled to a smooth polished surface

The grid shall be suspended by means of galvanised steel L-section hangers at suitable centres, securely shot-pinned or screwed to concrete, steel or wood

Carried to Collection

Section 3

Bill No. 3

Ceilings, Partitions and Access Flooring

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

Flush plastered gypsum plasterboard suspended bulkheads

Bulkheads shall comprise galvanised steel studding of 63,5mm top and bottom tracks with vertical studs at maximum 400mm centres, pop-riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc. and covered as described with plasterboard screwed to studding with drywall screws at maximum 300mm centres. Boards shall be butt-jointed and finished with tape and jointing compound and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer

Descriptions shall be deemed to include any additional studs at ends and intersections, corner beads, cornices at junctions with ceilings, jointing compound, tape, etc.

1 200 x 600 x 12,5mm "BPB Gyprex White" vinyl clad ceiling panels on "Donn T38" pre-painted exposed tee suspension system including main and cross tees, necessary hangers, grids, etc.

1	Ceilings suspended not exceeding 1m below timber purlins at 1 200mm centres (trusses at 1 157mm centres)	m2	23		
	<u>Sundries to suspended ceilings</u>				
2	Extra over ceiling for opening for 600 x 1 200mm opening for light fitting (Provisional)	No	4		
	<u>"Donn" cornices to suspended ceilings</u>				
3	"LSM25" pre-painted cornices plugged	m	39		

Carried to Collection

R

Section 3
Bill No. 3
Ceilings, Partitions and Access Flooring
**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Section 3

Bill No. 3

Ceilings, Partitions and Access Flooring

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

129

130

131

Carried Forward to Summary of Section No. 3

R

Section 3

Bill No. 3

Ceilings, Partitions and Access Flooring

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 3</u>			
<u>BILL NO. 4</u>			
<u>IRONMONGERY</u>			
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 132 for CPAP formula purposes. Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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			
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>LOCKS</u>			
Carried to Collection		R	
Section 3 Bill No. 4 Ironmongery Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

	"Dorma"				
1	"D034S/SS" Multiple lever sash lock with "KH" escutcheons	No	1		
2	"D035S/SS" Bathroom sash lock	No	1		
	<u>HANDLES</u>				
	<u>"Dorma"</u>				
3	"TH120/WC/SS" Lever handle on rose with bathroom/WC furniture	No	1		
4	"TH120/SS" Lever handle on rose	Pairs	1		
	<u>LETTERS, NAMEPLATES, ETC</u>				
5	300 x 150mm High photoluminescent plate with "FIRE EXTINGUISHER" signage with and including natural anodized aluminium frame, drilled and plugged	No	1		
6	300 x 150mm High photoluminescent plate with "EXIT" signage with and including natural anodized aluminium frame, drilled and plugged	No	1		
7	450 x 150mm High photoluminescent plate with "FIRE CABINET" signage with and including natural anodized aluminium frame, drilled and plugged	No	1		
	<u>"BATHROOM FITTINGS"</u>				
	<u>"Approved Fittings"</u>				
8	Surface mounted stainless steel soap dispenser plugged (Prime Cost Amount R 1200.00/each)	No	1		
9	Surface mounted stainless steel wall mounted paper towel dispenser (Prime Cost Amount R 1200.00/each)	No	1		
10	Surface mounted stainless steel wall mounted toilet roll holder (Prime Cost Amount R 1200.00/each)	No	1		
11	Surface mounted stainless steel waste bin (Prime Cost Amount R 1200.00/each)	No	1		
	Carried to Collection			R	
	Section 3 Bill No. 4 Ironmongery Completion of Ethandakukhanya Community Health Centre Mpumalanga Province				

	<u>"Railman"</u>				
12	32mm Type DL3 dog leg grab rail plugged	No	11		
13	32mm Type SR1 side grab rail plugged	No	11		
Carried to Collection				R	
Section 3 Bill No. 4 Ironmongery Completion of Ethandakukhanya Community Health Centre Mpumalanga Province					

SUNDRIES"Dorma"

14	"DDS-NP-018" Floor mounted door stop plugged	No	21
15	"DHC-SS-030-A" rubber tipped hat and coat hook	No	21

Carried to Collection

R

Section 3
 Bill No. 4
 Ironmongery
**Completion of Ethandakukhanya Community Health Centre
 Mpumalanga Province**

Section 3

Bill No. 4

Ironmongery

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

133

134

135

136

Carried Forward to Summary of Section No. 3

R

Section 3

Bill No. 4

Ironmongery

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 5</u>			
	<u>STRUCTURAL STEELWORK (PROVISIONAL)</u>			
	Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 134 for CPAP formula purposes.			
	Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill. -----			
	Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Descriptions of bolts shall be deemed to include nuts and washers.			
	Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete -----			
	<u>STEEL COLUMNS AND BEAMS</u>			
	<u>Welded columns in single lengths with flat section base, top, bearer and connection plates bolted to steel or concrete</u>			
1	114.3 x 3.5mm Circular hollow section columns	t	0.05	
2	120 x 120 x 4mm Square hollow section columns	t	0.05	
	Carried to Collection			
	Section 3			
	Bill No. 5			
	Structural Steelwork (Provisional)			
	Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			
			R	

	<u>Welded beams in single lengths with flat section bearer and connection plates bolted to concrete columns</u>				
3	IPE 160 I-section beams	t	0.05		
4	IPE 200 I-section beams	t	0.05		
	<u>Bolts to columns, beams, etc</u>				
5	M16 holding down bolt (grade 8.8) 400mm long embedded in top of concrete	No	10		
6	150mm M12 chemical expansion bolt	No	10		
	<u>STEEL TRUSSES, FALSE RAFTERS, ETC</u>				
	<u>Welded roof trusses of angle section rails, struts, braces, cleats, etc. and flat section bearer, gusset and connection plates bolted to steel or concrete all complete as per engineers drawings, specifications and steel notes</u>				
7	Two mono-pitched trusses 21 904 x 1 500mm high extreme	t	0.05		
	<u>Bolts to trusses etc</u>				
8	150mm M12 chemical expansion bolt	No	10		
	<u>STEEL PURLINS, GIRTS, BRACING, ETC.</u>				
	<u>Purlins and girts bolted to steel, all complete as per engineers drawings, specifications and steel notes</u>				
9	Lipped channel section purlins	t	0.03		
	<u>Welded bracing, etc. with flat section connection plates bolted to steel, all complete as per engineers drawings, specifications and steel notes</u>				
10	Angle section cross bracing	t	0.03		
11	Angle section knee bracing	t	0.03		
12	Angle section sag rails	t	0.03		
	Carried to Collection			R	
	Section 3				
	Bill No. 5				
	Structural Steelwork (Provisional)				
	Completion of Ethandakukhanya Community Health Centre				
	Mpumalanga Province				

R

R

R

Section 3

Bill No. 5

Structural Steelwork (Provisional)

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

138

139

140

Carried Forward to Summary of Section No. 3

R

Section 3

Bill No. 5

Structural Steelwork (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 6</u>			
	<u>PLASTERING</u>			
	Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 142 for CPAP formula purposes.			
	Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
	Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			

	<u>SCREEDS</u>			
	<u>1:4 Cement plaster screeds wood floated on concrete</u>			
1	30mm Thick on floors and landings	m2	3	
2	Average 40mm thick on roofs with upper surface to falls	m2	1	
3	100 x 100mm Triangular fillet at junction of slab and beam or wall	m	1	
	<u>INTERNAL PLASTER</u>			
	<u>One coat plaster (1:5) on brickwork with small parts on concrete, wood floated for tiles</u>			
4	On walls	m2	2	
5	On narrow widths not exceeding 300mm wide	m2	0.2	
	<u>One coat plaster (1:5) on brickwork with small parts on concrete, steel trowelled</u>			
6	On walls	m2	2	
	Carried to Collection			
	Section 3			
	Bill No. 6			
	Plastering			
	Completion of Ethandakukhanya Community Health Centre			
	Mpumalanga Province			
			R	

Provisional Bills of Quantities

[illegible]

EXTERNAL PLASTEROne coat scratch plaster (1:5) on brickwork with small parts on concrete

9	On walls	m2	3
10	On narrow widths not exceeding 300mm wide	m2	2
11	On sloping top, edge and projecting soffit of sills 415mm girth	m	2
<u>One coat plaster (1:5) wood floated on concrete</u>			
12	On ceilings and beams	m2	2

CORNER PROTECTORS, DIVIDING STRIPS, ETC

13	2,5 x 20mm Flat section aluminium dividing strips between different floor finishes	m	4
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Carried to Collection

R

Section 3

Bill No. 6

Plastering

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Section 3

Bill No. 6

Plastering

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

142

143

144

Carried Forward to Summary of Section No. 3

R

Section 3

Bill No. 6

Plastering

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 3</u>			
<u>BILL NO. 7</u>			
<u>TILING</u>			
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 144 for CPAP formula purposes.			
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc. shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors, etc. shall be deemed to include 1:3 plaster bedding			
Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat			
Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Professional" range of products as recommended by the manufacturer of the tiles			

<u>WALL TILING</u>			
Carried to Collection			R
Section 3 Bill No. 7 Tiling Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

Section 3
Bill No. 7
Tiling

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

FLOOR TILING

300 x 300mm x 8mm Porcelain floor tiles (Prime Cost Amount R 300.00/m2) fixed with adhesive to bedding (bedding elsewhere) and flush pointed with "Tal Wall & Floor Grout" (Dark Grey) jointing compound

4	On floors and landings	m2	24
5	Skirting 100mm high	m	35

CORNER PROTECTORS, DIVIDING STRIPS, ETC

"Kirk Marketing"

6	"SSE080" Stainless steel straight edge trims	m	3
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Carried to Collection

R

Section 3

Bill No. 7

Tiling

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Section 3

Bill No. 7

Tiling

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

146

147

148

Carried Forward to Summary of Section No. 3

R

Section 3

Bill No. 7

Tiling

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 3</u>			
<u>BILL NO. 8</u>			
<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 146 for CPAP formula purposes. Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Wire gratings</u>			
Descriptions of gutter outlets, etc. shall be deemed to include wire balloon gratings			
<u>Stormwater channels</u>			
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc., and disposal of surplus material on site			
<u>French drains</u>			
Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site			
Carried to Collection			R
Section 3			
Bill No. 8			
Plumbing and Drainage (Provisional)			
Completion of Ethandakukhanya Community Health Centre			
Mpumalanga Province			

Septic tanks

Descriptions of proprietary type septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc., all in accordance with the manufacturer's instructions and disposal of surplus material on site

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

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

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

Stainless steel for laboratory sinks, photographic equipment, etc. shall be Type 316 (18/8)

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable

Sealing of edges

Outer edges of sinks, basins, baths, urinals, etc. are to be sealed against adjacent surfaces with approved silicone

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

Carried to Collection

Section 3

Bill No. 8

Plumbing and Drainage (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

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-siphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016

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

Reducing fittings

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

Carried to Collection

Section 3

Bill No. 8

Plumbing and Drainage (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

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 (provision for disinfection elsewhere)

"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 20% 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

Laying, backfilling, bedding, etc. of pipes

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

Carried to Collection

Section 3

Bill No. 8

Plumbing and Drainage (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

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 to a minimum of 93% Mod AASHTO density and disposal of surplus material on site

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

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

Carried to Collection

Section 3

Bill No. 8

Plumbing and Drainage (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

As-built drawings

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

SANITARY FITTINGS"Franke" stainless steel

- | | | | |
|---|---|----|---|
| 1 | "Projectline PLN 611" sink and drainer 800 x 460mm wide with one bowl | No | 1 |
|---|---|----|---|

"Vaal"

- | | | | |
|---|---|----|---|
| 2 | "Hibiscus 7050" 510 x 405mm white basin with two tapholes | No | 1 |
|---|---|----|---|

- | | | | |
|---|---|----|---|
| 3 | "Pearl Paraplegic" semi close coupled wc suite (code 7300SC) comprising pan with double flap heavy duty plastic seat and 9 litre cistern complete | No | 1 |
|---|---|----|---|

WASTE UNIONS, ETC"Cobra Watertech"

- | | | | |
|---|---|----|---|
| 4 | 32mm "303CP" Basin waste union with "309CP" anti-theft plug and spindle | No | 1 |
|---|---|----|---|

- | | | | |
|---|--|----|---|
| 5 | 40mm "316CP" Bath or sink waste union with "309CP" anti-theft plug and spindle | No | 1 |
|---|--|----|---|

TRAPS, ETC"Dutton Plastics Engineering" (tel: 011 - 617 5000)

- | | | | |
|---|--|----|---|
| 6 | 32mm "DB20A/V" White uPVC anti-vac bottle trap | No | 1 |
|---|--|----|---|

- | | | | |
|---|--|----|---|
| 7 | 40mm "DB22A/V" White uPVC anti-vac bottle trap | No | 1 |
|---|--|----|---|

TAPS, VALVES, ETC

Carried to Collection

R

Section 3

Bill No. 8

Plumbing and Drainage (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

[illegible]

[illegible]

Section 3

Bill No. 8

Plumbing and Drainage (Provisional)

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

150

151

152

153

154

155

156

157

Carried Forward to Summary of Section No. 3

R

Section 3

Bill No. 8

Plumbing and Drainage (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 9</u>			
	<u>GLAZING</u>			
	Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 150 for CPAP formula purposes.			
	Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
	Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			

	<u>GLAZING TO STEEL WITH PUTTY</u>			
	<u>6,38mm Normal strength clear laminated safety glass</u>			
1	Panes exceeding 0,1 and not exceeding 0,5m2	m2	1	
2	Panes exceeding 0,5m2 and not exceeding 1m2	m2	1	
	<u>6mm Normal strength frosted laminated safety glass</u>			
3	Panes exceeding 0,1 and not exceeding 0,5m2	m2	1	
	<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>			
	<u>6mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u>			
4	Mirror 400 x 730mm high with four screws	No	1	
	Carried Forward to Summary of Section No. 3		R	
	Section 3			
	Bill No. 9			
	Glazing			
	Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

Item No		Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>BILL NO. 10</u>				
<u>PAINTWORK</u>				
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 152 for CPAP formula purposes.				
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill				
Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."				

<u>PAINTWORK, ETC. TO NEW WORK</u>				
<u>ON INTERNAL FLOATED PLASTER SURFACES</u>				
<u>One coat merit plaster primer thinned with 20% mineral turpentine and two coats Plascon Double Velvet Pure Acrylic emulsion paint</u>				
1	On internal walls	m2	150	
2	On ceilings and beams	m2	20	
<u>ON PREVIOUSLY PAINTED WALLS</u>				
<u>One coat Plascon Double Velvet Pure Acrylic emulsion paint</u>				
3	On internal walls	m2	200	
4	On ceilings and beams	m2	50	
<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>				
Carried to Collection				
Section 3 Bill No. 10 Paintwork Completion of Ethandakukhanya Community Health Centre Mpumalanga Province				

	<u>One coat merit plaster primer thinned 20% with mineral turpentine and two coats Plascon Wall & All emulsion paint</u>				
5	On walls	m2	180		
6	On ceilings and beams	m2	14		
	<u>ON EXTERNAL PREVIOUSLY PAINTED WALLS</u>				
	<u>One coat Plascon Wall & All emulsion paint</u>				
7	On walls	m2	150		
8	On ceilings and beams	m2	45		
	<u>ON METAL</u>				
	<u>Spot priming defects in pre-primed surfaces with Namelcoat synthetic metal primer, one coat merit universal undercoat and one coat Plascon Velvaglo Satin Polyurethane enamel paint on steel</u>				
9	On door frames	m2	20		
10	On gates, grilles, burglar screens, balustrades, etc. (both sides measured over the full flat area)	m2	33		
11	On windows with burglar bars	m2	12		
12	On columns and beams	m2	110		
	<u>ON WOOD</u>				
	<u>One coat Plascon Double Velvaglo Satin Polyurethane enamel paint</u>				
13	On doors	m2	17		
Carried to Collection				R	
Section 3 Bill No. 10 Paintwork Completion of Ethandakukhanya Community Health Centre Mpumalanga Province					

Section 3

Bill No. 10

Paintwork

COLLECTION

Total Brought Forward from Page No.

**Page
No**

160

161

Amount**Carried Forward to Summary of Section No. 3**

R

Section 3

Bill No. 10

Paintwork

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Bill No	SECTION SUMMARY - Guardhouse	Page No	Amount
1	Roof Coverings	124	
2	Carpentry and Joinery	128	
3	Ceilings, Partitions and Access Flooring	132	
4	Ironmongery	137	
5	Structural Steelwork (Provisional)	141	
6	Plastering	145	
7	Tiling	149	
8	Plumbing and Drainage (Provisional)	158	
9	Glazing	159	
10	Paintwork	162	
Carried to Final Summary			R
Section 3 Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

Item No	Quantity	Rate	Amount
<u>SECTION NO. 4</u>			
<u>BILL NO. 1</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 110 for CPAP formula purposes. Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Cost of tests</u>			
The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)			
Carried to Collection			R
Section 4 Bill No. 1 Concrete, Formwork and Reinforcement Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

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 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"

REINFORCED CONCRETE

25MPa/19mm concrete

1	Surface beds cast in panels on waterproofing	m3	1
---	--	----	---

MOVEMENT JOINTS ETC

Expansion joints with closed cell expanded polystyrene joint filler between vertical concrete and/or brick surfaces

2	10mm Joints not exceeding 300mm high	m	2
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REINFORCEMENT

(CPAP formula work group no. 114)

Carried to Collection

R

Section 4

Bill No. 1

Concrete, Formwork and Reinforcement

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Section 4
Bill No. 1
Concrete, Formwork and Reinforcement
**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Section 4

Bill No. 1

Concrete, Formwork and Reinforcement

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

164

165

166

Carried Forward to Summary of Section No. 4

R

Section 4

Bill No. 1

Concrete, Formwork and Reinforcement

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 2</u>			
	<u>WATERPROOFING</u>			
	Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 120 for CPAP formula purposes.			
	Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
	Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
	<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>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u>			
1	In walls	m2	1	
	<u>One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
2	Under surface beds	m2	1	
	Carried to Collection		R	
	Section 4			
	Bill No. 2			
	Waterproofing			
	Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

Section 4

Bill No. 2

Waterproofing

COLLECTION

Total Brought Forward from Page No.

**Page
No**

168

169

Amount**Carried Forward to Summary of Section No. 4**

R

Section 4

Bill No. 2

Waterproofing

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 4</u>			
<u>BILL NO. 3</u>			
<u>CARPENTRY AND JOINERY</u>			
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 126 for CPAP formula purposes.			
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
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			
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			
<u>Joinery</u>			
Descriptions of frames shall be deemed to include frames, transomes, rails, etc.			
Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts			
<u>Decorative thermosetting plastic laminate covering</u>			
Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish			
Carried to Collection			R
Section 4 Bill No. 3 Carpentry and Joinery Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

**PLATE NAILED TIMBER ROOF TRUSS
CONSTRUCTION, ETC.**

The following is applicable in respect of roof trusses:

Trusses are at maximum 1 200mm centres

Roof covering is galvanised "Saflok 700" roof sheeting with "Globalcoat" finish on one side on 50 x 75mm purlins at 1 199mm maximum centres.

Ceilings are generally nailed up ceilings.

All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 or SABS 1245.

Metal connector plates shall have a minimum yield strength of 228 MPa and a minimum ultimate tensile strength of 330 Mpa with hot-dip galvanised finish.

All joints to be close fitted butt joints.

Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.

The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.

Tenderers must study the roof plan and sections as attached to the back of these bills of quantities and must obtain prices from a qualified and registered roof truss supplier as no claims in this regard will be entertained.

Laminated timber roof truss construction

- | | |
|---|--|
| 1 | Provide the sum of R 5 000.00 (Five Thousand Rand) for sanding down and applying approved varnish to laminated beam as per the Architect specification |
| 2 | Allow for profit |

Item

5,000.00

Item

Carried to Collection

R

Section 4

Bill No. 3

Carpentry and Joinery

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

	<u>Sundries</u>				
3	Two coats creosote on sawn timbers	m2	20		
	<u>EAVES , VERGES , ETC</u>				
	<u>"Everite Flexit" pressed nutec-cement</u>				
4	15 x 225mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	40		
	<u>SKIRTINGS</u>				
	<u>Wrought meranti</u>				
5	19 x 76mm Skirting including 19mm quadrant bead nailed	m	20		
	<u>DOORS ETC</u>				
	<u>Semi-solid flush doors with sapele veneer on both sides hung to steel frames</u>				
6	44mm Door 813 x 2 032mm high (D4)	No	4		
	<u>Solid core horizontally slatted hardwood door with 3mm trim on each side, hung to steel frames</u>				
7	44mm Door 813 x 2 032mm high (D1)	No	4		
	<u>Solid flush doors with 3,2mm standard hardboard covering on both sides and with hardwood edge strips hung to steel frames</u>				
8	44mm Door 813 x 2 032mm high (D2)	No	4		
	<u>Wrought meranti doors hung to steel frames</u>				
9	44mm Framed batten door 813 x 2 032 mm high of 44 x 146 mm top rail and stiles, 22 x 146 mm middle ledge and braces and 22 x 222 mm bottom rail filled in with 22 mm V-jointed one side boarding and covered on other side with 3 mm plywood with veneer to match door let into and including rebates all round (D3)	No	4		
Carried to Collection				R	
Section 4					
Bill No. 3					
Carpentry and Joinery					
Completion of Ethandakukhanya Community Health Centre					
Mpumalanga Province					

FITTINGS

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

All components and materials of each fitting must be exactly as specified and detailed on the relevant Architects drawings.

No alternative materials will be accepted.

All lockable drawers will have front mounted locks.

All locks are to be suitable for master and grand master key operation.

Manufacture, supply and install complete CUPBOARDS

Carried to Collection

Section 4

Bill No. 3

Carpentry and Joinery

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

Provide all labour, materials, plant and equipment necessary for the supply delivery, and installation of the purpose made joinery fittings as specified on the Architects drawings and schedules.

Work shall include but not limited to :

Manufacture :

Precision fabrication of the joinery fittings, (e.g. cupboards, cabinets, counters, shelving, doors, drawer units, skirting or other specified built in units) to Architects detail, using approved timber board, or composite materials.

All dimensions to be verified on site prior to manufacture.

Materials and Finishes :

All joinery shall be made from approved quality materials approved by the Architect. Exposed surfaces to receive approved finishes such as veneer, high pressure laminate polyurethane spray paint and or granite as a finish material. Hardwood to include hinges, locks, handles, drawer runners, and other accessories of specified and approved quality.

Supply and delivery :

Transport and delivery of joinery units to site in protective packaging ensuring no damage during transit or off loading. Fix joinery units into position true plumb, and level, securely anchored to adjoining structure (walls, floor or ceilings) using approved fixings.

Provide scribing trimming, and adjustments for accurate fit against site conditions. Seal all joints neatly.

Ironmongery and accessories:

Provide and install all required fittings and accessories, including but not limited to hinges, knobs, pulls, soft close mechanisms, locks, escutcheons, and gaskets.

Workmanship:

All joinery must comply with SABS standards (or project specifications). Edges to be smooth, corners aligned, and surfaces free of defects. Joins to be tight and well trimmed.

On Completion:

On completion protect joinery against damage until handover. Replace or repair any defective or damaged work at no extra costs to the client.

BUDGETARY ALLOWANCES

- 10 Provide the sum of R 60, 000.00 (Sixty Thousand Rand) for carpentry and joinery, complete

Item

60,000.00

Carried to Collection

R

Section 4

Bill No. 3

Carpentry and Joinery

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Section 4

Bill No. 3

Carpentry and Joinery

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

171

172

173

174

175

Carried Forward to Summary of Section No. 4

R

Section 4

Bill No. 3

Carpentry and Joinery

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u> <u>BILL NO. 4</u> <u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u> Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 129 for CPAP formula purposes. Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved." <u>SUPPLEMENTARY PREAMBLES</u> <u>Descriptions:</u> Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere ----- <u>CEILINGS ETC</u> <u>Glass-wool insulation</u> 1 50mm Insulation closely fitted and laid on top of brandering between roof timbers etc m2 60 <u>NAILED UP CEILINGS</u>			
	Carried to Collection Section 4 Bill No. 4 Ceilings, Partitions and Access Flooring Completion of Ethandakukhanya Community Health Centre Mpumalanga Province		R	

	<u>6,4mm Herculite plasterboard with Bishoff H-profile steel jointing strips</u>				
2	Ceilings including 38 x 38mm sawn softwood bandering at 400mm centres in one direction	m2	50		
3	Extra over ceiling for 900 x 900mm trap door of 38 x 38mm wrought softwood rebated framing with one 150 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	2		
	<u>9,5mm Herculite plasterboard with 50mm wide strips of fibre tape taped over joints and the whole finished with "Rhino" glide trowelled to a smooth polished surface to the thickness recommended by the manufacturer</u>				
4	Sloping ceilings to exposed trusses including 38 x 38mm sawn softwood bandering at 400mm centres in one direction	m2	40		
	<u>Gypsum plasterboard cornices</u>				
5	75mm Coved cornices	m	100		
Carried to Collection					R
Section 4					
Bill No. 4					
Ceilings, Partitions and Access Flooring					
Completion of Ethandakukhanya Community Health Centre					
Mpumalanga Province					

Section 4

Bill No. 4

Ceilings, Partitions and Access Flooring

COLLECTION

Total Brought Forward from Page No.

**Page
No**

177

178

Amount**Carried Forward to Summary of Section No. 4**

R

Section 4

Bill No. 4

Ceilings, Partitions and Access Flooring

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

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	<u>"Dorma"</u>				
1	"D036S/SS" cylinder sash lock with 66mm ten pine euro-profile double cylinder "DDC106601MK"	No	1		
2	"D034S" multiple lever sash lock	No	1		
3	"D035S/SS" Bathroom sash lock	No	1		
	<u>HANDLES</u>				
	<u>"Dorma"</u>				
4	"TH120/SS" lever handle on rose with cylinder escutcheons	Pairs	1		
5	"TH120/SS" lever handle on rose with keyhole escutcheons	Pairs	1		
6	"TH120/WC/SS" lever handle on rose with bathroom furniture	Pairs	1		
	<u>"BATHROOM FITTINGS"</u>				
7	"Vaal 71511084" Surface mounted stainless steel soap dispenser plugged	No	4		
8	"Vaal 71511086" Surface mounted stainless steel wall mounted toilet roll holder	No	4		
9	"Franke FIRX104HP" Surface mounted stainless steel wall mounted towel ring	No	4		
10	"Franke BHM9P" Surface mounted stainless steel wall mounted towel rail	No	4		
	<u>SUNDRIES</u>				
	<u>"Dorma"</u>				
11	"DDS-NP-018" Floor mounted door stop plugged	No	4		
12	"CH150" Cabin hook	No	4		
	Carried to Collection			R	
	Section 4				
	Bill No. 5				
	Ironmongery				
	Completion of Ethandakukhanya Community Health Centre				
	Mpumalanga Province				

Section 4

Bill No. 5

Ironmongery

COLLECTION

Total Brought Forward from Page No.

**Page
No**

180

181

Amount**Carried Forward to Summary of Section No. 4**

R

Section 4

Bill No. 5

Ironmongery

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 4</u>			
<u>BILL NO. 6</u>			
<u>METALWORK</u>			
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 136 for CPAP formula purposes. Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions of bolts, anchors, etc.</u>			
Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres -----			
<u>STEEL GATES, SCREENS, ETC.</u>			
Carried to Collection			
Section 4 Bill No. 6 Metalwork Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			R

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Section 4

Bill No. 6

Metalwork

COLLECTION

Total Brought Forward from Page No.

**Page
No**

183

184

Amount**Carried Forward to Summary of Section No. 4**

R

Section 4

Bill No. 6

Metalwork

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 4</u>			
<u>BILL NO. 7</u>			
<u>PLASTERING</u>			
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 142 for CPAP formula purposes.			
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>GRANOLITH</u>			
<u>Method</u>			
The method to be used shall be either the monolithic method or the bonded method			
<u>Preparation</u>			
For granolith 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 granolith applied immediately thereafter. For granolith 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 granolith			
Carried to Collection			R
Section 4 Bill No. 7 Plastering Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

Mix

Granolith 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 granolith exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolith

Panels

Granolith 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 granolith. 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 granolith shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels

Bonded granolith 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 granolith. The granolith shall be thoroughly compacted and lightly wood floated to the required levels

After wood floating, the monolithic and bonded granolith 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

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

Carried to Collection

Section 4

Bill No. 7

Plastering

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

Colour

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

Carried to Collection

Section 4
Bill No. 7
Plastering
**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

SCREEDS1:4 Cement plaster screeds wood floated on concrete

1	30mm Thick on floors and landings	m2	2
2	Average 40mm thick on floors to falls	m2	1

GRANOLITHICUntinted granolithic on concrete

3	Average 40mm thick on floors with upper surface to falls	m2	0.4
4	Skirtings 75mm high	m	2

INTERNAL PLASTEROne coat plaster (1:5) on brickwork with small parts on concrete, wood floated for tiles

5	On walls	m2	2
6	On narrow widths not exceeding 300mm wide	m2	0.2

One coat plaster (1:5) on brickwork with small parts on concrete, steel trowelled

7	On walls	m2	2
8	On narrow widths	m2	0.2

One coat plaster (1:5) steel trowelled on concrete

9	On ceilings and beams	m2	2
---	-----------------------	----	---

EXTERNAL PLASTEROne coat plaster (1:5) on brickwork with small parts on concrete

10	On walls	m2	2
11	On narrow widths	m2	0.2
12	On sloping top, edge and projecting soffit of sills 415mm girth	m	0.4

Carried to Collection**R**

Section 4

Bill No. 7

Plastering

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

CORNER PROTECTORS, DIVIDING STRIPS, ETC

13

6 x 50mm Flat section brass dividing strips between
different floor finishes

m

4

Carried to Collection

R

Section 4

Bill No. 7

Plastering

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Section 4

Bill No. 7

Plastering

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

186

187

188

189

190

Carried Forward to Summary of Section No. 4

R

Section 4

Bill No. 7

Plastering

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 4</u>			
<u>BILL NO. 8</u>			
<u>TILING</u>			
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 144 for CPAP formula purposes.			
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc. shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors, etc. shall be deemed to include 1:3 plaster bedding			
Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat			
Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Professional" range of products as recommended by the manufacturer of the tiles			

<u>WALL TILING</u>			
Carried to Collection			R
Section 4 Bill No. 8 Tiling Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

	<u>250 x 250 x 8mm Glazed ceramic tiles (Prime Cost Amount R 200.00/m²) fixed with adhesive to plaster (plaster elsewhere)</u>			
1	On walls	m ²	20	
2	On walls in isolated panels, splashbacks, etc	m ²	4	
3	On narrow widths not exceeding 300mm wide	m ²	2	
	<u>25 x 25mm Glass mozaic tiles (Prime Cost Amount R350.00/m²) fixed with mozaic tile adhesive to cement plastered surfaces (plaster elsewhere) including jointing and waterproof grouting</u>			
4	Walls in 100mm wide panels	m ²	10	
	FLOOR TILING			
	<u>300 x 300mm x 8mm Slate tiles (Prime Cost Amount R 250.00/m²) fixed with adhesive to bedding (bedding elsewhere) and flush pointed with "Tal Wall & Floor Grout" (Dove grey) jointing compound</u>			
5	On floors and landings	m ²	100	
6	Skirting 100mm high	m	20	
	<u>300 x 300mm x 8mm Slip resistant ceramic tiles (Prime Cost Amount R 250.00/m²) fixed with adhesive to bedding (bedding elsewhere) and flush pointed with "Tal Wall & Floor Grout" (Dove grey) jointing compound</u>			
7	On floors and landings	m ²	60	
8	Skirting 100mm high	m	20	
	<u>47 x 47 x 6mm Glazed ceramic anti-slip mosaic tiles (Prime Cost Amount R 400.00/m²) fixed with adhesive to bedding (bedding elsewhere) and flush pointed with tinted waterproof jointing compound</u>			
9	On floors to falls	m ²	6	
	Carried to Collection			R
	Section 4 Bill No. 8 Tiling Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

Section 4

Bill No. 8

Tiling

COLLECTION

Total Brought Forward from Page No.

**Page
No**

192

193

Amount**Carried Forward to Summary of Section No. 4**

R

Section 4

Bill No. 8

Tiling

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 4</u>			
<u>BILL NO. 9</u>			
<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 146 for CPAP formula purposes. Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Wire gratings</u>			
Descriptions of gutter outlets, etc. shall be deemed to include wire balloon gratings			
<u>Stormwater channels</u>			
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc., and disposal of surplus material on site			
<u>French drains</u>			
Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site			
Carried to Collection			R
Section 4			
Bill No. 9			
Plumbing and Drainage (Provisional)			
Completion of Ethandakukhanya Community Health Centre			
Mpumalanga Province			

Septic tanks

Descriptions of proprietary type septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc., all in accordance with the manufacturer's instructions and disposal of surplus material on site

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

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

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

Stainless steel for laboratory sinks, photographic equipment, etc. shall be Type 316 (18/8)

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable

Sealing of edges

Outer edges of sinks, basins, baths, urinals, etc. are to be sealed against adjacent surfaces with approved silicone

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

Carried to Collection

Section 4

Bill No. 9

Plumbing and Drainage (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

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-siphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016

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

Reducing fittings

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

Carried to Collection

Section 4

Bill No. 9

Plumbing and Drainage (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

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 (provision for disinfection elsewhere)

"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 20% 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

Laying, backfilling, bedding, etc. of pipes

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

Carried to Collection

Section 4

Bill No. 9

Plumbing and Drainage (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

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 to a minimum of 93% Mod AASHTO density and disposal of surplus material on site

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

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

Carried to Collection

Section 4

Bill No. 9

Plumbing and Drainage (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

As-built drawings

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

RAINWATER DISPOSAL

0,6mm "Watertite Guttering" domestic ogee profile seamless gutter with "Chromadek" finish

1	150 x 150mm Eaves gutters	m	32
2	Extra over 150 x 150mm eaves gutter for stopped end	No	8
3	Extra over 150 x 150mm eaves gutter for outlet for 100 x 100mm pipe	No	6
4	100 x 100mm Diameter rainwater pipes	m	16
5	Extra over 100 x 100mm rainwater pipe for eaves or plinth offset	No	6
6	Extra over 100 x 100mm rainwater pipe for bend	No	18
7	Extra over 100 x 100mm rainwater pipe for shoe	No	6

SANITARY FITTINGS

"Franke" stainless steel

8	"CVN621" sink and drainer 1 235 x 435mm wide with double bowl	No	
9	"Luxtub ET101" wash trough 540 x 430 x 348mm wide	No	

"Vaal"

10	"Hibiscus 71500" 510 x 405mm white basin with two tapholes	No	1
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Carried to Collection

R

Section 4

Bill No. 9

Plumbing and Drainage (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

11	"Hibiscus 772402" close coupled wc suite comprising pan with double flap heavy duty plastic seat and 6/3 litre duel flushing cistern	No	1		
	<u>WASTE UNIONS, ETC</u>				
	<u>"Cobra Watertech"</u>				
12	32mm "303CP" Basin waste union with "309CP" anti-theft plug and spindle	No	2		
13	40mm "316CP" Bath or sink waste union with "309CP" anti-theft plug and spindle	No	2		
	<u>TRAPS, ETC</u>				
	<u>"Dutton Plastics Engineering" (tel: 011 - 617 5000)</u>				
14	32mm "DB20A/V" White uPVC anti-vac bottle trap	No	4		
15	40mm "DB22A/V" White uPVC anti-vac bottle trap	No	4		
16	40 x 300mm Sink combination for double bowl with deepseal "P" trap	No	4		
	<u>"Cobra Watertech"</u>				
17	"323CP" 76mm Stainless steel shower trap including grating	No	4		
	<u>TAPS, VALVES, ETC</u>				
	<u>Brass</u>				
18	22mm Fullway gate valve	No	4		
19	22mm Bibcock with hose union	No	4		
	<u>"Cobra Watertech"</u>				
20	15mm "232/350CP" angle regulating valve with 350mm flexi hose	No	4		
21	15mm "832/350F" angle regulating valve with 350mm flexi hose	No	4		
Carried to Collection				R	
Section 4					
Bill No. 9					
Plumbing and Drainage (Provisional)					
Completion of Ethandakukhanya Community Health Centre					
Mpumalanga Province					

22	15mm "209/1-15x3/4" hose bibtap	No	4		
23	15mm "128CA-15 Carina" stoptap	No	4		
24	15mm "114CA-15 Carina" pillar taps with streamline outlet	No	4		
25	15mm "166/041CP Carina" wall type sink mixer	No	4		
26	20mm "065" Showerhead	No	4		
27	"PB1.10RB" vacuum breaker	No	4		
28	"PA1.1RB Kwikflow" 400 kPa pressure reducing valve	No	4		
<u>SANITARY PLUMBING</u>					
<u>uPVC pipes</u>					
29	50mm Pipes	m	6		
30	110mm Pipes	m	6		
<u>Extra over uPVC pipes for fittings</u>					
31	50mm Bend	No	4		
32	110mm Bend	No	4		
33	50mm Junction	No	4		
34	110mm Pan connector	No	1		
35	50mm Access bend	No	4		
36	110mm Access bend	No	4		
37	50mm Access junction	No	4		
38	110mm Access Junction	No	4		
39	110mm Access bend with anti-syphon horn	No	2		
40	50mm Access reducing junction	No	2		
41	110mm "GI Two-way" vent valve	No	4		
Carried to Collection				R	
Section 4					
Bill No. 9					
Plumbing and Drainage (Provisional)					
Completion of Ethandakukhanya Community Health Centre					
Mpumalanga Province					

[illegible]

Section 4

Bill No. 9

Plumbing and Drainage (Provisional)

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

195

196

197

198

199

200

201

202

203

Carried Forward to Summary of Section No. 4

R

Section 4

Bill No. 9

Plumbing and Drainage (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 11</u>			
	<u>PAINTWORK</u>			
	Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 152 for CPAP formula purposes.			
	Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
	Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			

	<u>PAINTWORK, ETC. TO NEW WORK</u>			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat merit plaster primer thinned with 20% mineral turpentine, one layer universal undercoat and two coats Plascon Wall & All emulsion paint</u>			
1	On internal walls	m2	140	
2	On ceilings and beams	m2	80	
	<u>One coat merit plaster primer thinned with 20% mineral turpentine and two coats Plascon Double Velvagio Satin Polyurethane enamel paint</u>			
3	On internal walls	m2	40	
	<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat merit plaster primer thinned with 20% mineral turpentine and two coats Plascon Wall & All emulsion paint</u>			
4	On external walls	m2	30	
	Carried to Collection			
	Section 4			
	Bill No. 11			
	Paintwork			
	Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			
			R	

5	On sloping top, edge and projecting soffit of sills 415mm girth	m	10		
	<u>ON PLASTERBOARD</u>				
	<u>One coat primer and two coats interior quality PVA emulsion paint</u>				
6	On ceilings and cornices	m2	80		
	<u>ON FIBRE-CEMENT</u>				
	<u>One coat merit plaster primer thinned with 20% mineral turpentine and two coats Plascon Polvin Super Acrylic emulsion paint</u>				
7	On fascias and barge boards	m2	60		
8	On window sills not exceeding 300mm girth	m	6		
	<u>ON METAL</u>				
	<u>Spot priming defects in pre-primed surfaces with Namelcoat synthetic metal primer, one coat merit universal undercoat and two coats Plascon Velvaglo Satin Polyurethane enamel paint on steel</u>				
9	On door frames	m2	12		
10	On windows with burglar bars	m2	12		
11	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	4		
	<u>ON WOOD</u>				
	<u>Three coats "Woodoc" varnish including sanding between each coat</u>				
12	On doors	m2	6		
13	On roof timbers	m2	20		
Carried to Collection				R	
Section 4					
Bill No. 11					
Paintwork					
Completion of Ethandakukhanya Community Health Centre					
Mpumalanga Province					

	<u>One coat wood primer, one coat universal undercoat and two coats Plascon Double Velvagio Satin Polyurethane enamel paint</u>				
14	On doors	m2	12		
15	On skirtings, rails, etc not exceeding 300 mm girth	m	20		
Carried to Collection					R
Section 4					
Bill No. 11					
Paintwork					
Completion of Ethandakukhanya Community Health Centre Mpumalanga Province					

Section 4

Bill No. 11

Paintwork

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

206

207

208

Carried Forward to Summary of Section No. 4

R

Section 4

Bill No. 11

Paintwork

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Bill No	SECTION SUMMARY - 2 Bedroom Staff Housing Unit x 2	Page No	Amount
1	Concrete, Formwork and Reinforcement	167	
2	Waterproofing	170	
3	Carpentry and Joinery	176	
4	Ceilings, Partitions and Access Flooring	179	
5	Ironmongery	182	
6	Metalwork	185	
7	Plastering	191	
8	Tiling	194	
9	Plumbing and Drainage (Provisional)	204	
10	Glazing	205	
11	Paintwork	209	
Carried to Final Summary Section 4 Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			
			R

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 1</u>			
	<u>EXTERNAL WORKS: STORMWATER DRAINAGE (PROVISIONAL)</u>			
	Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 146 for CPAP formula purposes.			
	Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
	Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Preambles, supplementary preambles and items in previous bills are equally applicable to the bill following and tenderers are referred to such previous bills for full descriptions which are equally applicable to work in the bill following, unless otherwise described			

	<u>SUB-SOIL DRAINAGE</u>			
1	19mm Crushed stone encasing to pipes	m3	6	
2	"Geomesh BSP 262" filter material wrapped around stone filling with 50mm side and 300mm end laps including stitching	m2	20	
3	160mm uPVC slotted pipework including short lengths and couplings laid in crushed stone filling (elsewhere) (no excavations)	m	48	
4	Extra for 160mm bend	No	2	
5	Extra for 160mm junction	No	2	
	Carried to Collection			
	Section 5			
	Bill No. 1			
	Stormwater (Provisional)			
	Completion of Ethandakukhanya Community Health Centre			
	Mpumalanga Province			

Reinforced concrete pipework with interlocking joints (SANS 677) including short lengths and couplings laid in ground including excavating, bedding, back-filling and compaction, and disposal of surplus material

6	300mm Diameter class 50D pipe exceeding 1m and not exceeding 2m deep	m	6		
	<u>Sumps, catchpits, inspection chambers, etc (gratings and covers elsewhere)</u>				
7	Junction box 1 000 x 1 460mm exceeding 750mm and not exceeding 1 000mm deep internally	No	2		
	<u>Gratings, covers, etc</u>				
8	1 000 x 1460 x 100mm Thick precast concrete removable cover including lifting hooks	No	2		
	<u>Sundries</u>				
9	Extra over excavating for pipe trenches in earth for excavating in soft rock	m3	2		
	<u>Testing</u>				
10	Allow for testing the whole of the stormwater drainage system and for re-testing after removing and replacing all defective work to the entire satisfaction of the principal agent. The contractor has to provide all testing apparatus and labour and has to follow the principal agent's instructions implicitly			Item	
	<u>BUDGETARY ALLOWANCES</u>				
11	Provide the sum of R 150, 000.00 (One hundred and fifty Thousand Rand) for Storm water alterations as per the Engineers design.			Item	150,000.00

R

-212-

Section 5

Bill No. 1

Stormwater (Provisional)

COLLECTION

Total Brought Forward from Page No.

**Page
No**

211

212

Amount

Carried Forward to Summary of Section No. 5

Section 5

Bill No. 1

Stormwater (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

R

Item No	Quantity	Rate	Amount
<u>SECTION NO. 5</u>			
<u>BILL NO. 2</u>			
<u>EXTERNAL WORKS: WATER SUPPLY</u>			
Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 146 for CPAP formula purposes.			
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<u>SUPPLEMENTARY PREAMBLES</u>			
Preambles, supplementary preambles and items in previous bills are equally applicable to the bill following and tenderers are referred to such previous bills for full descriptions which are equally applicable to work in the bill following, unless otherwise described -----			
<u>DOMESTIC WATER SUPPLY</u>			
<u>uPVC pipework including short lengths and couplings laid in ground including excavating, bedding, back-filling and compaction, and disposal of surplus material</u>			
1	75mm Diameter class 9 uPVC not exceeding 1m deep	m	6
2	75mm Diameter class 9 uPVC exceeding 1m and not exceeding 2m deep	m	3
3	75mm Diameter class 9 uPVC exceeding 2m and not exceeding 3m deep	m	3
Carried to Collection			R
Section 5 Bill No. 2 Water Reticulation (Provisional) Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

Provisional Bills of Quantities

[illegible]

Section 5

Bill No. 2

Water Reticulation (Provisional)

COLLECTION

Total Brought Forward from Page No.

**Page
No**

214

215

Amount**Carried Forward to Summary of Section No. 5**

R

Section 5

Bill No. 2

Water Reticulation (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 3</u>			
	<u>EXTERNAL WORKS: SEWERAGE NETWORK (PROVISIONAL)</u>			
	Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 146 for CPAP formula purposes.			
	Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
	Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Preambles, supplementary preambles and items in previous bills are equally applicable to the bill following and tenderers are referred to such previous bills for full descriptions which are equally applicable to work in the bill following, unless otherwise described			

	<u>SOIL DRAINAGE</u>			
	<u>uPVC class 34 socketed pipework including short lengths and couplings (no excavating)</u>			
1	110mm Diameter pipe vertically or ramped in ground	m	24	
2	160mm Diameter pipe vertically or ramped in ground	m	24	
	<u>uPVC class 34 socketed pipework including short lengths and couplings laid in ground including excavating, bedding, back-filling and compaction, and disposal of surplus material</u>			
3	110mm Diameter pipe not exceeding 1m deep	m	4	
	Carried to Collection		R	
	Section 5			
	Bill No. 3			
	Sewer Reticulation (Provisional)			
	Completion of Ethandakukhanya Community Health Centre			
	Mpumalanga Province			

Provisional Bills of Quantities

4	110mm Diameter pipe exceeding 1m and not exceeding 2m deep	m	4	
5	160mm Diameter pipe not exceeding 1m deep	m	4	
6	160mm Diameter pipe exceeding 1m and not exceeding 2m deep	m	4	
7	160mm Diameter pipe exceeding 2m and not exceeding 3m deep	m		
8	160mm Diameter pipe exceeding 3m and not exceeding 4m deep	m		
9	160mm Diameter pipe exceeding 4m and not exceeding 5m deep	m		
	<u>Extra over class 34 pipework for the following class 34 uPVC fittings</u>			
10	110mm Bend	No	2	
11	110mm Junction	No	2	
12	160mm Bend	No	2	
13	160mm Reducing junction with inspection eye	No	2	
14	160mm Junction	No	2	
15	160 x 110mm Reducer	No	2	
	<u>Sundries</u>			
16	Cast 160mm diameter horizontal uPVC pipe in mass concrete 20Mpa/19mm stone, size 325 x 325mm extreme	m	1	
17	Cast 160mm diameter vertical uPVC pipe in mass concrete 25Mpa/19mm, size 325 x 325mm extreme	m	1	
18	Cast 160mm diameter uPVC fitting in mass concrete 25Mpa/19mm	No	1	
Carried to Collection				
Section 5 Bill No. 3 Sewer Reticulation (Provisional) Completion of Ethandakukhanya Community Health Centre Mpumalanga Province				

19	Precast concrete 25Mpa12mm block, 300 x 300 x 50mm thick, finished on exposed faces with 1:3 cement mortar, with external angles rounded and the letters "IE" formed therein and setting in position flush with ground	No	1		
20	Cast iron cleaning eye with letter "C.E." cast therein, jointed to 110mm diameter uPVC pipe and embedded in mass concrete 25Mpa19mm, carried up and above ground to form a kerb and finished smooth on top with 1:3 cement mortar with all external angles rounded and fitted with 300 x 300mm cast iron cover and frame, including formwork, etc.	No	1		
21	110mm Diameter uPVC gulley trap assembly, not exceeding 1m deep to invert, built up of a universal trap with outlet jointed to 110mm diameter uPVC pipe as necessary and gulley head fitted with a 150mm diameter cast iron grating and frame, with and including concrete sealed top and sides	No	1		
22	Excavate for, cut into existing manhole and make connection for 160mm diameter uPVC pipe	No	2		
23	Extra over excavating for pipe trenches in earth for excavating in soft rock	m3	1		
24	Extra over excavating for pipe trenches in earth for excavating in hard rock	m3	1		
	<u>Sumps, catchpits, inspection chambers, etc. (gratings and covers elsewhere)</u> <u>(refer to drawing BCE/MCHC/18/C/19)</u>				
25	1 000mm Diameter precast concrete inspection chamber not exceeding 1 000mm deep internally	No	1		
26	1 000mm Diameter precast concrete inspection chamber exceeding 1 000mm and not exceeding 2 000mm deep internally	No	1		
27	1 250mm Diameter precast concrete inspection chamber exceeding 2 000mm and not exceeding 3 000mm deep complete with 750mm diameter precast concrete access shaft section 1 000mm deep	No	1		
Carried to Collection				R	
Section 5 Bill No. 3 Sewer Reticulation (Provisional) Completion of Ethandakukhanya Community Health Centre Mpumalanga Province					

28	1 250mm Diameter precast concrete inspection chamber exceeding 3 000mm and not exceeding 4 000mm deep complete with 750mm diameter precast concrete access shaft section 1 000mm deep	No	1		
	<u>Cast iron gratings, covers, etc.</u>				
29	550mm Diameter x 190kg Type 2A manhole cover and frame	No	1		
30	Lifting key for manhole cover	No	1		
	<u>Testing</u>				
31	Allow for testing the whole of the soil drainage system and for re-testing after removing and replacing all defective work to the entire satisfaction of the principal agent. The contractor has to provide all testing apparatus and labour and has to follow the principal agent's instructions implicitly		Item		
	<u>Pressure Testing</u>				
32	Allow for pressure testing the whole of the sewer system and for re-testing after removing and replacing all defective work to the entire satisfaction of the principal agent. The contractor has to provide all testing apparatus and labour and has to follow the principal agent's instructions implicitly		Item		
	<u>SLEEVES</u>				
	<u>uPVC class 4 pipe pipework including short lengths and couplings laid in ground including excavating, bedding, back-filling and compaction, and disposal of surplus material</u>				
33	50mm Diameter pipe not exceeding 1m deep	m	12		
34	110mm Diameter pipe not exceeding 1m deep	m	6		
	<u>Extra over uPVC class 4 pipework for</u>				
35	50mm Slow bend	No	2		
36	110mm Slow bend	No	2		
Carried to Collection				R	
Section 5 Bill No. 3 Sewer Reticulation (Provisional) Completion of Ethandakukhanya Community Health Centre Mpumalanga Province					

Section 5

Bill No. 3

Sewer Reticulation (Provisional)

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

217

218

219

220

Carried Forward to Summary of Section No. 5

R

Section 5

Bill No. 3

Sewer Reticulation (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 4</u>			
	<u>EXTERNAL WORKS: ROADWORKS</u> <u>(PROVISIONAL)</u>			
	Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
	Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Precast concrete block road surfacing</u>			
	Paving shall be laid in accordance with SANS 1200 MJ, SANS 1058 and the Concrete Masonry Association's specifications			
	Paving shall be laid on 25mm thick (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere)			
	Clean sand shall be swept into joints between road stones at completion			

	<u>ROADS AND PARKING: TO PARKING AREA</u>			
	<u>EARTHWORKS</u>			
	<u>(CPAP formula work group no. 104)</u>			
	<u>Excavations</u>			
1	Pick up carefully and set aside existing grass blocks to a designated area to be identified by the Principal Agent to an area within the boundaries of the property. Safely stack for reuse later. (reuse elsewhere measured)	m2	345	
	Carried to Collection		R	
	Section 5 Bill No. 4 Roadworks (Provisional) Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

2	Excavate in compacted material to create a reduced level not exceeding 2m deep and stockpile excavated material	m3	207		
3	Extra over all excavations for carting away surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	27		
4	Risk of collapse of vertical sides of trench, base, etc. excavations not exceeding 1.5m deep	m2	50		
	<u>Compaction of surfaces</u>				
5	Compaction of ground surfaces under pavings etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	345		
	<u>Earth filling of G5 material supplied by the Contractor</u>				
6	Base course under parking areas etc and compacted to 93% Mod AASHTO density	m3	44		
	<u>Earth filling of G5 material supplied by the Contractor</u>				
7	Base course under parking areas etc stabilised with 4% portland cement and compacted to 93% Mod AASHTO density	m3	32		
	<u>Weedkillers, insecticides, etc</u>				
8	Weedkiller and soil insecticide mixed in the proportion in strict accordance with the manufacturers instructions applied to earth surfaces under paving	m2	350		
	<u>Keeping excavations free of water</u>				
9	Keeping excavations free of all water other than subterranean water		Item		
	<u>Prescribed density tests on filling</u>				
10	"Modified AASHTO Density" test	No	8		
Carried to Collection				R	
Section 5 Bill No. 4 Roadworks (Provisional) Completion of Ethandakukhanya Community Health Centre Mpumalanga Province					

CONCRETE, ETC(CPAP formula work group no. 110)Concrete

11	25Mpa/19mm reinforced concrete in ground beam	m3	2
----	---	----	---

12	Woodfloat top surfaces of concrete to falls	m2	20
----	---	----	----

(CPAP formula work group no. 111)Formwork

13	Rough formwork to edges and risers not exceeding 300mm high	m	10
----	---	---	----

REINFORCEMENT(CPAP formula work group no. 114)Mild steel reinforcing rods for concrete

14	8mm Diameter	kg	1
----	--------------	----	---

High tensile steel reinforcing rods for concrete

15	12mm Diameter	kg	1
----	---------------	----	---

PRECAST CONCRETE(CPAP formula work group no. 116)Precast concrete roadstone paving to SABS 1200MJ specifications laid on concrete surfaces

16	Supply and lay "Type S-A Class 35" 60mm thick concrete paving blocks placed in herringbone pattern on 20mm sand bedding layer	m2	20
----	---	----	----

17	Extra on 60mm paving for circular cutting and waste	m	12
----	---	---	----

18	Supply and lay "Type S-A Class 35" 80mm thick concrete paving blocks placed in herringbone pattern on 20mm sand bedding layer	m2	10
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Carried to Collection**R**

Section 5

Bill No. 4

Roadworks (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

19	Collect and reinstall existing Grass Blocks set aside and lay blocks, to be placed in herringbone pattern on 20mm sand bedding layer	m2	345		
20	Extra on 80mm paving for circular cutting and waste	m	2		
	<u>Precast concrete kerbing laid on earth surfaces</u>				
21	Kerb (SABS 927 fig 7) 180 x 280mm high with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	84		
22	Kerb (SABS 927 fig 7) 180 x 280mm high with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint circular on plan not exceeding 4m radius formed with short lengths of straight kerb including excavation, backfilling, etc	m	6		
23	Figure 8c with 225 x 150 x 225mm mass concrete haunching at back of each joint including bedding, jointing, and pointing, and inclusive of excavations, back filling, etc	m	5		
24	Figure 8c with 225 x 150 x 225mm mass concrete haunching at back of each joint including bedding, jointing, and pointing, and inclusive of excavations, back filling, etc, circular on plan to radius not exceeding 4m	m	5		
25	Figure 8c with 225 x 150 x 225mm mass concrete haunching at back of each joint including bedding, jointing, and pointing, and inclusive of excavations, back filling, etc , circular on plan to radius exceeding 4m	m	5		
	<u>Prepare and apply one coat white reflective road marking paint on bituminous road surfacing, precast concrete paving blocks, etc</u>				
	<u>(CPAP formula work group no. 152)</u>				
	<u>White paint</u>				
26	100mm Wide broken line	m	50		
27	100mm Wide solid line	m	75		
28	300mm Wide solid line	m	1		
Carried to Collection				R	
Section 5					
Bill No. 4					
Roadworks (Provisional)					
Completion of Ethandakukhanya Community Health Centre					
Mpumalanga Province					

29	Single arrow 2500mm long	No	2	
30	Double arrow 2500mm long	No	1	
31	STOP sign set 2500mm long	Sets	1	
32	Sign for the disability 1200mm	No	1	
<u>TRAFFIC SIGNAGE</u>				
33	Standard "STOP" sign with 50mm diameter galvanised mild steel post bedded in and including unreinforced concrete base, including any necessary excavation, paint finish, etc	No	1	
34	Standard "NO ENTRY" sign with 50mm diameter galvanised mild steel post bedded in and including unreinforced concrete base, including any necessary excavation, paint finish, etc	No	2	
Carried to Collection				
Section 5 Bill No. 4 Roadworks (Provisional) Completion of Ethandakukhanya Community Health Centre Mpumalanga Province				R

Section 5

Bill No. 4

Roadworks (Provisional)

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

222

223

224

225

226

Carried Forward to Summary of Section No. 5

R

Section 5

Bill No. 4

Roadworks (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 5</u>			
<u>BILL NO. 5</u>			
<u>EXTERNAL WORKS: EARTH RETAINING STRUCTURES (PROVISIONAL)</u>			
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<u>PREAMBLES</u>			
Preambles, supplementary preambles and items in previous bills are equally applicable to the bill following and tenderers are referred to such previous bills for full descriptions which are equally applicable to work in the bill following, unless otherwise described			

<u>THE FOLLOWING IN EARTH RETAINING STRUCTURES</u>			
<u>EARTHWORKS</u>			
<u>(CPAP formula work group no. 104)</u>			
<u>Excavations</u>			
1	Excavate in earth not exceeding 2m deep for footings to walls and keep excavated material on site or stockpile for future back filling	m3	1
2	Risk of collapse of vertical sides of trench, base, etc. excavations not exceeding 1.5m deep	m2	10
3	Risk of collapse of vertical sides of sloping excavations exceeding 1.5m deep	m2	5
Carried to Collection			R
Section 5 Bill No. 5 Retaining Structures (Provisional) Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

4	Allow for bailing and pumping for keeping all excavations entirely free from water and mud		Item		
	<u>Clean, hard, dry, cohesionless earth filling</u>				
5	Obtained from the excavations or stockpiles, spread, well watered, levelled and compacted in layers not exceeding 150mm thick in of trench excavations to 95% Modified AASHTO density at optimum moisture content	m3	1		
6	Obtained from the excavations or stockpiles, spread, well watered, levelled and compacted in layers not exceeding 150mm thick in filling behind earth retaining structures to 95% Modified AASHTO density at optimum moisture content	m3	1		
	<u>Earth reinforcement</u>				
7	"Polymeric Geogrid" sheeting placed horizontally in filling	m2	10		
	<u>CONCRETE, ETC</u>				
	<u>(CPAP formula work group no. 110)</u>				
	<u>25Mpa/19mm Reinforced concrete in</u>				
8	V-shaped open channel drain	m3	10		
9	Strip footings to walls cast against excavated surfaces, stepped and levelled	m3	2		
	<u>30Mpa/19mm Reinforced concrete in</u>				
10	Retaining walls	m3	2		
	<u>Sundries</u>				
11	Shape and wood float finish to concrete V-shaped open channel drain	m2	10		
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
12	Tops of beams, walls, etc	m2	10		
Carried to Collection				R	
Section 5					
Bill No. 5					
Retaining Structures (Provisional)					
Completion of Ethandakukhanya Community Health Centre					
Mpumalanga Province					

	<u>Rough formwork to sides</u>				
	<u>(CPAP formula work group no. 111)</u>				
13	Foundation beams	m2	10		
	<u>Smooth formwork to sides</u>				
14	Retaining walls with total height exceeding 1,5m and not exceeding 3,5m above bearing level	m2	1		
15	Retaining walls with total height exceeding 3,5m and not exceeding 5m above bearing level	m2	1		
16	Retaining walls with total height exceeding 5m and not exceeding 6,5m above bearing level	m2	1		
	<u>REINFORCEMENT</u>				
	<u>(CPAP formula work group no. 114)</u>				
	<u>Mild steel reinforcement to structural concrete work</u>				
17	10mm Diameter bars	t	0.20		
	<u>PRECAST CONCRETE</u>				
	<u>(CPAP formula work group no. 112)</u>				
	<u>"Technicrete Enviro-Wall" natural precast concrete interlocking retaining wall with blocks finished smooth on all exposed surfaces and with inclined face and curves as required to suit slopes, with horizontal bed joints with and including geofabric reinforcing, including filling units with garden soil lightly tamped as work proceeds (foundations and back filling of earth behind wall elsewhere)</u>				
18	Retaining structure not exceeding 1 500mm high	m2	2		
19	Retaining structure not exceeding 2 000mm high	m2	2		
20	Retaining structure not exceeding 2 500mm high	m2	1		
	<u>WATERPROOFING</u>				
	<u>(CPAP formula work group no. 120)</u>				
Carried to Collection				R	
Section 5 Bill No. 5 Retaining Structures (Provisional) Completion of Ethandakukhanya Community Health Centre Mpumalanga Province					

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Section 5

Bill No. 5

Retaining Structures (Provisional)

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

228

229

230

231

Carried Forward to Summary of Section No. 5

R

Section 5

Bill No. 5

Retaining Structures (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No	Quantity	Rate	Amount
<u>SECTION NO. 5</u>			
<u>BILL NO. 6</u>			
<u>EXTERNAL WORKS: CARPORTS</u>			
<u>(PROVISIONAL)</u>			
Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
<u>SUPPLEMENTARY PREAMBLES</u>			
Preambles, supplementary preambles and items in previous bills are equally applicable to the bill following and tenderers are referred to such previous bills for full descriptions which are equally applicable to work in the bill following, unless otherwise described			

<u>EXCAVATION, FILLING, ETC</u>			
<u>(CPAP formula work group no. 104)</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
1	Holes	m3	3
<u>Extra over trench and hole excavations in earth for excavation in</u>			
2	Soft rock	m3	1
3	Hard rock	m3	1
<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	6
Carried to Collection			R
Section 5 Bill No. 6 Carports (Provisional) Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

	<u>Risk of collapse of excavations</u>				
5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	10		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>				
6	Backfilling to trenches, holes, etc	m3	6		
	<u>Soil insecticide</u>				
7	To bottoms of trenches	m2	15		
	<u>CONCRETE</u>				
	<u>(CPAP formula work group no. 110)</u>				
	<u>25MPa/19mm concrete</u>				
8	Bases	m3	2		
	<u>REINFORCEMENT</u>				
	<u>(CPAP formula work group no. 114)</u>				
	<u>High tensile steel reinforcement to structural concrete work</u>				
9	12mm Diameter bars	t	0.30		
	<u>STEEL COLUMNS AND BEAMS</u>				
	<u>(CPAP formula work group no. 136)</u>				
	<u>Welded columns in single lengths with flat section base, top, bearer and connection plates bolted to steel or concrete</u>				
10	100 x 100 x 6mm Rectangular hollow section columns	t	0.50		
	<u>Welded beams in single lengths with flat section bearer and connection plates bolted to steel columns</u>				
11	200 IPE-section beams	t	0.10		
Carried to Collection				R	
Section 5 Bill No. 6 Carports (Provisional) Completion of Ethandakukhanya Community Health Centre Mpumalanga Province					

Section 5
Bill No. 6
Carports (Provisional)
**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3 of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat Metal Primer (UC 501) with an overcoating time of 16 hours, one tinted undercoat (UC1) and finish with two coats "Dulux" enamel paint with 16 hours drying time between coats to achieve complete obliteration

18 On columns and beams t 2.00

19 On roof trusses members t 2.00

TAKING DOWN AND REMOVAL FROM SITE

Existing steel carport (rusted at lower entrance gate)

BUDGETARY ALLOWANCES

20 Provide the sum of R 10, 000.00 (Ten Thousand Rand) for removal of the existing damaged carport at the lower entrance gate along side the existing grass paving blocks, and make good the existing area to the satisfaction of the Principal Agent

Item

10,000.00

Carried to Collection

R

Section 5

Bill No. 6

Carports (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Section 5

Bill No. 6

Carports (Provisional)

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

233

234

235

236

Carried Forward to Summary of Section No. 5

R

Section 5

Bill No. 6

Carports (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 7</u>			
	<u>EXTERNAL WORKS: FENCING (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
	Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Preambles, supplementary preambles and items in previous bills are equally applicable to the bill following and tenderers are referred to such previous bills for full descriptions which are equally applicable to work in the bill following, unless otherwise described			

	<u>SITE CLEARANCE ETC</u>			
	<u>(CPAP formula work group no. 104)</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	20	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
2	Holes	m3	1	
	Carried to Collection		R	
	Section 5			
	Bill No. 7			
	Fencing (Provisional)			
	Completion of Ethandakukhanya Community Health Centre			
	Mpumalanga Province			

	<u>Extra over all excavations for carting away</u>				
3	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	1		
	<u>Risk of collapse of excavations</u>				
4	Sides of trench and hole excavations not exceeding 1,5m deep	m2	3		
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>(CPAP formula work group no. 110)</u>				
	<u>25MPa/19mm concrete</u>				
5	Bases	m3	0.3		
	<u>Sundries</u>				
6	Cast metal gate sliding rails into top of concrete ground beams	m	3		
	<u>PRECAST CONCRETE FENCING</u>				
	<u>(CPAP formula work group no. 112)</u>				
	<u>"Technicrete" or equally approved by the Principal Agent, reinforced precast concrete palisade fence finished smooth on exposed surfaces, including preparation of ground</u>				
7	Palisade fence 2,4m high above ground level over flat or sloping terrain with 140mm x 3 000mm long intermediate and end posts at 2m intervals founded in concrete bases, with 150 x 1 940mm long top and bottom horizontal beams with 95 x 2 370mm palings (eight pales per panel) bolted to rails at intersections, including stopping off bolt holes with cement mortar complete as per attached details (foundations elsewhere measured)	m	20		
	<u>METAL FENCING</u>				
	<u>(CPAP formula work group no. 136)</u>				
Carried to Collection				R	
Section 5 Bill No. 7 Fencing (Provisional) Completion of Ethandakukhanya Community Health Centre Mpumalanga Province					

	<u>"Cochrane ClearVu" or equally approved by the Principal Agent galvanised metal fencing over flat or sloping terrain consisting of 85mm tapering to 45mm x 85mm deep posts at maximum 3 382mm centres cast into and including 15Mpa mass concrete bases each size 400 x 400 x 600mm deep inclusive of earthworks, each post complete with a UV stabilised polymer cap and a 12mm base pin, with pressed high density 3 297mm wide 4/3 wire mesh panels each with 76.2 x 12.7mm apertures, two 70 degree flanged along sides and two 30 degree flanges along top and toe, each panel secured with clamping plates and tamper proof tech bolts between posts on internal side of fencing</u>				
8	Continuous fencing 1 100mm high including route changes fixed to top of brickwork	m	10		
9	Continuous fencing 1 8000mm high with and including spikes including route changes	m	10		
	<u>Welded steel palisade security fencing with posts encased in concrete footings</u>				
10	Palisade security fencing in 1,6 x 3m panels made of 60 x 60 x 5mm slotted channels top and bottom rails , filled in vertically with 30 x 30 x 3mm hot rolled angle palisades 1 600mm long at 150mm centres, panels fixed to 76 x 76 x 3mm posts with devils fork end at the top and bottom fixed to brickwork	m	5		
11	Palisade security fencing in 2,1 x 3m panels made of 60 x 60 x 5mm slotted channels top and bottom rails , filled in vertically with 30 x 30 x 3mm hot rolled angle palisades 2 100mm long at 150mm centres, panels fixed to 76 x 76 x 3mm posts with devils fork end at the top and bottom cast into and including 15Mpa mass concrete bases each size 400 x 400 x 600mm deep inclusive of earthworks	m	5		
	<u>Plascon zinc phosphate primer undercoat and plascon super universal enamel top coat</u>				
	<u>(CPAP formula work group no. 152)</u>				
12	On gates, grilles, palisade fencing, etc.(both sides measured over the full flat area)	m2	50		
Carried to Collection					R
Section 5 Bill No. 7 Fencing (Provisional) Completion of Ethandakukhanya Community Health Centre Mpumalanga Province					

Section 5

Bill No. 7

Fencing (Provisional)

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

238

239

240

Carried Forward to Summary of Section No. 5

R

Section 5

Bill No. 7

Fencing (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 8</u>			
	<u>EXTERNAL WORKS: LANDSCAPING (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	Preambles, supplementary preambles and items in previous bills are equally applicable to the bill following and tenderers are referred to such previous bills for full descriptions which are equally applicable to work in the bill following, unless otherwise described			
	Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."			

	<u>LANDSCAPING</u>			
	<u>Maintenance period</u>			
	Attention is drawn to the maintenance period prescribed in the specification			
	<u>Ground preparation</u>			
1	Cultivation and preparation of areas to be planted	m2	500	
	<u>Topsoil supplied by the contractor, including spreading and levelling</u>			
2	In plant beds, grassed areas and holes for trees, shrubs, etc.	m3	36	
	<u>Compost, lime and fertilizer</u>			
3	Compost in plant beds, holes for trees, shrubs, etc.	m3	36	
4	Agricultural lime for trees, shrubs, ground covers, etc.	kg	150	
	Carried to Collection			
	Section 5			
	Bill No. 8			
	Landscaping (Provisional)			
	Completion of Ethandakukhanya Community Health Centre			
	Mpumalanga Province			

Provisional Bills of Quantities

	<u>Mulch</u>				
5	25mm Thick mulch layer in plant beds between plants	m2	50		
	<u>Grassing, ground covers, etc.</u>				
6	"Kikuyu" roots in rows at 250mm centres	m2	600		
Carried to Collection					R
Section 5					
Bill No. 8					
Landscaping (Provisional)					
Completion of Ethandakukhanya Community Health Centre					
Mpumalanga Province					

Section 5

Bill No. 8

Landscaping (Provisional)

COLLECTION

Total Brought Forward from Page No.

**Page
No**

242

243

Amount**Carried Forward to Summary of Section No. 5**

R

Section 5

Bill No. 8

Landscaping (Provisional)

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Bill No	SECTION SUMMARY - External Works	Page No	Amount
1	Stormwater (Provisional)	213	
2	Water Reticulation (Provisional)	216	
3	Sewer Reticulation (Provisional)	221	
4	Roadworks (Provisional)	227	
5	Retaining Structures (Provisional)	232	
6	Carports (Provisional)	237	
7	Fencing (Provisional)	241	
8	Landscaping (Provisional)	244	
			R
Section 5 Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

Carried to Final Summary

R

Item No	Quantity	Rate	Amount
<u>SECTION NO. 6</u>			
<u>BILL NO. 1</u>			
<u>PROVISIONAL SUMS</u>			
<u>NOTES:</u>			
1. The Contractor's attention is drawn specifically to the Principal Building Agreement Clause 20.0 (Nominated Sub-Contractors), Clause 21.0 (Selected Sub-Contractors) and Clause 22 (Work by Others) and to the related Clauses in Section 1, Bill No. 1 - Preliminaries 2. The Contractor's attention is drawn also to the definition of attendance on Nominated or Selected Sub-Contractors and of fuel, power and water for commissioning of mechanical and other specialised installations given in the JBCC Preliminaries 3. Where special attendance includes the provision of hoisting facilities for a Sub-Contractor then the Contractor shall:- * Ensure that the capacities of his hoisting equipment are sufficient to deal with the masses and the quantities of the items to be hoisted, * Schedule the times of availability of the hoisting equipment for each Sub-Contractor, * Provide all necessary personnel to operate the hoisting equipment, all to enable the Sub-Contractor to execute the hoisting or lowering of his material, etc. using the facilities provided by the Contractor 4. Under no circumstances may any Provisional Amount, etc. be extended at an amount lower than the amount given in this Bill			
Carried to Collection			R
Section 6 Bill No. 1 Provisional Sums Completion of Ethandakukhanya Community Health Centre Mpumalanga Province			

**PROVISIONAL SUMS FOR NOMINATED / SELECTED
SUB-CONTRACTS**Electrical Installation

1	Provide the amount of R 4,224,521.12 for Electrical Installation supplied and installed complete	Item		4,224,521.12
2	Profit		%	
3	Allow for general attendance		%	

Smoke detection

4	Provide the amount of R 916,870.94 for Smoke detection Installation supplied and installed complete	Item		916,870.94
5	Profit		%	
6	Allow for general attendance		%	

CCTV Installation complete

7	Provide the amount of R 2,528,834.86 for the supply installation and commissioning of the CCTV installation	Item		2,528,834.86
8	Profit		%	
9	Allow for general attendance		%	

Dental equipment completion

10	Provide the amount of R 572,453.34 (five hundred and seventy two thousand four hundred and fifty three rand and 34/100)	Item		572,453.34
11	Profit		%	
12	Allow for general attendance		%	

Fire Protection installation

13	Provide the amount of R 1 411 200.00 for fire protection completion, supplied and installed complete	Item		1,441,200.00
14	Profit		%	

Carried to Collection

R

Section 6
 Bill No. 1
 Provisional Sums
**Completion of Ethandakukhanya Community Health Centre
 Mpumalanga Province**

Provisional Bills of Quantities

15	Allow for general attendance		%	
	<u>Hot and cold water services installtion</u>			
16	Provide the amount of R 1 256 200.00 for Hot and Cold water services, supplied and installed complete	Item		1,256,200.00
17	Profit		%	
18	Allow for general attendance		%	
	<u>Medical gas installtion</u>			
19	Provide the sum of R 1 272 125.00 for Medical Gas System installation, supplied and installed complete	Item		1,272,125.00
20	Profit		%	
21	Allow for general attendance		%	
	<u>Refrigeration - cold room installation</u>			
22	Provide the sum of R 688 345.18 for refridgeration installation, supplied and installed complete	Item		688,345.18
23	Profit		%	
24	Allow for general attendance		%	
	<u>HVAC - airconditioning Installation</u>			
25	Provide the sum of R 3 598 425.74 for Mechanical installation, supplied and installed complete	Item		3,598,425.74
26	Profit		%	
27	Allow for general attendance		%	
	<u>Kitchen equipment</u>			
28	Provide the sum of R 860,000.00 for kitchen equipment installation, supplied and installed complete	Item		860,000.00
29	Profit		%	
30	Allow for general attendance		%	
Carried to Collection				R
Section 6				
Bill No. 1				
Provisional Sums				
Completion of Ethandakukhanya Community Health Centre				
Mpumalanga Province				

Provisional Bills of Quantities

Branding Installation

31 Provide the sum of R 650 000.00 (Six hundred and fifty Thousand Rand) for Branding installation, supplied and installed complete

Item

650,000.00

32 Profit

%

33 Allow for general attendance

%

HCT Installation

34 Provide the sum of R 13 200 000.00 for HCT installation, supplied and installed complete

Item

13,200,000.00

35 Profit

%

36 Allow for general attendance

%

SEWER CCTV ASSESSMENT

37 Provide the amount of R 300 000.00 for CCTV assessment of water, sewer and storm water

Item

300,000.00

38 Profit

%

39 Allow for general attendance

%

Carried to Collection

R

Section 6

Bill No. 1

Provisional Sums

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

Section 6

Bill No. 1

Provisional Sums

COLLECTION

Total Brought Forward from Page No.

**Page
No****Amount**

246

247

248

249

Carried to Final Summary

R

Section 6

Bill No. 1

Provisional Sums

**Completion of Ethandakukhanya Community Health Centre
Mpumalanga Province**

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