

Item No	Quantity	Rate	Amount
<u>BILL NO. 1</u>			
<u>PRELIMINARIES</u>			
<u>BUILDING AGREEMENT AND PRELIMINARIES</u>			
<p>The JBCC Series 2000 Principal Building Agreement (March 2005 edition 4.1) prepared by the Joint Building Contracts Committee, shall be the agreement, amended as hereinafter described</p> <p>The Preliminaries for use with the JBCC Series 2000 Principal Building Agreement (March 2005 edition) prepared by the Joint Building Contracts Committee, shall be deemed to be incorporated in these bills of quantities</p> <p>Contractors are referred to the above-mentioned documents for the full intent and meaning of each clause thereof</p> <p>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</p> <p>Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"</p> <p>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</p>			
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PREAMBLES FOR TRADES

The Model Preambles for Trades (1999 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)

- 1 Definitions and interpretation (clause
1)F:..... V:.....
T:.....

Item

Objective and Preparation (A2 to A14)

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

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3	Documents (clause 3)F:..... V:..... T:.....	Item		
4	Design responsibility (clause 4)F:..... V:..... T:.....	Item		
5	Employer's agents (clause 5)F:..... V:..... T:.....	Item		
<p>The principal agent shall:</p> <ul style="list-style-type: none"> - monitor and control progress and scheduling - monitor all contract conditions, and - coordinate the efforts of the employer's agents, the contractor and subcontractors <p>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</p> <p>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</p>				
6	Site representative (clause 6)F:..... V:..... T:.....	Item		
7	Compliance with regulations (clause 7)F:..... V:..... T:.....	Item		
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8	Works risk (clause 8) F:..... V:..... T:.....	Item		
9	Indemnities (clause 9)F:..... V:..... T:.....	Item		
10	Works insurances (clause 10) F:..... V:..... T:.....	Item		
11	Liability insurances (clause 11)F:..... V:..... T:.....	Item		
12	Effecting insurance (clause 12)F:..... V:..... T:.....	Item		
13	NO CLAUSE	N/A		
14	Security (clause 14)F:..... V:..... T:.....	Item		
<u>Execution (A15-A23)</u>				
15	Preparation for and execution of the works (clause 15) F:..... V:..... T:.....	Item		
16	Access to the works (clause 16)F:..... V:..... T:.....	Item		
17	Contract instructions (clause 17)F:..... V:..... T:.....	Item		
18	Setting out of the works (clause 18)F:..... V:..... T:..... 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		
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19	Assignment (clause 19)F:..... V:..... T:..... The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer	Item		
20	Nominated subcontractors (clause 20)F:..... V:..... T:.....	Item		
21	Selected subcontractors (clause 21)F:..... V:..... T:..... Written proof is required from subcontract tenderers at tendering that they can meet the JBCC Selected 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 Selected Subcontractors	Item		
22	Employer's Direct Contractors (clause 22) F:..... V:..... T:.....	Item		
23	Contractor's Domestic Sub-Contractors (Clause 23) F:..... V:..... T:.....	Item		
<u>Completion (A24-A30)</u>				
24	Practical completion (clause 24)F:..... V:..... T:.....	Item		
25	Works completion (clause 25)F:..... V:..... T:.....	Item		
26	Final completion (clause 26)F:..... V:..... T:.....	Item		
27	Latent defects liability period (clause 27)F:..... V:..... T:.....	Item		
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28	Sectional completion (clause 28)F:..... V:..... T:.....	Item		
29	Revision of date of practical completion (clause 29)F:..... V:..... T:..... 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)	Item		
30	Penalty for non-completion (clause 30)F:..... V:..... T:.....	Item		
<u>Payment (A31 - A35)</u>				
31	Interim payment to the contractor (clause 31)F:..... V:..... T:.....	Item		
32	Adjustment to the contract value (clause 32)F:..... V:..... T:..... 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	Item		
33	Recovery of expense and loss (clause 33)F:..... V:..... T:.....	Item		
34	Final account and final payment (clause 34)F:..... V:..... T:.....	Item		
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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

35 Payment to other parties (clause 35)

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

Item

Cancellation (A36-A39)

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

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

Item

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

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

Item

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

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

Item

39 Cancellation - cessation of the works (clause 39)

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

Item

Dispute (A40)

40 Dispute Settlement (clause 40)

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

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Substitute Provisions (A41)

41 State clauses (Clause 41)

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

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

THE SCHEDULE

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

42 Pre-tender information (clause 42)

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

42.1 CONTRACTING AND OTHER PARTIES

42.1.1

Employer:

DEVELOPMENT BANK OF SOUTHERN AFRICA

Postal Address:

P O Box 1234

HALFWAY HOUSE, 1685

Physical Address:

Headway Hill, 1258 Lever Road

MIDRAND, 1685

Tel : 011 313 5000/3911/3297

Fax :

Email : webmaster@debsa.org

42.2 CONTRACT DETAILS

42.2.1 Works Description:

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<p>42.2.2 Site Description:</p> <p>42.2.3 Work or installations by direct contractors:</p> <p style="padding-left: 40px;">N/A</p> <p>42.2.4 This agreement is for a government contract where there are specific options that are applicable to a State organ only</p> <p style="text-align: right; padding-right: 40px;">Yes</p> <p>42.2.5 Date on which possession of the site is intended to be given:</p> <p style="text-align: right; padding-right: 40px;">T.B.A</p> <p>42.2.6 Period for the commencement of the works after the contractor takes possession of the site</p> <p style="text-align: right; padding-right: 40px;">5 working days</p> <p>42.2.7 For the works as a whole. Intended date of practical completion and the penalty per calendar day</p> <p style="padding-left: 40px;">12 months after contractual commencement date <i>Date</i></p> <p style="text-align: right; padding-right: 40px;"><i>Penalty Amount</i> <i>is 0,05% of the Contract Amount per calendar day</i></p> <p>42.2.8 For the works in sections: Intended date of practical completion and the penalty per calendar day</p> <p style="text-align: right; padding-right: 40px;">Section 1</p> <p style="padding-left: 40px;">N/A <i>Date</i></p> <p style="padding-left: 40px;">N/A <i>Penalty Amount</i></p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 1 Preliminary and General Bill No. 1 Preliminary and General</p>	<div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> R </div>
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42.2.9 The **law** applicable to this **agreement** shall be that of

South Africa (country)

42.3 INSURANCES

42.3.1 Contract works insurance to be effected by:

Contractor:

For the Sum of R Contract Sum + 10%

With a deductible of - to be determined by the contractor

42.3.2 Supplementary insurance is required

Yes

42.3.3 Public liability insurance to be effected by:

Contractor:

For the Sum of R10,000,000.00

With a deductible of - to be determined by the contractor

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”

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

The priced bills of quantities must be handed in with the tender

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

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

The base month for escalation will be as stated in this document. **N/A**

SECTION B: PRELIMINARIES

Definitions and interpretation (B1)

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

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

T:.....

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Documents (B2)

44 Checking of documents (B2.1)F:.....

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

Item

45 Provisional bills of quantities (B2.2)F:.....

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

N/A

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46	Availability of construction documentation (B2.3) F:..... V:..... T:.....	Item		
47	Interests of agents (B2.4)F:..... V:..... T:.....	Item		
48	Priced documents (B2.5)F:..... V:..... T:.....	Item		
49	Tender submission (B2.6)F:..... V:..... T:.....	Item		
<u>The site (B3)</u>				
50	Defined works area (B3.1)F:..... V:..... T:.....	Item		
51	Geotechnical investigation (B3.2)F:..... V:..... T:.....	Item		
52	Inspection of the site (B3.3)F:..... V:..... T:.....	Item		
	Existing premises occupied (B3.4)F:..... V:..... T:.....			
	Previous work - dimensional accuracy (B3.5)F:..... V:..... T:.....			
	Previous work - defects (B3.6)F:..... V:..... T:.....			
53	Services - known (B3.7)F:..... V:..... T:.....	Item		
54	Services - unknown (B3.8)F:..... V:..... T:.....	Item		
55	Protection of trees etc (B3.9)F:..... V:..... T:.....	Item		
56	Articles of value (B3.10)F:..... V:..... T:.....	Item		
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57	Inspection of adjoining properties etc (B3.11)F:..... V:..... T:.....	Item		
<u>Management of contract (B4)</u>				
58	Management of the works (B4.1) F:..... V:..... T:	Item		
59	Programme for the works (B4.2) F:..... V:..... T:.....	Item		
60	Progress meetings (B4.3)F:..... V:..... T:.....	Item		
61	Technical meetings (B4.4)F:..... V:..... T:.....	Item		
62	Labour and Plant records (B4.5) F:..... V:..... T:.....	Item		
<u>Samples, Shop Drawings and Manufacturer's Instructions (B5)</u>				
63	Samples of materials (B5.1)F:..... V:..... T:.....	Item		
64	Workmanship samples (B5.2)F:..... V:..... T:.....	Item		
65	Shop drawings (B5.3) F:..... V:..... T:.....	Item		
66	Compliance with Manufacturer's Instructions (B5.4) F:..... V:..... T:.....	Item		
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Temporary works and plant (B6)

67 Deposits and fees (B6.1)F:.....
V:..... T:.....

Item

68 Enclosure of the works (B6.2)F:.....
V:..... T:.....

Item

69 Advertising (B6.3)F:.....
V:..... T:.....

Item

70 Plant, equipment, sheds and offices (B6.4)

F: V:..... T:

Item

71 Main notice board (B6.5)F:.....
V:..... T:.....

Item

72 Subcontractors' notice board (B6.6)

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

Item

Temporary services (B7)

73 Location (B7.1)F:..... V:.....
T:.....

Item

74 Water (B7.2)

Option [A] shall apply

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

Item

75 Electricity (B7.3)

Option [A] shall apply

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

Item

76 Telecommunication facilities (B7.4)

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

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77	Ablution facilities (B7.5) <div style="text-align: right;">Option [A] shall apply</div> F:..... V:..... T:.....	Item		
	<u>Prime cost amounts (B8)</u>			
78	Responsibility for prime cost amounts (B8.1)F:..... V:..... T:.....	Item		
	<u>Attendance on N/S Subcontractors (B9)</u>			
79	General attendance (B9.1)F:..... V:..... T:.....	Item		
80	Special attendance (B9.2)F:..... V:..... T:.....	Item		
81	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		
82	Payment of preliminaries (B10.2) <div style="text-align: right;">Option [B] shall apply</div> F:..... V:..... T:.....	Item		
83	Adjustment of preliminaries (B10.3) <div style="text-align: right;">Option [A] shall apply</div> F:..... V:..... T:.....	Item		
84	Payment certificate cash flow (B10.4)F:..... V:..... T:.....	Item		
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	<u>General (B11)</u>			
85	Protection of works (B11.1)F:..... V:..... T:.....	Item		
86	Protection/isolation of existing/sectionally occupied works (B11.2)F:..... V:..... T:.....	N/A		
87	Security of the Works (B11.3) F:..... V:..... T:.....	Item		
88	Notice before covering work (B11.4)F:..... V:..... T:.....	Item		
89	Disturbance (B11.5) F:..... V:..... T:.....	Item		
90	Environmental Disturbance (B11.6) F:..... V:..... T:.....	Item		
91	Works cleaning and clearing (B11.7) F:..... V:..... T:.....	Item		
92	Vermin (B11.8) F:..... V:..... T:.....	Item		
93	Overhand work (B11.9) F:..... V:..... T:.....	Item		
94	Instruction manuals and guarantees (B11.10) F:..... V:..... T:.....	Item		
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95	As built information (B11.11) F:..... V:..... T:.....	Item		
96	Tenant Installations (B11.12) F:..... V:..... T:.....	Item		
<u>Schedule of variables (B12)</u>				
97	Pre-tender information (B12.1)F:..... V:..... T:.....	Item		
	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional:			No
	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete			No
	12.1.3 Interest of agents (B2.4)			
	12.1.4 Defined works area (B3.1)			
	12.1.5 Geotechnical investigation (B3.2) N/A			
	12.1.6 Existing premises occupied (B3.4) Yes			
	12.1.7 Previous work - dimensional accuracy (B3.4)			
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[illegible]

98	Black economic empowerment and training F:..... V:..... T:.....	Item		
99	Proprietary branded products F:..... V:..... T:..... 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	Item		
100	Contract instructions F:..... V:..... T:..... 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	Item		
101	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		
102	Plant record F:..... V:..... T:.....	Item		
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	<p>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</p>			
103	<p>Guarantees</p> <p>F:..... V:..... T:.....</p> <p>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</p>	Item		
104	<p>Overtime</p> <p>F:..... V:..... T:.....</p> <p>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</p>	Item		
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105	<p>Co-operation of contractor for cost management</p> <p>F:..... V:..... T:.....</p> <p>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</p>	Item		
106	<p>Occupational Health and Safety Specification</p> <p>F:..... V:..... T:</p> <p>Any Principal Contractor entering into a contract with The Developer must achieve an acceptable level of Occupational Health and Safety performance. Refer to "Project Specification" and "Safety, Health and Environmental Evaluation Questionnaire" The contractor to comply with all provisions of the above and to be enforced on all selected and or other sub-contractors, as no claim afterwards will be entertained</p>	Item		
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<u>ALTERATIONS (PROVISIONAL)</u>			
<u>PREAMBLES</u>			
The Tenderer is referred to the relevant Clauses in a separate document Model Preambles for Trades (1999 Edition) and to the Supplementary Preambles.			
The Tenderer is further referred to the Guidelines for The Demolishing of Pit Latrines attached herein.			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Short descriptions:</u>			
For the preambles and full descriptions of items not fully described in this Bill, reference must be made to supplementary preambles and descriptions in other Sections. Such supplementary preambles and descriptions shall apply equally to the work in this Bill			
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General:

In taking down and removing existing work the utmost care shall be observed to prevent any structural or other damage to remaining portions of the building and the Contractor shall provide all shoring, needling, strutting, etc. to ensure the stability of all structures during alteration work

Special care shall be exercised during the progress of the work to ensure that any electrical installations, water supply pipes, telephone and other services which may be encountered are not interfered with and notice shall be given to the Representative/Agent if any disconnection or alterations become necessary

Any water supply and other piping that may be encountered and which is found necessary to disconnect, shall after such disconnection or cutting has been authorised by the Representative/Agent, be effectively stopped off and any new connections that may be necessary made with the proper tees, junction pieces, etc. to the satisfaction of the Representative/Agent

The Contractor shall afford every facility to workmen not under his control making disconnections and new connections as required to any services

OLD MATERIALS TO BECOME PROPERTY OF THE CONTRACTOR

Old materials from alterations, except where described as to be "re-used" or "handed over" shall become the property of the Contractor who may allow credit for same where provided for in these Bills of Quantities

OLD MATERIALS TO BE CARTED AWAY

Old materials from the alterations, where described as to be "re-used" as well as all rubbish, etc must be regularly carted from the site and not be allowed to accumulate on or around the site

OLD MATERIALS NOT TO BE RE-USED

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None of the old materials are to be used for new work except where specifically described as being "set aside for re-use"

HANDING OVER OF MATERIALS

Where certain materials or articles from alterations are described as to be "handed over" to the Representative/Agent, such material or articles shall be properly stored by the Contractor, until handing over thereof. The Contractor must obtain an official receipt listing the materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Department for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor.

EXISTING BUILDINGS **(NOT APPLICABLE)**

The existing buildings will be in use and occupied during the progress of the contract and the Contractor will be required to carry out the works in such a manner as will least interfere with the occupants and with the minimum of disturbance

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SIZE PERTAINING TO EXISTING WORK

The Contractor is advised to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the correctness of sizes of all new work

All sizes given in relation to existing work are approximate

MAKING GOOD DAMAGED WORK

The contractor shall make good in all trades to existing work where damaged or disturbed through the alterations with all necessary new materials to match the existing

FORMING NEW OPENINGS OR ALTERING OPENINGS IN EXISTING WALLS

Descriptions of forming new openings or altering openings in existing walls shall be deemed to include breaking out for and forming new brick, in-situ concrete or prestressed concrete lintels, including all reinforcement, formwork, turning pieces, etc., building up jambs or portion of openings as described with brickwork properly toothed and bonded to existing, building cavities of hollow walls solid where necessary and making good finishes all round on both sides and into reveals as described

DEMOLITION OF EXISTING STRUCTURES

Descriptions of demolition of existing structures where given in number shall be deemed to include demolitions, carting away rubble, levelling and compaction of surfaces

BUILDING UP OPENINGS

Descriptions of building up existing openings where given in number shall be deemed to include preparing existing surfaces all around, brickwork properly toothed and bonded to existing, wedging up and making good on both sides as described

PAINTWORK

Carried to Collection

R

Section No. 2
Demolitions
Bill No. 1
Demolitions

Where plasterwork on walls, ceilings, etc. is required to be patched or made good, prices are to include for the appropriate priming coat and one undercoat to receive paint finishing coats which are measured elsewhere

Carried to Collection

Section No. 2
Demolitions
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Demolitions

R

DEMOLITIONS

- | | | | |
|---|--|----|---|
| 1 | Demolish existing staff room block approximately 14m2 comprising concrete strip footing, concrete surface beds, brickwork, timber roof trusses and purlins, steel roof sheeting and carting away rubble to a dumping site to be located by the contractor and filling and levelling with G7 material compacted structure has been demolished | No | 1 |
| 2 | Demolish existing toilet block approximately 28m2 comprising concrete strip footing, concrete surface beds, brickwork, timber roof trusses and purlins, steel roof sheeting and carting away rubble to a dumping site to be located by the contractor and filling and levelling with G7 material compacted structure has been demolished | No | 1 |
| 3 | Demolish existing toilet block approximately 38m2 comprising concrete strip footing, concrete surface beds, brickwork, timber roof trusses and purlins, steel roof sheeting and carting away rubble to a dumping site to be located by the contractor and filling and levelling with G7 material compacted structure has been demolished | No | 1 |

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Section No. 2
Demolitions
Bill No. 1
Demolitions

Section No. 2

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Demolitions

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Section No. 2
Demolitions
Bill No. 1
Demolitions

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General:

In taking down and removing existing work the utmost care shall be observed to prevent any structural or other damage to remaining portions of the building and the Contractor shall provide all shoring, needling, strutting, etc. to ensure the stability of all structures during alteration work

Special care shall be exercised during the progress of the work to ensure that any electrical installations, water supply pipes, telephone and other services which may be encountered are not interfered with and notice shall be given to the Representative/Agent if any disconnection or alterations become necessary

Any water supply and other piping that may be encountered and which is found necessary to disconnect, shall after such disconnection or cutting has been authorised by the Representative/Agent, be effectively stopped off and any new connections that may be necessary made with the proper tees, junction pieces, etc. to the satisfaction of the Representative/Agent

The Contractor shall afford every facility to workmen not under his control making disconnections and new connections as required to any services

OLD MATERIALS TO BECOME PROPERTY OF THE CONTRACTOR

Old materials from alterations, except where described as to be "re-used" or "handed over" shall become the property of the Contractor who may allow credit for same where provided for in these Bills of Quantities

OLD MATERIALS TO BE CARTED AWAY

Old materials from the alterations, where described as to be "re-used" as well as all rubbish, etc must be regularly carted from the site and not be allowed to accumulate on or around the site

OLD MATERIALS NOT TO BE RE-USED

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Section No. 3
Alterations and Refurbishments
Bill No. 1
Alterations & Refurbishments

None of the old materials are to be used for new work except where specifically described as being "set aside for re-use"

HANDING OVER OF MATERIALS

Where certain materials or articles from alterations are described as to be "handed over" to the Representative/Agent, such material or articles shall be properly stored by the Contractor, until handing over thereof. The Contractor must obtain an official receipt listing the materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Department for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor.

EXISTING BUILDINGS **(NOT APPLICABLE)**

The existing buildings will be in use and occupied during the progress of the contract and the Contractor will be required to carry out the works in such a manner as will least interfere with the occupants and with the minimum of disturbance

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Alterations and Refurbishments
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Alterations & Refurbishments

R

SIZE PERTAINING TO EXISTING WORK

The Contractor is advised to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the correctness of sizes of all new work

All sizes given in relation to existing work are approximate

MAKING GOOD DAMAGED WORK

The contractor shall make good in all trades to existing work where damaged or disturbed through the alterations with all necessary new materials to match the existing

FORMING NEW OPENINGS OR ALTERING OPENINGS IN EXISTING WALLS

Descriptions of forming new openings or altering openings in existing walls shall be deemed to include breaking out for and forming new brick, in-situ concrete or prestressed concrete lintels, including all reinforcement, formwork, turning pieces, etc., building up jambs or portion of openings as described with brickwork properly toothed and bonded to existing, building cavities of hollow walls solid where necessary and making good finishes all round on both sides and into reveals as described

DEMOLITION OF EXISTING STRUCTURES

Descriptions of demolition of existing structures where given in number shall be deemed to include demolitions, carting away rubble, levelling and compaction of surfaces

BUILDING UP OPENINGS

Descriptions of building up existing openings where given in number shall be deemed to include preparing existing surfaces all around, brickwork properly toothed and bonded to existing, wedging up and making good on both sides as described

PAINTWORK

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Section No. 3
Alterations and Refurbishments
Bill No. 1
Alterations & Refurbishments

Where plasterwork on walls, ceilings, etc. is required to be patched or made good, prices are to include for the appropriate priming coat and one undercoat to receive paint finishing coats which are measured elsewhere

REMOVAL OF ASBESTOS MATERIAL ON SITE

Removal of asbestos material from existing building is to be done strictly in accordance to the **ASBESTOS ABATEMENT REGULATIONS, 2020** guidelines published under Government Notice R1196 in GG 43893 of 10 November 2020.

The bidder is deemed to have studied the regulation before pricing the works as no claims arising from under pricing will be entertained.

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Section No. 3
Alterations and Refurbishments
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<u>REMOVAL OF EXISTING WORK</u>			
<u>Taking out and removing doors, windows, etc. from frame:</u>			
1	Timber single door not exceeding 2.5m2	No	28
2	Steel door frames size 813 x 2 032mm high	No	28
3	Steel Burglar gate for door size 813 x 2 032mm high	No	28
<u>Taking out/off and removing glass and mirrors</u>			
4	Glass from steel windows, including cleaning out rebates and preparing for new glass	m2	31
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>			
5	Asbestos roof covering, roof trusses, fascia and barge boards, gutters, down pipes, ceilings and cornices etc. approximately 14m2 on plan including carting away to an approved disposal site by an approved registered asbestos contractor	No	1
6	Asbestos roof covering, roof trusses, fascia and barge boards, gutters, down pipes, ceilings and cornices etc. approximately 28m2 on plan including carting away to an approved disposal site by an approved registered asbestos contractor	No	1
7	Asbestos roof covering, roof trusses, fascia and barge boards, gutters, down pipes, ceilings and cornices etc. approximately 38m2 on plan including carting away to an approved disposal site by an approved registered asbestos contractor	No	1
8	Asbestos roof covering, roof trusses, fascia and barge boards, gutters, down pipes, ceilings and cornices etc. approximately 117m2 on plan including carting away to an approved disposal site by an approved registered asbestos contractor	No	1
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9	Asbestos roof covering, roof trusses, fascia and barge boards, gutters, down pipes, ceilings and cornices etc. approximately 413m2 on plan including carting away to an approved disposal site by an approved registered asbestos contractor	No	1		
10	Asbestos roof covering, roof trusses, fascia and barge boards, gutters, down pipes, ceilings and cornices etc. approximately 443m2 on plan including carting away to an approved disposal site by an approved registered asbestos contractor	No	1		
11	Asbestos roof covering, roof trusses, fascia and barge boards, gutters, down pipes, ceilings and cornices etc. approximately 359m2 on plan including carting away to an approved disposal site by an approved registered asbestos contractor	No	2		
<u>Taking out and removing ironmongery</u>					
12	Chalk boards	No	24		
13	Pinning boards	m	24		
<u>Hacking up/off and removing vinyl tiles including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc</u>					
14	Vinyl floor tiles	m2	1,405		
<u>Taking down and removing roofs, gutters, fascia, bargeboard, floors, panelling, ceilings, partitions, etc</u>					
15	Gutters and down pipes	m	350		
<u>BUILDING UP OPENINGS</u>					
<u>Brickwork in NFP bricks in class II mortar in building in door and window frame</u>					
16	813 x 2032mm High steel door frame in one brick wall including making good finishes around frame	No	28		
Carried to Collection				R	
Section No. 3 Alterations and Refurbishments Bill No. 1 Alterations & Refurbishments					

PREPARATORY WORK TO EXISTING SURFACES

17	Deep cleaning to face brick wall with approved chemicals	m2	1,103
18	Deep cleaning to concrete tile roof with approved chemicals	m2	431
19	Making good defects in existing screeded floors	m2	758

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Alterations and Refurbishments
Bill No. 1
Alterations & Refurbishments

Item No		Quantity	Rate	Amount
	<u>BILL NO. 2</u>			
	<u>MASONRY</u>			
	<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>Face bricks</u>			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	<u>Pointing</u>			
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.			
	<u>SUPERSTRUCTURE</u>			
	<u>Brickwork of NFP bricks in class II mortar</u>			
1	Half brick walls in beamfilling	m2	183	
2	One brick walls in gables	m2	40	
	<u>BRICKWORK SUNDRIES</u>			
	<u>Brickwork reinforcement</u>			
3	75mm Wide reinforcement built in horizontally	m	745	
	<u>Galvanised hoop iron cramps, ties, etc</u>			
4	30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end built into brickwork	No	477	
	Carried Forward to Summary of Section No. 3			
	Section No. 3			
	Alterations and Refurbishments			
	Bill No. 2			
	Masonry			

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Item No	Quantity	Rate	Amount
<u>BILL NO. 4</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Particle board:</u>			
Particle board shall comply with the following specifications:			
a) SABS 1300 Particle board: exterior and flooring type			
b) SABS 1301 Particle board: interior type			
<u>Joinery:</u>			
Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc			
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
<u>Decorative laminate finish:</u>			
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish			
Carried to Collection			R
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Carpentry and Joinery			

ROOFS, ETC

Plate nailed timber roof truss construction

The following is applicable in respect of roof trusses:

Trusses are at maximum 1,10m centres

Roof covering is pre-painted corrugated roof sheeting on 50 x 75mm purlins at 1,1m maximum centres.

Ceilings are generally 6,4mm gypsum plasterboard on 38 x 38mm brandering.

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 fabricaton commences.

Tenderers must study the roof plan and sections as attached to the back of these bills of quantities (refer drawing No.'s CLASS-3 - 001 to 002) and must obtain prices from a qualified and registered roof truss supplier as no claims in this regard will be entertained.

Sawn softwood

1	38 x 114mm Wall plates	m	358	
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Bill No. 4
Carpentry and Joinery

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2	Design, manufacture and deliver on site, plate nailed roof truss construction to Library Block, size 12 580 x 9 348mm overall on plan consisting of double pitched trusses, each truss 9 348 x 2 573mm high overall with 600mm eaves overhang projecting both sides, including all necessary purlins, runners, bracing and cross bracing (wall plates elsewhere)	No	1		
3	Design, manufacture and deliver on site, plate nailed roof truss construction to Classroom Block, size 42 000 x 9 348mm overall on plan consisting of double pitched trusses, each truss 9 348 x 2 573mm high overall with 600mm eaves overhang projecting both sides, including all necessary purlins, runners, bracing and cross bracing (wall plates elsewhere)	No	1		
4	Design, manufacture and deliver on site, plate nailed roof truss construction to Classroom Block, size 47 630 x 9 348mm overall on plan consisting of double pitched trusses, each truss 9 348 x 2 573mm high overall with 600mm eaves overhang projecting both sides, including all necessary purlins, runners, bracing and cross bracing (wall plates elsewhere)	No	1		
5	Design, manufacture and deliver on site, plate nailed roof truss construction to Classroom Block, size 38 600 x 9 348mm overall on plan consisting of double pitched trusses, each truss 9 348 x 2 573mm high overall with 600mm eaves overhang projecting both sides, including all necessary purlins, runners, bracing and cross bracing (wall plates elsewhere)	No	2		
6	Take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gangboarding, temporary and permanent bracing, etc (measured on slope of roof)	m2	1,671		
	<u>Sundries</u>				
7	Two coats creosote on sawn timbers	m2	154		
	<u>EAVES , VERGES , ETC</u>				
	<u>"Everite" pressed nutec-cement</u>				
8	12 x 225mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	681		
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Section No. 3 Alterations and Refurbishments Bill No. 4 Carpentry and Joinery					

SKIRTINGS

Wrought meranti

9	19 x 76mm Skirting including 19mm quadrant bead nailed	m	761	
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DOORS ETC

Wrought hardwood flushback doors with sapele veneer hung to steel frames

10	44mm "TDM" Framed and ledged door 813 x 2 032mm high	No	28	
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Bill No. 4
Carpentry and Joinery

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Carpentry and Joinery

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Item No	Quantity	Rate	Amount
<u>BILL NO. 5</u>			
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
<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>NAILED UP CEILINGS</u>			
<u>9mm "Rhino" gypsum plasterboard with H-type pressed steel jointing strips</u>			
1	Ceilings including 38 x 38mm sawn softwood branderling at 400mm centres	m2	1,176
2	Extra over ceiling for 650 x 650mm trap door of 38 x 50mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	4
<u>"Rhino" gypsum plasterboard cornices</u>			
3	75mm Coved cornices	m	640
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Bill No. 5			
Ceilings, Partitions and Access Flooring			

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<u>"Greenfield Baseline Guardsman" Steel lockers with standard baked enamel finish</u>		
4	"GB002" locker 300 x 450 x 1 800mm high	No 25
<u>WRITING BOARDS, PINNING BOARD, ETC</u>		
<u>"Virtrex" vitreous enamelled writing boards, etc to SABS CSK-36-1980</u>		
5	Green writing board 4 800 x 1 140mm high consisting of two fixed panels each 2 400 x 1 140mm high complete with aluminium chalk rail, etc, plugged	No 26
<u>"Parrot products"</u>		
6	"BD0476" 2 400 x 1 200mm Aluminium framed carpet bulletin board	No 26
<div>Carried to Collection</div> <div> <div>Section No. 3</div> <div>Alterations and Refurbishments</div> <div>Bill No. 7</div> <div>Ironmongery</div> </div>		

Section No. 3

Bill No. 7

Ironmongery

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 Bill No. 7
 Ironmongery

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Item No	Quantity	Rate	Amount
<u>BILL NO. 8</u>			
<u>METALWORK</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions</u>			
Descriptions of bolts shall be deemed to include nuts and washers			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
Metalwork described as"holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
<u>GALVANISED WELDED SCREENS, GATES, ETC</u>			
<u>Galvanised Steel gates and frames</u>			
1	Single gate and frame 965 x 2 067mm high overall, the outer frame of 45 x 45 x 3mm hollow section bolted to wall with and including eight 70mm M80 expansion bolts and the gate 813 x 2 032mm high of 40 x 60 x 2mm hollow section frame with two 40 x 6mm flat section horizontal rails filled in with 20mm diameter vertical rails at 110mm centres fitted with one and a half pairs of suitable pin hinges welded to hollow section steel frame, complete with and including 150mm barrelbolt and padlock	No	26
<u>PRESSED STEEL GALVANISED DOOR FRAMES</u>			
<u>1,2mm Galvanised double rebated frames suitable for one brick walls</u>			
2	Frame for door 813 x 2 032mm high	No	26
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Bill No. 8			
Metalwork			

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Item No		Quantity	Rate	Amount
<u>BILL NO. 10</u>				
<u>PLUMBING AND DRAINAGE</u>				
<u>RAINWATER DISPOSAL</u>				
<u>Pre-painted seamless water rainwater disposal</u>				
1	150 x 75mm Eaves gutters	m	340	
2	Extra over eaves gutter for angle	No	58	
3	Extra over eaves gutter for outlet for 125mm pipe	No	58	
4	75mm Diameter rainwater pipes	m	159	
5	Extra over rainwater pipe for shoe	No	58	
6	Extra over rainwater pipe for bend	No	58	
7	Extra over rainwater pipe for eaves or plinth offset 600mm projection	No	58	
<u>FIRE APPLIANCES ETC</u>				
<u>"Chubb"</u>				
8	4,5kg Carbon dioxide fire extinguisher complete with 520 x 115 x 22mm thick timber backboard plugged to wall and varnished	No	27	
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Section No. 3 Alterations and Refurbishments Bill No. 10 Plumbing and Drainage				

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Item No	Quantity	Rate	Amount
<u>BILL NO. 12</u>			
<u>PAINTWORK</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>PREPARATORY WORK TO EXISTING WORK</u>			
<u>Previously painted plastered surfaces</u>			
Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth			
<u>Previously painted metal surfaces</u>			
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal			
<u>Previously painted wood surfaces</u>			
Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with a suitable filler and finished smooth			
<u>PAINTWORK ETC TO PREVIOUSLY PAINTED WORK</u>			
<u>ON FLOATED PLASTER</u>			
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<u>One coat merit plaster primer thinned with 20% mineral turpentine and two coats Plascon Wall & All emulsion paint</u>					
1	On external walls	m2	1,178		
<u>One coat alkali resistant primer, one undercoat and two coats eggshell enamel paint</u>					
2	On internal walls	m2	1,741		
<u>ON PLASTERBOARD</u>					
<u>One coat primer and two coats interior quality PVA emulsion paint</u>					
3	On ceilings and cornices	m2	1,430		
<u>ON FIBRE-CEMENT</u>					
<u>One coat primer and two coats interior quality acrylic PVA paint</u>					
4	On fascias and barge boards	m2	167		
<u>One coat primer and two coats exterior quality PVA emulsion paint</u>					
<u>ON METAL</u>					
<u>Spot priming defects in pre primed surfaces with zinc chromate primer and applying one undercoat and two coat high gloss enamel paint on steel</u>					
5	On windows with burglar bars	m2	297		
<u>ON WOOD</u>					
<u>Three coats polyurethane semi-gloss varnish</u>					
6	On doors	m2	89		
7	On skirtings, rails, etc not exceeding 300mm girth	m	761		
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Paintwork

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9	Sides of trench and pit excavations exceeding 1,5m deep	m2	74
	<u>Keeping excavations free of water</u>		
10	Keeping excavations free of water		Item
	<u>Earth filling obtained from the excavations on site and compacted to 93% Mod AASHTO density</u>		
11	Backfilling to trenches, holes, etc	m3	11
	<u>Earth filling (G7) supplied by the contractor compacted to 95% Mod AASHTO density</u>		
12	Under floors, steps, paving etc.,.	m3	2
	<u>Earth filling (G5) supplied by the contractor compacted to 93% Mod AASHTO density</u>		
13	Under strip footing	m3	9
14	Under floors, steps, paving etc.,.	m3	16
	<u>Compaction of surfaces</u>		
15	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	25
	<u>Coarse river sand filling supplied by the contractor</u>		
16	Under floors etc	m3	1
	<u>SOIL POISONING</u>		
	<u>Approved soil insecticide</u>		
17	Under floors etc including forming and poisoning V-shaped channels against foundation walls etc, filling in channels and ramming	m2	25
18	To bottom and sides of trenches, holes etc	m2	125
	<u>CONCRETE</u>		
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Section No. 4 New Girls Ablutions (5 Seats, 3 Basins) Bill No. 1 Foundations			

<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
<u>20MPa/19mm concrete</u>					
19	Surface blinding under footings and bases	m3	1		
<u>REINFORCED CONCRETE</u>					
<u>30MPa/19mm concrete</u>					
20	Strip footings	m3	7		
<u>TEST BLOCKS</u>					
21	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	9		
<u>REINFORCEMENT</u>					
<u>Fabric reinforcement</u>					
22	Type 888 fabric reinforcement in concrete footings, etc	m2	33		
<u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u>					
<u>Brickwork of NFX bricks (14MPa nominal compressive strength) in class I mortar in foundations</u>					
23	One brick walls	m2	10		
24	One brick walls in pit	m2	42		
<u>Brickwork reinforcement</u>					
25	150mm Wide reinforcement built in horizontally	m	124		
26	150mm Wide reinforcement built in horizontally in pit	m	487		
<u>FACE BRICKWORK</u>					
Carried to Collection				R	
Section No. 4 New Girls Ablutions (5 Seats, 3 Basins) Bill No. 1 Foundations					

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Section No. 4

Bill No. 1

Foundations

COLLECTION

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Section No. 4

New Girls Ablutions (5 Seats, 3 Basins)

Bill No. 1

Foundations

Item No	Quantity	Rate	Amount
<u>BILL NO. 2</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Cost of tests</u>			
<p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Principal Agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Principal Agent. (Test cubes are measured separately)</p>			
<u>Formwork</u>			
<p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</p>			
Carried to Collection			R
<p>Section No. 4 New Girls Ablutions (5 Seats, 3 Basins) Bill No. 2 Concrete, Formwork and Reinforcemet</p>			

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

30MPa/19mm concrete

1	In surface beds cast on waterproofing(elsewhere)	m3	3
2	Aprons including thickenings (Provisional)	m3	2
3	V-Drain	m3	2
4	In slabs	m3	3
5	In ramps	m3	1

TEST BLOCKS

6	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	12
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SUNDRIES

Finishing top surfaces of concrete smooth with a woodfloat

7	Aprons, pavings, ramps, etc	m2	20
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Finishing top surfaces of concrete with power float

8	Surface beds, slabs, etc.	m2	21
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FORMWORK

ROUGH FORMWORK (DEGREE OF ACCURACY III)

Carried to Collection

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Section No. 4
New Girls Ablutions (5 Seats, 3 Basins)
Bill No. 2
Concrete, Formwork and Reinforcemet

<u>Rough formwork to</u>					
9	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	23		
<u>Permanent formwork to soffits</u>					
10	Corrugated iron sheets as permanent formwork	m2	13		
11	Form 500mm diameter opening in floor slab	No	5		
12	Form 750 x 500mm opening in floor slab complete with precast concrete lid	No	3		
<u>MOVEMENT JOINTS ETC</u>					
<u>Expansion joints with closed cell expanded polystyrene joint filler between vertical concrete and/or brick surfaces</u>					
13	10mm Joints not exceeding 300mm high	m	22		
<u>REINFORCEMENT (PROVISIONAL)</u>					
<u>Fabric reinforcement</u>					
14	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	26		
15	Type 617 fabric reinforcement in concrete surface beds, slabs, etc	m2	13		
Carried to Collection				R	
Section No. 4 New Girls Ablutions (5 Seats, 3 Basins) Bill No. 2 Concrete, Formwork and Reinforcement					

Item No	Quantity	Rate	Amount
<u>BILL NO. 3</u>			
<u>MASONRY</u>			
<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>Face bricks</u>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
<u>Pointing</u>			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.			
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of NFP bricks in class II mortar</u>			
1	Half brick walls in beamfilling	m2	4
2	Half brick walls	m2	27
3	One brick walls	m2	55
4	One brick walls in gables	m2	10
<u>Brickwork reinforcement</u>			
5	75mm Wide reinforcement built in horizontally	m	106
6	150mm Wide reinforcement built in horizontally	m	222
Carried to Collection			R
Section No. 4 New Girls Ablutions (5 Seats, 3 Basins) Bill No. 3 Masonry			

	<u>Turning pieces</u>				
7	115mm Wide turning pieces to lintels etc	m	5		
8	220mm Wide turning pieces to lintels etc	m	3		
	<u>Galvanised hoop iron cramps, ties, etc</u>				
9	30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end built into brickwork	No	26		
	<u>Prestressed fabricated lintels</u>				
10	110mm x 70mm Lintel not exceeding 3m long, hoisted into position and laid over opening in brick wall with ends bedded in class II mortar	m	11		
11	140 x 90mm Lintels in lengths exceeding 3,5m	m	12		
	<u>EXTERNAL FACE BRICKWORK</u>				
	<u>Rainbow light semi facebricks to match existing pointed with recessed horizontal and vertical joints</u>				
12	Extra over brickwork for face brickwork	m2	64		
13	Fair raking cutting	m	7		
	<u>Brick-on-edge header course copings, sills, etc of face bricks pointed with recessed joints on all exposed faces</u>				
14	Extra over brickwork for brick-on-edge header course lintel pointed on face and 110mm soffit	m	7		
15	Extra over brickwork for brick-on-edge 100mm wide sill set sloping and slightly projecting	m	2		
16	Extra over coping	m	4		
	<u>NUTEC-CEMENT WINDOW SILLS</u>				
	<u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc</u>				
17	15 x 150mm Wide sills set flat and slightly projecting	m	6		
	Carried to Collection			R	
	Section No. 4				
	New Girls Ablutions (5 Seats, 3 Basins)				
	Bill No. 3				
	Masonry				

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Item No		Quantity	Rate	Amount
	BILL NO. 5			
	<u>ROOF COVERINGS ETC</u>			
	<u>PROFIED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,8mm Pre-painted continuous corrugated iron profile roof sheeting fixed to timber purlins including accessories</u>			
1	Roof covering with pitch not exceeding 12 degrees	m2	57	
	<u>ROOF AND WALL INSULATION</u>			
	<u>Sisalation 410 housing grade glass fibre reinforced aluminium foil bonded insulation</u>			
2	Insulation laid taut over purlins (at approximately 1 000mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m2	57	
Carried Forward to Summary of Section No. 4				R
Section No. 4 New Girls Ablutions (5 Seats, 3 Basins) Bill No. 5 Roof Coverings, etc				

Item No	Quantity	Rate	Amount
<u>BILL NO. 6</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Particle board:</u>			
Particle board shall comply with the following specifications:			
a) SABS 1300 Particle board: exterior and flooring type			
b) SABS 1301 Particle board: interior type			
<u>Joinery:</u>			
Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc			
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
<u>Decorative laminate finish:</u>			
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish			
Carried to Collection			R
Section No. 4			
New Girls Ablutions (5 Seats, 3 Basins)			
Bill No. 6			
Capentry and Joinery			

ROOFS, ETC

Plate nailed timber roof truss construction

The following is applicable in respect of roof trusses:

Trusses are at maximum 1,05m centres

Roof covering is "global coat" IBR roof sheeting on 50 x 75mm purlins at 1,2m maximum centres.

Ceilings are generally 6,4mm gypsum plasterboard on 38 x 38mm branderling.

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.

Sawn softwood

1	38 x 114mm Wall plates	m	6
2	76 x 228mm Beam	m	2
3	38 x 176mm Rafter	m	50
4	76 x 50mm Purlins	m	49

Sundries

5	Two coats creosote on sawn timbers (Provisional)	m2	10
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Carried to Collection

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Section No. 4
New Girls Ablutions (5 Seats, 3 Basins)
Bill No. 6
Carpentry and Joinery

EAVES , VERGES , ETC

"Marley" or similar approved

6	12 x 225mm PVC foam Fascias and barge boards including jointing strips	m	26		
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DOORS ETC

Wrought hardwood flushback doors with sapele veneer hung to steel frames

7	42mm "TDM" Framed and ledged door 813 x 2 032mm high	No	1		
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Semi-solid flush doors with sapele veneer on both sides hung to steel frames

8	44mm Door 813 x 2 032mm high	No	5		
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Carried to Collection

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Section No. 4
New Girls Ablutions (5 Seats, 3 Basins)
Bill No. 6
Capentry and Joinery

Item No	Quantity	Rate	Amount
<u>BILL NO. 7</u>			
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
<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>NAILED UP CEILINGS</u>			
<u>9mm "Rhino" gypsum plasterboard with H-type pressed steel jointing strips</u>			
1	Ceilings including 38 x 38mm sawn softwood brander at 400mm centres	m2	30
2	Extra over ceiling for 650 x 650mm trap door of 38 x 50mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	1
<u>"Rhino" gypsum plasterboard cornices</u>			
3	75mm Coved cornices	m	25
Carried Forward to Summary of Section No. 4			R
Section No. 4			
New Girls Ablutions (5 Seats, 3 Basins)			
Bill No. 7			
Ceilings, Partitions and Access Flooring			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 8</u>			
	<u>IRONMONGERY</u>			
	<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			
	NP Nickle plated			
	<u>HINGES, BOLTS, ETC.</u>			
	<u>Stainless steel</u>			
1	100 x 75 x 3mm Stainless butt hinge	No	12	
2	BB-179S Barrel bolt lockset	No	5	
	<u>LOCKS</u>			
	<u>"Union"</u>			
3	"460/313" Three lever lockset and handles with chrome plated finish	No	1	
	<u>LETTERS, NAMEPLATES, ETC</u>			
4	180 x 180mm Green vinyl on white chromadeck sheeting with female symbol	No	1	
	Carried to Collection			R
	Section No. 4			
	New Girls Ablutions (5 Seats, 3 Basins)			
	Bill No. 8			
	Ironmongery			

BATHROOM FITTINGS

5 Lockable toilet roll holder with spindle STRX 672
plugged

No

5

Carried to Collection

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Section No. 4
New Girls Ablutions (5 Seats, 3 Basins)
Bill No. 8
Ironmongery

Section No. 4

Bill No. 8

Ironmongery

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Section No. 4

New Girls Ablutions (5 Seats, 3 Basins)

Bill No. 8

Ironmongery

Item No	Quantity	Rate	Amount
<u>BILL NO. 9</u>			
<u>METALWORK</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions</u>			
Descriptions of bolts shall be deemed to include nuts and washers			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
Metalwork described as"holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
<u>STEEL COLUMNS AND BASE PLATES</u>			
1	No	2	
75 x 75 x 850mm High square tubing fixed to brick wall complete with base plate with U-shaped square bracket to fix rafter			
<u>GALVANISED WELDED SCREENS, GATES, ETC</u>			
Carried to Collection			R
Section No. 4 New Girls Ablutions (5 Seats, 3 Basins) Bill No. 9 Metalwork			

<u>Galvanised Steel gates and frames</u>					
2	Single gate and frame 900 x 2 100mm high overall, the outer frame of 45 x 45 x 3mm hollow section bolted to wall with and including eight 70mm M80 expansion bolts and the gate 900 x 2 100mm high of 40 x 60 x 2mm hollow section frame with two 40 x 6mm flat section horizontal rails filled in with 20mm diameter vertical rails at 110mm centres fitted with one and a half pairs of suitable pin hinges welded to hollow section steel frame, complete with and including 150mm barrelbolt and padlock	No	1		
<u>PRESSED STEEL GALVANISED DOOR FRAMES</u>					
<u>1,2mm Galvanised double rebated frames suitable for half brick walls</u>					
3	Frame for door 813 x 2 032mm high	No	5		
<u>1,2mm Galvanised double rebated frames suitable for one brick walls</u>					
4	Frame for door 813 x 2 032mm high	No	1		
<u>GALVANISED STEEL WINDOWS, DOORS, ETC</u>					
<u>Galvanised standard residential windows with burglar bars to opening sashes</u>					
5	Window type NE1, 525 x 655mm high	No	5		
6	Window type NE2, 1 050 x 655mm high	No	3		
Carried to Collection					
Section No. 4 New Girls Ablutions (5 Seats, 3 Basins) Bill No. 9 Metalwork				R	

Section No. 4

Bill No. 9

Metalwork

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New Girls Ablutions (5 Seats, 3 Basins)
Bill No. 9
Metalwork

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Item No	Quantity	Rate	Amount
<p><u>BILL NO. 11</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p><u>(PROVISIONAL)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>uPVC pipes and fittings:</u></p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed</p> <p><u>uPVC pressure pipes and fittings:</u></p> <p>Pipes for water supply shall be of the class stated</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p> <p>Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints</p> <p><u>Copper pipes:</u></p> <p>Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground</p> <p><u>Fixing of pipes</u></p> <p>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</p>			
<p>Carried to Collection</p>			<p>R</p>
<p>Section No. 4 New Girls Ablutions (5 Seats, 3 Basins) Bill No. 11 Plumbing</p>			

Reducing fittings

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

Exposed concrete surfaces

Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster

Excavations

No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling

"Soft rock" and "hard rock" shall be as defined in "Earthworks"

Laying, backfilling, bedding, etc. of pipes

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

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SANS 2001: Medium-pressure pipelines DP2 : Sewers DP4 : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks BE1 : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding

Flush pans

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

Carried to Collection

Section No. 4
New Girls Ablutions (5 Seats, 3 Basins)
Bill No. 11
Plumbing

R

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

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

Waste unions

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings

RAINWATER DISPOSAL

Pre-painted seamless water rainwater disposal

1	150 x 75mm Eaves gutters	m	14
2	Extra over eaves gutter for angle	No	2
3	Extra over eaves gutter for outlet for 125mm pipe	No	1
4	75mm Diameter rainwater pipes	m	1
5	Extra over rainwater pipe for shoe	No	1
6	Extra over rainwater pipe for bend	No	3
7	Extra over rainwater pipe for eaves or plinth offset 600mm projection	No	1

SANITARY FITTINGS

"Charlog" or similar approved

8	570 x 170mm hand basin with one tap hole fixed to wall with and including two number 10mm bolts	No	3
9	200mm "Atlas" VIP pedestal c/w seat and pan complete	No	5

WASTE UNIONS, ETC

"Cobra Watertech"

10	32mm "301CP" Basin waste union	No	3
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TRAPS, ETC

Carried to Collection

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Section No. 4
New Girls Ablutions (5 Seats, 3 Basins)
Bill No. 11
Plumbing

	"Marley"				
11	32 x 50mm Deep seal "P" or "S" trap	No	3		
	TAPS, VALVES, ETC				
12	15mm Plastic pillar taps	No	3		
	SANITARY PLUMBING				
	uPVC pipes				
13	50mm Pipes	m	6		
14	50mm Pipes laid in and including trenches not exceeding 1m deep	m	10		
15	110mm Vent Pipe fixed to wall	m	6		
	Extra over uPVC pipes for fittings				
16	50mm Bend	No	14		
17	50mm Junction	No	2		
18	50mm Access bend	No	2		
	WATER SUPPLIES				
	Class 0 copper pipes				
19	15mm Pipes	m	21		
20	15mm Pipes chased into brick walls	m	3		
21	22mm Pipes	m	15		
	Extra over class 0 copper pipes for capillary fittings				
22	15mm Fittings	No	10		
23	22mm Fittings	No	6		
	TESTING				
24	Testing water pipe system		Item		
	Carried to Collection			R	
	Section No. 4 New Girls Ablutions (5 Seats, 3 Basins) Bill No. 11 Plumbing				

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Bill No	SECTION SUMMARY - New Girls Ablutions (5 Seats, 3 Basins)	Page No	Amount
1	Foundations	65	
2	Concrete, Formwork and Reinforcemet	69	
3	Masonry	72	
4	Water Proofing	73	
5	Roof Coverings, etc	74	
6	Capentry and Joinery	78	
7	Ceilings, Partitions and Access Flooring	79	
8	Ironmongery	82	
9	Metalwork	85	
10	Plastering	86	
11	Plumbing	92	
12	Glazing	93	
13	Paintwork	96	
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Section No. 4 New Girls Ablutions (5 Seats, 3 Basins)			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 1</u>			
	PREAMBLES			
	For preambles refer to Specification of Materials and Method to be used			
	<u>SITE CLEARANCE ETC</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	97	
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m2	97	
	<u>EXCAVATIONS, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	16	
4	Holes	m3	14	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
5	Soft rock	m3	3	
6	Hard rock	m3	1	
	<u>Extra over all excavations for carting away</u>			
7	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	18	
	<u>Risk of collapse of excavations</u>			
8	Sides of trench and hole excavations not exceeding 1,5m deep	m2	32	
	Carried to Collection		R	
	Section No. 5 New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins) Bill No. 1 Foundations			

9	Sides of trench and pit excavations exceeding 1,5m deep	m2	21
<u>Keeping excavations free of water</u>			
10	Keeping excavations free of water		Item
<u>Earth filling obtained from the excavations on site and compacted to 93% Mod AASHTO density</u>			
11	Backfilling to trenches, holes, etc	m3	11
<u>Earth filling (G7) supplied by the contractor compacted to 95% Mod AASHTO density</u>			
12	Under floors, steps, paving etc.,.	m3	5
<u>Earth filling (G5) supplied by the contractor compacted to 93% Mod AASHTO density</u>			
13	Under strip footing	m3	5
14	Under floors, steps, paving etc.,.	m3	10
<u>Compaction of surfaces</u>			
15	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	34
<u>Coarse river sand filling supplied by the contractor</u>			
16	Under floors etc	m3	2
<u>SOIL POISONING</u>			
<u>Approved soil insecticide</u>			
17	Under floors etc including forming and poisoning V-shaped channels against foundation walls etc, filling in channels and ramming	m2	34
18	To bottom and sides of trenches, holes etc	m2	68
<u>CONCRETE</u>			
Carried to Collection			
Section No. 5 New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins) Bill No. 1 Foundations			

<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
<u>20MPa/19mm concrete</u>					
19	Surface blinding under footings and bases	m3	1		
<u>REINFORCED CONCRETE</u>					
<u>30MPa/19mm concrete</u>					
20	Strip footings	m3	7		
<u>TEST BLOCKS</u>					
21	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	9		
<u>REINFORCEMENT</u>					
<u>Fabric reinforcement</u>					
22	Type 888 fabric reinforcement in concrete footings, etc	m2	36		
<u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u>					
<u>Brickwork of NFX bricks (14MPa nominal compressive strength) in class I mortar in foundations</u>					
23	One brick walls	m2	15		
24	One brick walls in pit	m2	20		
<u>Brickwork reinforcement</u>					
25	150mm Wide reinforcement built in horizontally in pit	m	230		
26	150mm Wide reinforcement built in horizontally	m	182		
<u>FACE BRICKWORK</u>					
Carried to Collection				R	
Section No. 5 New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins) Bill No. 1 Foundations					

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Section No. 5

Bill No. 1

Foundations

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Section No. 5

New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins)

Bill No. 1

Foundations

Item No	Quantity	Rate	Amount
<u>BILL NO. 2</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Cost of tests</u>			
<p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Principal Agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Principal Agent. (Test cubes are measured separately)</p>			
<u>Formwork</u>			
<p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</p>			
Carried to Collection			R
<p>Section No. 5 New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins) Bill No. 2 Concrete, Formwork and Reinforcemet</p>			

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

30MPa/19mm concrete

1	In surface beds cast on waterproofing(elsewhere)	m3	4
2	Aprons including thickenings (Provisional)	m3	3
3	V-Drain	m3	3
4	In slabs	m3	1
5	In ramps	m3	1

TEST BLOCKS

6	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	12
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SUNDRIES

Finishing top surfaces of concrete smooth with a woodfloat

7	Aprons, pavings, ramps, etc	m2	52
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Finishing top surfaces of concrete with power float

8	Surface beds, slabs, etc.	m2	41
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FORMWORK

ROUGH FORMWORK (DEGREE OF ACCURACY III)

Carried to Collection

R

Section No. 5
New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins)
Bill No. 2
Concrete, Formwork and Reinforcemet

<u>Rough formwork to</u>					
9	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	52		
<u>Permanent formwork to soffits</u>					
10	Corrugated iron sheets as permanent formwork	m2	7		
11	Form 500mm diameter opening in floor slab	No	4		
12	Form 750 x 500mm opening in floor slab complete with precast concrete lid	No	3		
<u>MOVEMENT JOINTS ETC</u>					
<u>Expansion joints with closed cell expanded polystyrene joint filler between vertical concrete and/or brick surfaces</u>					
13	10mm Joints not exceeding 300mm high	m	26		
<u>REINFORCEMENT (PROVISIONAL)</u>					
<u>Fabric reinforcement</u>					
14	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	86		
15	Type 617 fabric reinforcement in concrete surface beds, slabs, etc	m2	7		
Carried to Collection				R	
Section No. 5 New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins) Bill No. 2 Concrete, Formwork and Reinforcement					

Item No	Quantity	Rate	Amount
<u>BILL NO. 3</u>			
<u>MASONRY</u>			
<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>Face bricks</u>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
<u>Pointing</u>			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.			
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of NFP bricks in class II mortar</u>			
1	Half brick walls in beamfilling	m2	5
2	Half brick walls	m2	14
3	One brick walls	m2	115
4	One brick walls in gables	m2	10
<u>Brickwork reinforcement</u>			
5	75mm Wide reinforcement built in horizontally	m	91
6	150mm Wide reinforcement built in horizontally	m	410
Carried to Collection			R
Section No. 5 New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins) Bill No. 3 Masonry			

	<u>Turning pieces</u>				
7	115mm Wide turning pieces to lintels etc	m	2		
8	220mm Wide turning pieces to lintels etc	m	6		
	<u>Galvanised hoop iron cramps, ties, etc</u>				
9	30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end built into brickwork	No	22		
	<u>Prestressed fabricated lintels</u>				
10	110mm x 70mm Lintel not exceeding 3m long, hoisted into position and laid over opening in brick wall with ends bedded in class II mortar	m	19		
11	140 x 90mm Lintels in lengths exceeding 3,5m	m	6		
	<u>EXTERNAL FACE BRICKWORK</u>				
	<u>Rainbow light semi facebricks to match existing pointed with recessed horizontal and vertical joints</u>				
12	Extra over brickwork for face brickwork	m2	130		
13	Fair raking cutting	m	7		
	<u>Brick-on-edge header course copings, sills, etc of face bricks pointed with recessed joints on all exposed faces</u>				
14	Extra over brickwork for brick-on-edge header course lintel pointed on face and 110mm soffit	m	6		
15	Extra over brickwork for brick-on-edge 100mm wide sill set sloping and slightly projecting	m	5		
16	Extra over coping	m	4		
	<u>NUTEC-CEMENT WINDOW SILLS</u>				
	<u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc</u>				
17	15 x 150mm Wide sills set flat and slightly projecting	m	5		
	Carried to Collection			R	
	Section No. 5				
	New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins)				
	Bill No. 3				
	Masonry				

Section No. 5

Bill No. 3

Masonry

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Section No. 5

New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins)

Bill No. 3

Masonry

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Item No	Quantity	Rate	Amount
<u>BILL NO. 6</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Particle board:</u>			
Particle board shall comply with the following specifications:			
a) SABS 1300 Particle board: exterior and flooring type			
b) SABS 1301 Particle board: interior type			
<u>Joinery:</u>			
Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc			
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
<u>Decorative laminate finish:</u>			
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish			
Carried to Collection			R
Section No. 5			
New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins)			
Bill No. 6			
Capentry and Joinery			

ROOFS, ETC

Plate nailed timber roof truss construction

The following is applicable in respect of roof trusses:

Trusses are at maximum 1,05m centres

Roof covering is "global coat" IBR roof sheeting on 50 x 75mm purlins at 1,2m maximum centres.

Ceilings are generally 6,4mm gypsum plasterboard on 38 x 38mm branderling.

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.

Sawn softwood

1	38 x 114mm Wall plates	m	15
2	76 x 228mm Beam	m	2
3	38 x 176mm Rafter	m	43
4	76 x 50mm Purlins	m	49

Sundries

5	Two coats creosote on sawn timbers (Provisional)	m2	10
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Carried to Collection

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Section No. 5
New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins)
Bill No. 6
Carpentry and Joinery

EAVES , VERGES , ETC

"Marley" or similar approved

6	12 x 225mm PVC foam Fascias and barge boards including jointing strips	m	26	
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DOORS ETC

Wrought hardwood flushback doors with sapele veneer hung to steel frames

7	42mm "TDM" Framed and ledged door 813 x 2 032mm high	No	1	
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Semi-solid flush doors with sapele veneer on both sides hung to steel frames

8	44mm Door 813 x 2 032mm high	No	4	
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Carried to Collection

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Section No. 5
New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins)
Bill No. 6
Capentry and Joinery

Item No	Quantity	Rate	Amount
<u>BILL NO. 7</u>			
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
<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>NAILED UP CEILINGS</u>			
<u>9mm "Rhino" gypsum plasterboard with H-type pressed steel jointing strips</u>			
1	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres	m2	25
2	Extra over ceiling for 650 x 650mm trap door of 38 x 50mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	1
<u>"Rhino" gypsum plasterboard cornices</u>			
3	75mm Coved cornices	m	22
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Section No. 5 New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins) Bill No. 7 Ceilings, Partitions and Access Flooring			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 8</u>			
	<u>IRONMONGERY</u>			
	<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			
	NP Nickle plated			
	<u>HINGES, BOLTS, ETC.</u>			
	<u>Stainless steel</u>			
1	100 x 75 x 3mm Stainless butt hinge	No	10	
2	BB-179S Barrel bolt lockset	No	4	
	<u>LOCKS</u>			
	<u>"Union"</u>			
3	"460/313" Three lever lockset and handles with chrome plated finish	No	1	
	<u>LETTERS, NAMEPLATES, ETC</u>			
4	180 x 180mm Green vinyl on white chromadeck sheeting with male symbol	No	1	
	Carried to Collection			R
	Section No. 5			
	New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins)			
	Bill No. 8			
	Ironmongery			

BATHROOM FITTINGS

5 Lockable toilet roll holder with spindle STRX 672
plugged

No

4

Carried to Collection

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Section No. 5
New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins)
Bill No. 8
Ironmongery

Section No. 5

Bill No. 8

Ironmongery

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Section No. 5

New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins)

Bill No. 8

Ironmongery

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Item No	Quantity	Rate	Amount
<u>BILL NO. 9</u>			
<u>METALWORK</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions</u>			
Descriptions of bolts shall be deemed to include nuts and washers			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
Metalwork described as"holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
<u>STEEL COLUMNS AND BASE PLATES</u>			
1	No	2	
75 x 75 x 850mm High square tubing fixed to brick wall complete with base plate with U-shaped square bracket to fix rafter			
<u>GALVANISED WELDED SCREENS, GATES, ETC</u>			
Carried to Collection			R
Section No. 5 New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins) Bill No. 9 Metalwork			

<u>Galvanised Steel gates and frames</u>					
2	Single gate and frame 900 x 2 100mm high overall, the outer frame of 45 x 45 x 3mm hollow section bolted to wall with and including eight 70mm M80 expansion bolts and the gate 900 x 2 100mm high of 40 x 60 x 2mm hollow section frame with two 40 x 6mm flat section horizontal rails filled in with 20mm diameter vertical rails at 110mm centres fitted with one and a half pairs of suitable pin hinges welded to hollow section steel frame, complete with and including 150mm barrelbolt and padlock	No	1		
<u>PRESSED STEEL GALVANISED DOOR FRAMES</u>					
<u>1,2mm Galvanised double rebated frames suitable for half brick walls</u>					
3	Frame for door 813 x 2 032mm high	No	4		
<u>1,2mm Galvanised double rebated frames suitable for one brick walls</u>					
4	Frame for door 813 x 2 032mm high	No	1		
<u>GALVANISED STEEL WINDOWS, DOORS, ETC</u>					
<u>Galvanised standard residential windows with burglar bars to opening sashes</u>					
5	Window type NE1, 525 x 655mm high	No	4		
6	Window type NE2, 1 050 x 655mm high	No	3		
Carried to Collection					
Section No. 5 New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins) Bill No. 9 Metalwork				R	

Section No. 5

Bill No. 9

Metalwork

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Section No. 5

New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins)

Bill No. 9

Metalwork

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 11</u>			
	<u>PLUMBING AND DRAINAGE</u> <u>(PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>uPVC pipes and fittings:</u>			
	Soil, waste and vent pipes and fittings shall be solvent weld jointed			
	<u>uPVC pressure pipes and fittings:</u>			
	Pipes for water supply shall be of the class stated			
	Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings			
	Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints			
	<u>Copper pipes:</u>			
	Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground			
	<u>Fixing of pipes</u>			
	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			
	Carried to Collection		R	
	Section No. 5 New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins) Bill No. 11 Plumbing			

Reducing fittings

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

Exposed concrete surfaces

Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster

Excavations

No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling

"Soft rock" and "hard rock" shall be as defined in "Earthworks"

Laying, backfilling, bedding, etc. of pipes

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

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SANS 2001: Medium-pressure pipelines DP2 : Sewers DP4 : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks BE1 : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding

Flush pans

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

Carried to Collection

Section No. 5
New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins)
Bill No. 11
Plumbing

R

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

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

Waste unions

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings

RAINWATER DISPOSAL

Pre-painted seamless water rainwater disposal

1	150 x 75mm Eaves gutters	m	12
2	Extra over eaves gutter for angle	No	2
3	Extra over eaves gutter for outlet for 125mm pipe	No	1
4	75mm Diameter rainwater pipes	m	1
5	Extra over rainwater pipe for shoe	No	1
6	Extra over rainwater pipe for bend	No	3
7	Extra over rainwater pipe for eaves or plinth offset 600mm projection	No	1

SANITARY FITTINGS

"Charlog" or similar approved

8	570 x 170mm hand basin with one tap hole fixed to wall with and including two number 10mm bolts	No	3
9	200mm "Atlas" VIP pedestal c/w seat and pan complete	No	4
10	320 x 350mm Urinal fitted with waterless urinal c/w fitting complete	No	6

WASTE UNIONS, ETC

Carried to Collection

R

Section No. 5
New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins)
Bill No. 11
Plumbing

	"Cobra Watertech"			
11	32mm "301CP" Basin waste union	No	3	
	<u>TRAPS, ETC</u>			
	<u>"Marley"</u>			
12	32 x 50mm Deep seal "P" or "S" trap	No	3	
	<u>TAPS, VALVES, ETC</u>			
13	15mm Plastic pillar taps	No	3	
	<u>SANITARY PLUMBING</u>			
	<u>uPVC pipes</u>			
14	50mm Pipes	m	6	
15	50mm Pipes laid in and including trenches not exceeding 1m deep	m	12	
16	110mm Vent Pipe fixed to wall	m	3	
	<u>Extra over uPVC pipes for fittings</u>			
17	50mm Bend	No	10	
18	50mm Junction	No	1	
19	50mm Access bend	No	2	
	<u>WATER SUPPLIES</u>			
	<u>Class 0 copper pipes</u>			
20	15mm Pipes	m	11	
21	15mm Pipes chased into brick walls	m	3	
22	22mm Pipes	m	180	
	<u>Extra over class 0 copper pipes for capillary fittings</u>			
23	15mm Fittings	No	15	
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	Section No. 5 New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins) Bill No. 11 Plumbing			

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Bill No. 11

Plumbing

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Section No. 5

New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins)

Bill No. 11

Plumbing

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Item No		Quantity	Rate	Amount
	BILL NO. 13			
	PAINTWORK			
	ON FLOATED PLASTER			
	<u>One coat alkali resistant primer, one undercoat and two coats eggshell enamel paint</u>			
1	On internal walls	m2	145	
	ON PLASTERBOARD			
	<u>One coat primer and two coats interior quality PVA emulsion paint</u>			
2	On ceilings and cornices	m2	25	
	ON FIBRE-CEMENT			
	<u>One coat primer and two coats exterior quality PVA emulsion paint</u>			
3	On internal window sills not exceeding 300mm wide or girth	m	5	
	ON METAL			
	<u>Spot priming defects in pre primed surfaces with zinc chromate primer and applying one undercoat and two coat high gloss enamel paint on steel</u>			
4	On steel columns	m2	1	
	ON WOOD			
	<u>One coat wood primer, one coat universal undercoat and two coats Plascon Double Velvagio Satin Polyurethane enamel paint</u>			
5	On doors	m2	10	
	Carried to Collection		R	
	Section No. 5 New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins) Bill No. 13 Paintwork			

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Section No. 5

Bill No. 13

Paintwork

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New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins)

Bill No. 13

Paintwork

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<u>Extra over trench and hole excavations in earth for excavation in</u>							
5	Soft rock	m3	4				
6	Hard rock	m3	2				
<u>Extra over all excavations for carting away</u>							
7	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	29				
<u>Risk of collapse of excavations</u>							
8	Sides of trench and hole excavations not exceeding 1,5m deep	m2	50				
9	Sides of trench and pit excavations exceeding 1,5m deep	m2	26				
<u>Keeping excavations free of water</u>							
10	Keeping excavations free of all water other than subterranean water			Item			
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>							
11	Backfilling to trenches, holes, etc	m3	9				
<u>Earth filling (G7) supplied by the contractor compacted to 95% Mod AASHTO density</u>							
12	Under floors, steps, pavings, etc	m3	4				
<u>Earth filling (G5) supplied by the contractor compacted to 95% Mod AASHTO density</u>							
13	Under strip footing	m3	7				
14	Under floors, steps, pavings, etc	m3	10				
Carried to Collection						R	
Section No. 6 New Educators Ablutions + Paraplegic (4 Seats, 1 Urinal, Bill No. 1 Foundations (Provisional)							

<u>Compaction of surfaces</u>					
15	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	35		
<u>Coarse river sand filling supplied by the contractor</u>					
16	Under floors etc	m3	1		
<u>SOIL POISONING</u>					
<u>Soil insecticide</u>					
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	35		
18	To bottoms and sides of trenches	m2	100		
<u>CONCRETE</u>					
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
<u>20MPa/19mm concrete</u>					
19	Surface blinding under footings and bases	m3	1		
<u>30MPa/19mm concrete</u>					
20	Strip footings	m3	4		
<u>TEST BLOCKS</u>					
21	Making and testing 150 x 150 x 150mm concrete strenght test cube (Provisional)	No	9		
<u>REINFORCEMENT</u>					
<u>Fabric reinforcement</u>					
22	Type 888 fabric reinforcement in concrete footings, etc	m2	29		
Carried to Collection				R	
Section No. 6 New Educators Ablutions + Paraplegic (4 Seats, 1 Urinal, Bill No. 1 Foundations (Provisional)					

BRICKWORK

Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar

23	One brick walls	m2	13
24	One brick walls in pit	m2	26

Brickwork reinforcement

25	150mm Wide reinforcement built in horizontally	m	178
26	150mm Wide reinforcement built in horizontally in pit	m	301

Rainbow light semi facebricks to match existing pointed with recessed horizontal and vertical joints

27	Extra over brickwork for face brickwork	m2	13
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PLASTERING

Cement plaster on brickwork

28	On walls in pit	m2	30
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FLOOR AND WALL SEALERS

Minimum two coats "Coprox" or similar approved on plaster finish

29	On walls	m2	30
30	On floors	m2	11

Carried to Collection

Section No. 6
New Educators Ablutions + Paraplegic (4 Seats, 1 Urinal,
Bill No. 1
Foundations (Provisional)

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Section No. 6

Bill No. 1

Foundations (Provisional)

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Section No. 6

New Educators Ablutions + Paraplegic (4 Seats, 1 Urinal,

Bill No. 1

Foundations (Provisional)

Item No	Quantity	Rate	Amount
<u>BILL NO. 2</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Cost of tests</u>			
<p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Principal Agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Principal Agent. (Test cubes are measured separately)</p>			
<u>Formwork</u>			
<p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</p>			
Carried to Collection		R	
<p>Section No. 6 New Educators Ablutions + Paraplegic (4 Seats, 1 Urinal, Bill No. 2 Concrete, Formwork and Reinforcement</p>			

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

30MPa/19mm concrete

1	Aprons including thickenings (Provisional)	m3	2
2	V-Drain	m3	2
3	Surface beds on waterproofing	m3	5
4	In slabs	m3	2
5	In ramps	m3	1

TEST BLOCKS

6	Making and testing 150 x 150 x 150mm concrete strenght test cube (Provisional)	No	12
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CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a wood float

7	Aprons, channels, etc to falls	m2	54
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Finishing top surfaces of concrete smooth with power float

8	Slabs, etc	m2	46
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ROUGH FORMWORK (DEGREE OF ACCURACY II)

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Section No. 6
New Educators Ablutions + Paraplegic (4 Seats, 1 Urinal,
Bill No. 2
Concrete, Formwork and Reinforcement

<u>Rough formwork to sides</u>					
9	Edges, risers, ends and reveals not exceeding 300mm high or wide (Provisional)	m	54		
<u>Permanent formwork to soffits</u>					
10	Corrugated iron sheets as permanent formwork	m2	11		
11	Form 500mm diameter opening in floor slab	No	4		
12	Form 750 x 500mm opening in floor slab complete with precast concrete lid	No	3		
<u>MOVEMENT JOINTS ETC</u>					
<u>Expansion joints with closed cell expanded polystyrene joint filler between vertical concrete and/or brick surfaces</u>					
13	10mm Joints not exceeding 300mm high	m	29		
<u>REINFORCEMENT (PROVISIONAL)</u>					
<u>Fabric reinforcement</u>					
14	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	35		
15	Type 617 fabric reinforcement in concrete surface beds, slabs, etc	m2	11		
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Section No. 6 New Educators Ablutions + Paraplegic (4 Seats, 1 Urinal, Bill No. 2 Concrete, Formwork and Reinforcement					

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 3</u>			
	<u>MASONRY</u>			
	<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>Face bricks</u>			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	<u>Pointing</u>			
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.			
	<u>SUPERSTRUCTURE</u>			
	<u>Brickwork of NFP bricks in class II mortar</u>			
1	Half brick walls in beamfilling	m2	5	
2	Half brick walls	m2	5	
3	One brick walls	m2	53	
4	One brick walls in gables	m2	10	
	<u>BRICKWORK SUNDRIES</u>			
	<u>Brickwork reinforcement</u>			
5	75mm Wide reinforcement built in horizontally	m	40	
	Carried to Collection			R
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6	150mm Wide reinforcement built in horizontally	m	224		
	<u>Turning pieces</u>				
7	115mm Wide turning pieces to lintels etc	m	3		
8	220mm Wide turning pieces to lintels etc	m	6		
	<u>Prestressed fabricated lintels</u>				
9	110 x 75mm Lintels in lengths not exceeding 3m	m	20		
10	140 x 90mm Lintels in lengths exceeding 3,5m	m	9		
	<u>Galvanised hoop iron cramps, ties, etc</u>				
11	30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end built into brickwork	No	20		
	<u>EXTERNAL FACE BRICKWORK</u>				
	<u>Rainbow light semi facebricks to match existing pointed with recessed horizontal and vertical joints</u>				
12	Extra over brickwork for face brickwork	m2	66		
13	Fair raking cutting	m	7		
	<u>Brick-on-edge header course copings, sills, etc of Rainbow light semi facebricks to match existing pointed with recessed horizontal and vertical joints</u>				
14	Extra over brickwork for brick-on-edge header course lintel pointed on face and 110mm soffit	m	6		
15	220mm Wide sill set sloping and slightly projecting	m	3		
16	Extra over coping	m	5		
	<u>NUTEC-CEMENT WINDOW SILLS</u>				
	<u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc</u>				
17	15 x 150mm Wide sills set flat and slightly projecting	m	3		
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Bill No. 3

Masonry

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Masonry

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Item No	Quantity	Rate	Amount
<u>BILL NO. 6</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Particle board:</u>			
Particle board shall comply with the following specifications:			
a) SABS 1300 Particle board: exterior and flooring type			
b) SABS 1301 Particle board: interior type			
<u>Joinery:</u>			
Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc			
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
<u>Decorative laminate finish:</u>			
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish			
Carried to Collection			R
Section No. 6 New Educators Ablutions + Paraplegic (4 Seats, 1 Urinal, Bill No. 6 Carpentry and Joinery			

ROOFS, ETC

Plate nailed timber roof truss construction

The following is applicable in respect of roof trusses:

Trusses are at maximum 1,10m centres

Roof covering is pre-painted corrugated roof sheeting on 50 x 75mm purlins at 1,1m maximum centres.

Ceilings are generally 6,4mm gypsum plasterboard on 38 x 38mm brandering.

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 fabricaton commences.

Sawn softwood

1	38 x 114mm Wall plates	m	14
2	76 x 228mm Beam	m	3
3	38 x 176mm Rafter	m	51
4	76 x 50mm Purlins	m	44

Sundries

5	Two coats creosote on sawn timbers	m2	10
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Section No. 6
New Educators Ablutions + Paraplegic (4 Seats, 1 Urinal,
Bill No. 6
Carpentry and Joinery

EAVES , VERGES , ETC

"Everite" pressed nutec-cement

6	225mm Premier 2FAS42 pre-painted steel fascia and barge board	m	27	
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DOORS ETC

Wrought hardwood flushback doors with sapele veneer hung to steel frames

7	44mm "TDM" Framed and ledged door 813 x 2 032mm high	No	3	
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Semi-solid flush doors with sapele veneer on both sides hung to steel frames

8	44mm Door 813 x 2 032mm high	No	3	
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New Educators Ablutions + Paraplegic (4 Seats, 1 Urinal,
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Carpentry and Joinery

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Item No	Quantity	Rate	Amount
<u>BILL NO. 7</u>			
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
<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>NAILED UP CEILINGS</u>			
<u>9mm "Rhino" gypsum plasterboard with H-type pressed steel jointing strips</u>			
1	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres	m2	19
2	Extra over ceiling for 650 x 650mm trap door of 38 x 50mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	2
<u>"Rhino" gypsum plasterboard cornices</u>			
3	75mm Coved cornices	m	30
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Section No. 6 New Educators Ablutions + Paraplegic (4 Seats, 1 Urinal, Bill No. 7 Ceilings, Partitions and Access Flooring			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 8</u>			
	<u>IRONMONGERY</u>			
	<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			
	NP Nickle plated			
	<u>HINGES, BOLTS, ETC</u>			
	<u>Brass,Stainless Steel</u>			
1	100 x 75 x 3mm Butt hinge	No	12	
2	BB-179S Barrel bolt lockset	No	3	
	<u>LOCKS</u>			
	<u>"Union" or similar approved</u>			
3	"460/313" Three lever lockset and handles with chrome plated finish	No	3	
	<u>LETTERS, NAMEPLATES, ETC</u>			
4	180 x 180mm Green vinyl on white chromadeck sheeting with female symbol	No	1	
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	Section No. 6			
	New Educators Ablutions + Paraplegic (4 Seats, 1 Urinal,			
	Bill No. 8			
	Ironmongery			

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Bill No. 8

Ironmongery

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New Educators Ablutions + Paraplegic (4 Seats, 1 Urinal,

Bill No. 8

Ironmongery

Item No	Quantity	Rate	Amount
<u>BILL NO. 9</u>			
<u>METALWORK</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions</u>			
Descriptions of bolts shall be deemed to include nuts and washers			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
Metalwork described as"holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
<u>STEEL COLUMNS AND BASE PLATES</u>			
1	75 x 75 x 850mm High square tubing fixed to brick wall complete with base plate with U-shaped square bracket to fix rafter	No	2
<u>GALVANISED WELDED SCREENS, GATES, ETC</u>			
<u>Galvanised Steel gates and frames</u>			
2	Single gate and frame 965 x 2 067mm high overall, the outer frame of 45 x 45 x 3mm hollow section bolted to wall with and including eight 70mm M80 expansion bolts and the gate 813 x 2 032mm high of 40 x 60 x 2mm hollow section frame with two 40 x 6mm flat section horizontal rails filled in with 20mm diameter vertical rails at 110mm centres fitted with one and a half pairs of suitable pin hinges welded to hollow section steel frame, complete with and including 150mm barrelbolt and padlock	No	3
<u>PRESSED STEEL GALVANISED DOOR FRAMES</u>			
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<u>1,2mm Galvanised double rebated frames suitable for half brick walls</u>		
3	Frame for door 813 x 2 032mm high	No 3
<u>1,2mm Galvanised double rebated frames suitable for one brick walls</u>		
4	Frame for door 813 x 2 032mm high	No 3
<u>GALVANISED STEEL WINDOWS, DOORS, ETC</u>		
<u>Galvanised standard residential windows with burglar bars to opening sashes</u>		
5	Window size, 533 x 655mm high	No 6
<div> <div>Carried to Collection</div> <div> <div>Section No. 6</div> <div>New Educators Ablutions + Paraplegic (4 Seats, 1 Urinal, Bill No. 9 Metalwork</div> </div> </div>		

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Bill No. 9

Metalwork

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Metalwork

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Item No		Quantity	Rate	Amount
<u>BILL NO. 11</u>				
<u>PLUMBING AND DRAINAGE</u>				
<u>RAINWATER DISPOSAL</u>				
<u>Pre-painted seamless water rainwater disposal</u>				
1	150 x 75mm Eaves gutters	m	12	
2	Extra over eaves gutter for angle	No	2	
3	Extra over eaves gutter for outlet for 125mm pipe	No	1	
4	75mm Diameter rainwater pipes	m	1	
5	Extra over rainwater pipe for shoe	No	1	
6	Extra over rainwater pipe for bend	No	3	
7	Extra over rainwater pipe for eaves or plinth offset 600mm projection	No	1	
<u>SANITARY FITTINGS</u>				
<u>"Charlog" or similar approved</u>				
8	570 x 170mm hand basin with one tap hole fixed to wall with and including two number 10mm bolts	No	3	
9	200mm "Atlas" VIP pedestal c/w seat and pan complete	No	4	
10	320 x 350mm Urinal fitted with waterless urinal c/w fitting complete	No	1	
<u>WASTE UNIONS, ETC</u>				
<u>"Cobra Watertech"</u>				
11	32mm "301CP" Basin waste union	No	3	
<u>TRAPS, ETC</u>				
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	<u>"Marley"</u>				
12	32 x 50mm Deep seal "P" or "S" trap	No	3		
	<u>TAPS, VALVES, ETC</u>				
13	15mm Plastic pillar taps	No	2		
14	15mm Chromium plated elbow action pillar tap	No	1		
	<u>SANITARY PLUMBING</u>				
	<u>uPVC pipes</u>				
15	50mm Pipes	m	12		
16	50mm Pipes laid in and including trenches not exceeding 1m deep	m	7		
17	110mm Vent Pipe fixed to wall	m	6		
	<u>Extra over uPVC pipes for fittings</u>				
18	50mm Bend	No	9		
19	50mm Junction	No	5		
20	50mm Access bend	No	3		
	<u>WATER SUPPLIES</u>				
	<u>Class 0 copper pipes</u>				
21	15mm Pipes	m	3		
22	15mm Pipes chased into brick walls	m	12		
23	22mm Pipes	m	11		
	<u>Extra over class 0 copper pipes for capillary fittings</u>				
24	15mm Fittings	No	15		
25	22mm Fittings	No	6		
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	Bill No. 11				
	Plumbing and Drainage				

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Bill No. 11

Plumbing and Drainage

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New Educators Ablutions + Paraplegic (4 Seats, 1 Urinal,

Bill No. 11

Plumbing and Drainage

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Item No		Quantity	Rate	Amount
BILL NO. 13				
<u>PAINTWORK</u>				
<u>ON FLOATED PLASTER</u>				
<u>One coat alkali resistant primer, one undercoat and two coats eggshell enamel paint</u>				
1	On internal walls	m2	75	
<u>ON PLASTERBOARD</u>				
<u>One coat primer and two coats interior quality PVA emulsion paint</u>				
2	On ceilings and cornices	m2	19	
<u>ON FIBRE-CEMENT</u>				
<u>One coat primer and two coats interior quality acrylic PVA paint</u>				
3	On internal window sills not exceeding 300mm wide or girth	m	3	
<u>ON METAL</u>				
<u>Spot priming defects in pre primed surfaces with zinc chromate primer and applying one undercoat and two coat high gloss enamel paint on steel</u>				
4	On steel columns	m2	1	
<u>ON WOOD</u>				
<u>One coat wood primer, one coat universal undercoat and two coats Plascon Double Velvagio Satin Polyurethane enamel paint</u>				
5	On doors	m2	10	
Carried to Collection				R
Section No. 6 New Educators Ablutions + Paraplegic (4 Seats, 1 Urinal, Bill No. 13 Paintwork				

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Paintwork

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Paintwork

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Item No	Quantity	Rate	Amount
<u>BILL NO. 1</u>			
<u>EXCAVATIONS, FILLING, ETC, OTHER THAN BULK</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
1	Trenches m3	5	
<u>Extra over trench and hole excavations in earth for excavation in</u>			
2	Soft rock m3	3	
3	Hard rock m3	3	
<u>Extra over all excavations for carting away</u>			
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor m3	5	
<u>Keeping excavations free of water</u>			
5	Keeping excavations free of water	Item	
<u>Earth filling (G5) supplied by the contractor compacted to 95% Mod AASHTO density</u>			
6	Under floors, steps, paving etc,. m3	12	
<u>CONCRETE</u>			
<u>REINFORCED CONCRETE</u>			
<u>30MPa/19mm concrete</u>			
7	Strip footings m3	6	
8	Surface bed, slabs, etc m3	3	
9	In V-Drain cast in panels m3	2	
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Section No. 7 External Works Bill No. 1 Water Reticulation			

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Reducing fittings

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

Excavations

No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling

Laying, backfilling, bedding, etc. of pipes

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

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

SABS 1200 L : Medium-pressure pipelines

LD : Sewers

LE : Stormwater drainage

Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200

DB : 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 1200

LB : Bedding (Pipes)

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

WATER SUPPLY PIPES

Class 12 HDPE pressure pipes

13 75mm Pipes laid in and including trenches not exceeding 1m deep

m

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External Works
Bill No. 1
Water Reticulation

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Bill No. 1

Water Reticulation

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Section No. 7

External Works

Bill No. 1

Water Reticulation

Item No		Quantity	Rate	Amount
	<u>BILL NO. 2</u>			
	<u>SEWERS (PROVISIONAL)</u>			
	<u>STANDARD PREAMBLES</u>			
	The contractor is referred to the Model Preambles for Trades (2008 edition) as issued the Association of South African Quantity Surveyors before pricing this bill			
	<u>SOIL DRAINAGE</u>			
	<u>uPVC drain pipes</u>			
1	110mm uPVC perforated drain pipe laid in trenches not exceeding 2m deep including earthworks and fittings complete	m	6	
	<u>Heavy duty uPVC pipes</u>			
2	50mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep, bedding, backfilling, compaction and disposal of surplus excavated material	m	18	
	<u>Extra over heavy duty uPVC pipes for fittings</u>			
3	50mm Bend	No	12	
	<u>FRENCH DRAIN</u>			
	<u>EXCAVATE</u>			
	<u>Excavate with machine in all materials for trenches, backfill, compact and dispose of surplus material for depth:</u>			
4	Excavate soakaway	m3	18	
5	Carting away of excavated material	m3	18	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
6	Soft rock	m3	7	
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	Section No. 7			
	External Works			
	Bill No. 2			
	Sewer Drainage (Provisional)			

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Bill No. 2

Sewer Drainage (Provisional)

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External Works

Bill No. 2

Sewer Drainage (Provisional)

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Item No	Quantity	Rate	Amount
<u>BILL NO. 4</u>			
PREAMBLES			
For preambles refer to Specification of Materials and Method to be used			
<u>SITE CLEARANCE ETC</u>			
<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	50
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m2	50
<u>EXCAVATIONS, FILLING, ETC</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	15
<u>Extra over trench and hole excavations in earth for excavation in</u>			
4	Soft rock	m3	2
5	Hard rock	m3	1
<u>Extra over all excavations for carting away</u>			
6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	15
<u>Keeping excavations free of water</u>			
7	Keeping excavations free of water	Item	
<u>Earth filling (G5) supplied by the contractor compacted to 93% Mod AASHTO density</u>			
8	Under floors, steps, paving etc.,	m3	17
Carried to Collection			R
Section No. 7 External Works Bill No. 3 Walkways, etc.			

<u>Compaction of surfaces</u>					
9	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	50		
<u>CONCRETE</u>					
<u>REINFORCED CONCRETE</u>					
<u>30MPa/19mm concrete</u>					
10	Surface beds, slabs, etc	m3	7		
<u>TEST BLOCKS</u>					
11	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	3		
<u>CONCRETE SUNDRIES</u>					
<u>Finishing top surfaces of concrete smooth with a wood float</u>					
12	Slabs, etc to falls	m2	50		
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>					
<u>Rough formwork to sides</u>					
13	Edges, risers, ends and reveals not exceeding 300mm high or wide (Provisional)	m	84		
<u>MOVEMENT JOINTS ETC</u>					
<u>Expansion joints with closed cell expanded polystyrene joint filler between vertical concrete and/or brick surfaces</u>					
14	10mm Joints not exceeding 300mm high	m	26		
<u>REINFORCEMENT</u>					
Carried to Collection				R	
Section No. 7 External Works Bill No. 3 Walkways, etc.					

[illegible]

Section No. 7

Bill No. 3

Walkways, etc.

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

178

179

180

Carried Forward to Summary of Section No. 7

R

Section No. 7
External Works
Bill No. 3
Walkways, etc.

Bill No	SECTION SUMMARY - External Works	Page No	Amount
1	Water Reticulation	174	
2	Sewer Drainage (Provisional)	177	
3	Walkways, etc.	181	
Carried to Final Summary			R
Section No. 7 External Works			

Item No	Quantity	Rate	Amount
<u>BILL NO. 1</u>			
<u>PROVISIONAL SUMS AND BUDGETRY ALLOWANCES</u>			
<u>NOTES:</u>			
<p>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</p> <p>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</p> <p>3. Where special attendance includes the provision of hoisting facilities for a Sub-Contractor then the Contractor shall:-</p> <ul style="list-style-type: none"> * 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, <p>all to enable the Sub-Contractor to execute the hoisting or lowering of his material, etc. using the facilities provided by the Contractor</p> <p>4. Under no circumstances may any Provisional Amount, etc. be extended at an amount lower than the amount given in this Bill</p> <p>5. CPAP Formula Work Group 190 shall apply to all lump sum amounts of profit and attendance</p>			
Carried to Collection			
			R
Section No. 8 Provisional Sums Bill No. 1 Provisional Sums			

PROVISIONAL SUMS

ASBESTOS INSPECTION AUTHORITY (AIA)

1 Allow a Provisional Amount of R R60,000.00 Sixty
Thousand for appointment of AIA to be used at the
discretion of the Principal Agent and to be deducted in
whole or in part if not required

Item 60,000.00

2 Profit

%

3 Allow for general attendance

%

COMMUNITY LIASON OFFICER (CLO)

4 Allow a Provisional Amount of R R100,000.00 One Hundred
Thousand for appointment of CLO to be used at the
discretion of the Principal Agent and to be deducted in
whole or in part if not required

Item 100,000.00

5 Profit

%

6 Allow for general attendance

%

Carried to Collection

R

Section No. 8
Provisional Sums
Bill No. 1
Provisional Sums

Section No. 8

Bill No. 1

Provisional Sums

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

183

184

185

Carried to Final Summary

R

Section No. 8
Provisional Sums
Bill No. 1
Provisional Sums

Section No	Page No	Amount
<u>FINAL SUMMARY</u>		
<u>PART A</u>		
1 Preliminary and General	24	
2 Demolitions	31	
3 Alterations and Refurbishments	60	
4 New Girls Ablutions (5 Seats, 3 Basins)	97	
5 New Boys Ablutions (4 Seats, 6 Urinals, 3 Basins)	134	
6 New Educators Ablutions + Paraplegic (4 Seats, 1 Urinal, 3 Basins)	169	
7 External Works	182	
8 Provisional Sums	186	
Sub Total (A)		R
<u>PART B</u>		
Electrical Installations (See separate document - Part B) (Value-Added Tax excluded)	Item	
Sub-Total (B)		R
<u>CONTINGENCIES</u>		
Allow 5% contingencies to be used at the discretion of the Principal Agent and to be deducted in whole or in part if not required		R
Sub-Total (C)		R
Add Value Added Tax		R
Carried to Form of Tender		R