

Item No		Quantity	Rate	Amount
	<u>SECTION 1</u>			
	<u>BILL No.1</u>			
	<u>PRELIMINARIES</u>			
	<u>BUILDING AGREEMENT AND PRELIMINARIES</u>			
	1. The Principal Building Agreement shall be the JBCC Series Edition 4.1, March 2005 as recommended by the Joint Building Contract Committee and as amended by this Tender Enquiry. 2. The Preliminaries shall be JBCC Series 2000, May 2005 for use with the Principal Building Agreement as recommended by the Joint Building Contracts Committee and as amended by this Tender Enquiry shall be deemed to be incorporated herein. 3. Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof. These clauses are hereinafter referred to by clause number and heading only. 4. Where standard clauses or alternatives are not entirely applicable to this contract, such modifications, corrections or additions as are necessary, are given as far as possible under each relevant clause heading. Additional Preliminary clauses are contained in Section C hereof. 5. No claim whatsoever shall be entertained in respect of errors or omissions in pricing due to brevity of descriptions of items which are fully described when read in conjunction with the relevant clauses of the said Principal Building Agreement, Preliminaries and Preambles.			
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6. The Tenderers shall allow opposite each of the clauses whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out herein. Only priced items will be considered in respect of any adjustment of this Section. Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.

7. Where modifications or amendments as described are made, such modifications and/or amendments shall supercede any conflicting provisions in the relevant clauses of the Standard Preliminaries or the Principal Building Agreement and the Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.

8. Where any item is not relevant to this specific contract, such item is marked N/A.

9. 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 by insertion of "F", "V", "T" as the case may be against the price in the "rate" column immediately preceding the "amount" column, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value, and "T" denotes an amount proportionate to time.

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SECTION A: PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

Definitions and interpretation (Clause 1).

1 F: V: T:

Item

OBJECTIVE AND PREPARATION

Offer, acceptance and performance (Clause 2).

2 F: V: T:

Item

Documents (Clause 3).

Clause 3.1 is deleted and substituted with: 'This tender is for a Government Contract. No Payment Guarantee will be provided.'

Clause 3.3 is deleted and substituted with:

The principal agent shall complete the schedule and arrange for formal signing of the agreement once the priced bill of quantities/lump sum document, security, insurances and waiver of lien, where acceptable, have been provided and effected'.

3 F: V: T:

Item

Design responsibility (Clause 4).

4 F: V: T:

Item

Employer's agents (Clause 5).

5 F: V: T:

Item

Site representative (Clause 6).

6 F: V: T:

Item

Compliance with regulations (Clause 7).

7 F: V: T:

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	Works risk (Clause 8)			
8	F: V: T: Indemnities (Clause 9). Clause 9.1.1 is deleted and substituted with: Claims from other parties consequent upon death of bodily injury or illness of any person or physical loss or damage to any property, other than the works, arising out or due to the execution of the works or occupation of the site by the contractor or his sub contractors'.	Item		
9	F: V: T: Works insurances (Clause 10).	Item		
10	F: V: T: Liability insurances (Clause 11).	Item		
11	F: V: T: Effecting insurances (Clause 12).	Item		
12	F: V: T: State Provisions (Clause 13).	Item		
13	F: V: T: Security (Clause 14).	Item		
14	F: V: T: <u>EXECUTION</u> Preparation for and execution of the works (Clause 15).	Item		
15	F: V: T: Access to the works (Clause 16).	Item		
16	F: V: T: Contract instructions (Clause 17).	Item		
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17	F: V: T: Setting out of the works (Clause 18.3). 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. Should incorrect information be given to the contractor in terms of 18.1 and 18.2, which causes the incorrect setting out of the works, the contractor shall not be liable for such incorrect setting out.	Item		
18	F: V: T: Assignment (Clause 19).	Item		
19	F: V: T: Nominated subcontractors (Clause 20).	Item		
20	F: V: T: Selected subcontractors (Clause 21).	Item		
21	F: V: T: Employer's Direct contractors (Clause 22).	Item		
22	F: V: T: Contractor's Domestic subcontractors (Clause 23).	Item		
23	F: V: T: <u>COMPLETION</u> Practical completion (Clause 24).	Item		
24	F: V: T: Works completion (Clause 25).	Item		
25	F: V: T: Final completion (Clause 26).	Item		
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Latent defects liability period (Clause 27).

Clause 27.0 is amended by the addition of the following clauses:

"27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations".

"27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accumulates in order to attend to a comprehensive list of defects"

26 F: V: T:

Item

Sectional completion (Clause 28).

27 F: V: T:

Item

Revision of date for practical completion (Clause 29).

28 F: V: T:

Item

Penalty for non-completion (Clause 30).

29 F: V: T:

Item

PAYMENT

Interim payment to the contractor (Clause 31).

The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.3 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank.

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DISPUTE

Dispute Settlement (Clause 40)

38 F: V: T:

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SUBSTITUTE PROVISIONS

State Clauses (Clause 41)

39 F: V: T:

Item

CONTRACT VARIABLES

The Schedule: Pre-Tender information (Clause 42).

40 F: V: T:

Item

CONTRACTING AND OTHER PARTIES (Clause 42.1)

Employer: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East
London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East
London

Principal Agent: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East
London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East
London

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CONTRACT DETAILS (Clause 42.2)

Clause 42.2.1

Works Description: Construction of new ablution facilities.

Clause 42.2.2

Site Description: The site is the existing school.

Clause 42.2.3

Work or Installations by Others: NIL

Clause 42.2.4

This Agreement is for a State Contract :- Yes

Payment will be made for materials and goods:- Yes

Dispute resolution :- Mediation (in terms of clause 40) followed by litigation.

Arbitration rules as recommended by the Association of Arbitrators (SA) :- N/A

Clause 42.2.5

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

To be advised.

Clause 42.2.6

Period for the commencement of the works after the contractor takes possession of the site :- 5 Working days.

Completion in Sections are required : NO

Clause 42.2.7

Intended date of practical completion and the penalty per calendar day for the works as a whole :-

To be advised.

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Penalty amount will be R 2000.00 per Calendar day to a maximum of 10% of Contract Value.

Clause 42.2.8

Intended dates of practical completion and the penalties per calendar day for the works in sections :

N/A

Clause 42.2.9

The law applicable to this agreement shall be that of - Republic of South Africa.

INSURANCES (Clause 42.3)

Clause 42.3.1

Contract works insurance to be effected by Contractor for the sum of: Contract Sum plus 10%

With a deductible of : 5% of insured amount

Clause 42.3.2

Supplementary insurance is required : Yes

SASRIA insurance required to be effected by the Contractor for the amount of: Contract Sum plus 20% (with a deductible to be determined by the Insurance company issuing the policy).

Clause 42.3.3

Public liability insurance to be effected by Contractor

For the amount of: R 5million

With a deductible of: 5% of insured amount

DOCUMENTS (Clause 42.4)

Clause 42.4.1

Waiver of the contractor's lien is required :- YES

Clause 42.4.2

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Number of construction document copies to be supplied to the Contractor free of charge :- 1

Clause 42.4.3

Bills of Quantities drawn up in accordance with :-

Standard System of Measuring Building Work - Seventh Edition including all amendments

Clause 42.4.4

Number of days for submission of priced documents : 5 working days from the Letter of Appointment.

Clause 42.4.5

JBCC Engineering General Conditions are to be included in the documents :- No

Clause 42.4.6

The contract value is to be adjusted using CPAP:- NO

SECTION B: PRELIMINARIES

DEFINITIONS AND INTERPRETATION (B1)

Definitions and Interpretation (B1)

41 F: V: T:

Item

DOCUMENTS (B2)

Checking of documents (B2.1)

Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc.

42 F: V: T:

Item

Provisional Bills of Quantities (B2.2) YES

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	Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, Provisional Quantities, etc., or loss of profit related thereto.			
43	F: V: T: Availability of construction documentation (B2.3)	Item		
44	F: V: T: Interests of Agents (B2.4)	Item		
45	F: V: T: Priced documents (B2.5)	Item		
46	F: V: T: Tender submission (B2.6) Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.	Item		
47	F: V: T: <u>THE SITE (B3)</u> Defined works area (B3.1) The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site. Workmen employed on the site are to be restricted to the immediate area of the site and access thereto. The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.	Item		
48	F: V: T:	Item		
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	Plant and equipment (B6.4)			
69	F: V: T: Main notice board (B6.5) One notice board shall be provided by the Contractor	Item		
70	F: V: T: Subcontractors notice board (B6.6) (N/A)	Item		
71	F: V: T: <u>TEMPORARY SERVICES (B7)</u> Location (B7.1)			
72	F: V: T: Water (B7.2) The contractor shall provide water for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item		
73	F: V: T: Electricity (B7.3) The contractor shall provide electricity for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item		
74	F: V: T: Telecommunication equipment (B7.4) The contractor shall provide telephones on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).	Item		
75	F: V: T:	Item		
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	Ablution facilities (B7.5)			
	The contractor shall provide toilet facilities on site for the works in accordance with:			
	Alternative A (i.e. to be provided for by the Contractor).			
76	F: V: T:	Item		
	<u>PRIME COST AMOUNTS (B8)</u>			
	Responsibility for prime cost amounts (B8.1)			
77	F: V: T:	Item		
	<u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u>			
	General Attendance (B9.1)			
78	F: V: T:	Item		
	Special Attendance (B9.2)			
79	F: V: T:	Item		
	Commissioning - fuel, water and power (B9.3)			
80	F: V: T:	Item		
	<u>FINANCIAL ASPECTS (B10)</u>			
	Statutory taxes, duties and levies (B10.1)			
	Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT).			
81	F: V: T:	Item		
	Payment of Preliminaries (B10.2)			
82	F: V: T:	Item		
	Adjustment of Preliminaries (B10.3)			
83	F: V: T:	Item		
	Payment certificate cash flow (B10.4)			
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84	F: V: T: Contractor information supply (B10.5)	Item		
85	F: V: T: <u>GENERAL (B11)</u> Protection of the Works (B11.1)	Item		
86	F: V: T: Protection/isolation of existing/sectionally occupied works (B11.2)	Item		
87	F: V: T: Site security (B11.3)	Item		
88	F: V: T: Notice before covering work (B11.4)	Item		
89	F: V: T: Disturbance (B11.5)	Item		
90	F: V: T: Works cleaning and clearing (B11.6)	Item		
91	F: V: T: Vermin (B11.7)	Item		
92	F: V: T: Overhand work (B11.8)	Item		
93	F: V: T:	Item		
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SECTION C: SPECIFIC PRELIMINARIES

Section C: Specific Preliminaries:

C1. Proprietary branded products

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

94 F: V: T:

Item

C2. Trade Names, etc.

All materials, fittings, finishings, etc., specified hereinafter under a trade name, catalogue number or reference, must be exactly as described. The Architect's approval in writing must be obtained for the use of any alternative to the specification before the submission of tenders otherwise the specified materials, fittings, finishings, etc., will be assumed to have been allowed for in the tender.

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

95 F: V: T:

Item

C3. Contractors responsibility

The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The Contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved.

96 F: V: T:

Item

C4. Overtime

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	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 the execution thereof, that costs for such overtime are to be borne by the employer.			
97	F: V: T: C5. As built drawings The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records. Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.	Item		
98	F: V: T: C6. Construction Instructions Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books: a) Construction Instruction Book: Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book. Only instructions issued in such book shall be recognised. b) Daily Record Book:	Item		
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	The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.			
99	F: V: T: C7. Labour record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day.	Item		
100	F: V: T: C8. Plant record 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, currently used on the works.	Item		
101	F: V: T: C9. Encroachment During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor.	Item		
102	F: V: T: C10. Method Statement	Item		
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	The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.			
103	F: V: T: C11. Unauthorised Persons/Workmen on Premises The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect. No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.	Item		
104	F: V: T: C12. Mode of Procedure Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited. Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost.	Item		
105	F: V: T:	Item		
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	C13. Location of Temporary Buildings and Temporary Services The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period. There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.			
106	F: V: T: <u>C14. Office accommodation</u> The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]	Item		
107	F: V: T: <u>C15. Storage Facilities</u>	Item		
108	The Contractor shall provide a Container for storage of materials.	Item		
109	F: V: T: C16. Removal and Making Good of Temporary Works, etc, on Completion The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.	Item		
110	F: V: T:	Item		
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111	SUB - TOTAL: FIXED ITEMS	Item		
112	SUB - TOTAL: VALUE - RELATED ITEMS	Item		
113	SUB - TOTAL: TIME - RELATED ITEMS	Item		
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Section 1

Bill No. 1

Preliminaries

**ECDOE DISASTER PROGRAMME:
DUMEZWENI JUNIOR SECONDARY SCHOOL**

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<u>SECTION 2</u>			
<u>BILL No. 1</u>			
<u>DEMOLITIONS</u>			
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>View site</u>			
Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained			
<u>Explosives</u>			
No explosives whatsoever may be used for demolition purposes unless otherwise stated.			
<u>General</u>			
Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent.			
Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site.			
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Section 2 Bill No. 1 Demolitions			

Removal of asbestos material

All preparatory work, alterations, etc., to existing asbestos cement roof sheeting, gutters, rainwater pipes, etc., is to be carried out strictly by an approved and certified specialist company and in accordance with statutory requirements (Occupational Health and Safety Act, 1993 - Asbestos Regulations 2001) and all necessary precautions must be taken when working with and disposing of asbestos cement products and the disposal of waste water resulting from cleaning operations, etc.

The following shall apply in respect of asbestos removal

The removal of asbestos shall be carried out by a certified entity, registered in accordance with the Occupational Health and Safety Act, 1993 and the Asbestos Regulations 2001

Asbestos in all forms/building elements that is to be removed, shall be carried out in strict accordance with aforementioned regulation and a certificate issued by the entity as contemplated in the above, shall be provided per block for the removal thereof, where the term block shall in this context refer to any single, free standing building structure, regardless of size or purpose

Corresponding disposal certificates shall be issued by the facility at which the asbestos is disposed off, with said facility to, prior to the disposal of any asbestos material provide satisfactory proof that the facility is duly registered and fully compliant in terms of the act, to receive the asbestos material

Under no circumstances is the Contractor nor any of his duly authorised representatives to sell and/or give away asbestos material to any member/s of the school community, the community in general or the public at large. Should this be found to be occurring, the Contractor will be held responsible contractually and may further be prosecuted criminally

The cost for complying with the above, and all requirements of regulation as reflected above is to be priced for in terms for removal of asbestos material. No further claims in this regard will therefore be entertained

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Section 2
Bill No. 1
Demolitions

DEMOLISHING AND REMOVING

1	Demolish existing Single storey building comprising of blockwork under corrugated metal roof sheeting, size 230m2 and grub up foundations and remove from site and fill hole with clean earth well watered and compacted in 150mm layers. (3 x Classrooms Block)	m2	230		
2	Demolish existing Prefabricated Classroom, size 240m2 and remove from site. (4 x Prefabricated classroom)	m2	240		
3	Cart away rubble from demolitions and dispose off site.		Item		

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Section 2
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Demolitions

Section 2

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Demolitions

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Section 2
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Demolitions

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<u>SECTION 3</u>			
<u>BILL No. 1</u>			
<u>ALTERATIONS.</u>			
<u>Quantity Split:</u>			
Note that the total quantity per each item is split into the various buildings and appears below each description as follows:			
1A - 6 x Classrooms			
1C - Administration			
1D - SNP Kitchen			
1E - 5 x Classrooms			
1F - General			
<u>Note:</u>			
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>View site</u>			
Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained			
<u>Explosives</u>			
No explosives whatsoever may be used for demolition purposes unless otherwise stated.			
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Section 3			
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Alterations			

General

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

Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site.

Removal of asbestos material

All preparatory work, alterations, etc., to existing asbestos cement roof sheeting, gutters, rainwater pipes, etc., is to be carried out strictly by an approved and certified specialist company and in accordance with statutory requirements (Occupational Health and Safety Act, 1993 - Asbestos Regulations 2001) and all necessary precautions must be taken when working with and disposing of asbestos cement products and the disposal of waste water resulting from cleaning operations, etc.

The following shall apply in respect of asbestos removal

The removal of asbestos shall be carried out by a certified entity, registered in accordance with the Occupational Health and Safety Act, 1993 and the Asbestos Regulations 2001

Asbestos in all forms/building elements that is to be removed, shall be carried out in strict accordance with aforementioned regulation and a certificate issued by the entity as contemplated in the above, shall be provided per block for the removal thereof, where the term block shall in this context refer to any single, free standing building structure, regardless of size or purpose

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Alterations

Corresponding disposal certificates shall be issued by the facility at which the asbestos is disposed off, with said facility to, prior to the disposal of any asbestos material provide satisfactory proof that the facility is duly registered and fully compliant in terms of the act, to receive the asbestos material

Under no circumstances is the Contractor nor any of his duly authorised representatives to sell and/or give away asbestos material to any member/s of the school community, the community in general or the public at large. Should this be found to be occurring, the Contractor will be held responsible contractually and may further be prosecuted criminally

The cost for complying with the above, and all requirements of regulation as reflected above is to be priced for in terms for removal of asbestos material. No further claims in this regard will therefore be entertained

TEMPORARY BARRIERS, SCREENS, ETC

Temporary barriers, screens, etc including removal

1	SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc	m	120
2	Extra over mesh fence for double leaf gate size 5.5 x 1,8m high.	No	1

REMOVAL OF EXISTING WORK

Taking down and removing roofs, floors, panelling, ceilings, partitions, etc completely

3	Corrugated metal roof sheeting including timber roof trusses, purlins, underlay etc.	m2	302
4	Gypsum plasterboard ceilings including cornices, timber bandering, etc	m2	192
5	Barge boards and fixings	m	24
6	Fascia boards and fixings	m	50
7	Rainwater gutters and fixings	m	50

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8	Rainwater downpipes and fixings	m	12		
	<u>Taking out and removing ironmongery</u>				
9	Damaged chalk board.	No	3		
	<u>Break down and remove blockwork etc</u>				
10	M 140 Blockwork	m2	51		
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc. from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u>				
11	Plaster from walls in patches	m2	480		
12	Average 30mm Screed from floors.	m2	192		
	<u>Timber doors and frames</u>				
13	Take out from one brick wall and cart away steel single size 813mm wide x 1800mm high including preparing reveals to receive new frame (elsewhere).	No	3		
	<u>PREPARATORY WORKS, ETC.</u>				
	<u>Prepare existing surfaces for new finish</u>				
14	Clean down, etc. existing emulsion painted internal plastered walls, prepare by removing all loose and flaking paint, dirt, grease and grime to receive new enamel paint finish	m2	288		
15	Clean down, etc. existing emulsion painted external plastered walls, prepare by removing all loose and flaking paint, dirt, grease and grime to receive new enamel paint finish	m2	192		
	<u>Taking out and removing glass and mirrors, etc</u>				
16	Glass from steel windows including cleaning out rebates and preparing for new glass (new glass elsewhere)	m2	25		
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SERVICE

Steel Windows

- 17 Service window by means of changing windows stays, handles etc. including lubricating all ironmongery and leave in good workable condition.

No

21

STRUCTURAL REPAIRS

Repairs to structural cracks, etc

- 18 Rake out existing minor structural crack in blockwork, remove all debris/loose material including four times shot fixing 32 x 1,6mm thick strap x 500mm long at 500mm centres and plaster over (plaster measured elsewhere).

m

192

- 19 Rake out existing major structural crack in blockwork, remove all debris/loose material including embedding steel rods, cutting or drilling slots (60mm deep) in brickwork at 250mm centres to embed 8mm mild steel bars fixed between mortar joints with injected epoxy resin

m

63

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<u>SECTION 3</u> <u>BILL No. 2 : CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>MODEL PREAMBLES</u> The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions:</u> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent. <u>Cost of tests:</u> The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately). <u>Formwork:</u> Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.			
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Section 3 Bill No. 2 Concrete, Formwork and Reinforcement			

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

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

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

**UNREINFORCED CONCRETE CAST AGAINST
EXCAVATED SURFACES**

15Mpa/19mm Concrete

1	Surface blinding under footings and bases.	m3	31	
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REINFORCED CONCRETE

25MPa/19mm concrete:

2	Surface beds on waterproofing.	m3	64	
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3	Thickening.	m3	45	
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TEST BLOCKS

Test blocks:

4	Making and testing set of three 150x150x150mm concrete strength test cubes (Provisional).	No	11	
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Concrete, Formwork and Reinforcement

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FINISHING TOP SURFACE OF CONCRETE

Finishing top surfaces of concrete with a wood float:

5	Surface beds, slabs, etc	m2	427		
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ROUGH FORMWORK (DEGREE OF ACCURACY III)

Smooth Formwork to Sides:

6	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	224		
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MOVEMENT JOINTS ETC

Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:

7	12mm Joints not exceeding 300mm high (Provisional).	m	24		
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Saw cut joints:

8	6 x 40mm Saw cut joints in top of concrete.	m	227		
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REINFORCEMENT (PROVISIONAL)

Fabric reinforcement:

9	REF. 193 fabric reinforcement in concrete surface beds, slabs, footings, etc.	m2	427		
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Concrete, Formwork and Reinforcement

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<u>SECTION 3</u> <u>BILL No. 3</u> <u>MASONRY</u> <u>Note:</u> For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). <u>SUPPLEMENTARY PREAMBLES</u> <u>BRICKWORK</u> <u>Sizes in descriptions</u> Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick <u>Hollow walls etc</u> Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole. Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixeal" bitumen emulsion waterproofing coating. <u>Face bricks</u> Bricks shall be ordered timeously to obtain uniformity in size and colour <u>Pointing</u> Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
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Section 3 Bill No. 3 Masonry			

Samples

Samples of all masonry building units, except those of walls described as "loadbearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "loadbearing" shall consist of 30 units from every 30 000 units delivered to site

Trade names

Where trade names are specified it will read "or equal approved"

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Section 3
Bill No. 3
Masonry

SUPERSTRUCTURE

3,5MPa Cement blocks in class II mortar

1	M140 block wall in beamfilling	m2	29
2	M140 block walls	m2	51

BRICKWORK SUNDRIES

Galvanized brickwork reinforcement

3	75mm Wide reinforcement built in horizontally	m	384
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15MPa Mass concrete

4	Infill to single row of M140 U block blockwork	m	64
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<u>SECTION 3</u>				
<u>BILL No. 4 : WATERPROOFING</u>				
<u>MODEL PREAMBLES</u>				
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary products in descriptions:</u>				
<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
<u>One layer of 250 micron 'USB GREEN' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':</u>				
1	Under surface beds.	m2	427	
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Section 3				
Bill No. 4				
Waterproofing				

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<u>SECTION 3</u>			
<u>BILL No. 5</u>			
<u>ROOF COVERINGS</u>			
<u>Note:</u> For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Flashings</u>			
Flashings shall be approved by roof sheeting manufacturer and fixed to the sheeting with S10 clips to obviate any direct fixing perforations. Prior to flashings being fixed, all troughs at the apex shall be stop-ended to the full depth of the sheet in order to prevent any penetration of wind driven water. The trough shall be lipped at the eaves end to form a drip. Flashing flanges shall be notched to the sheet profile where necessary. All these operations must be performed with special tools available from the manufacturer. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surface in order to prevent steel splatter from penetrating colour coated areas. The flashings shall be supplied with a paint finish consisting of a full top coat silicon modified polyester Colour : White to one side			
<u>Quality Assurance</u>			
The manufacturer shall be assessed and certified as complying with ISO 9001: 2008 Quality Management System			
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Section 3 Bill No. 5 Roof Coverings Etc.			

Guarantee

Z200 Galvanized Metal or equal approved sheeting shall be laid in strict accordance with manufacturer's specifications by an approved contractor. The employer shall be provided with a ten year written guarantee on materials by the manufacturer.

Safety

The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity

Handling and Storage

The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction

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Roof Coverings Etc.

Inspection Prior to Installation or Erection

Before commencing with installation, the contractor shall verify that the following items have been checked and accepted:

- a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted
- b. Purlins and sheeting rails are at the correct spacing and are within the specified tolerances
- c. The corners of the roof are square and the wall framework is perpendicular or as specified
- d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework
- e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square
- f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or so dealt with that direct contact with the sheeting is avoided
- g. The contact faces between the purlins or the girts and the cladding are in the same plane. Should the alignment be inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding

Protrusion through Sheeted Surfaces

Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugation

Cleaning of Roofs, etc

All debris, etc arising from the fixing of the cladding shall be removed from the sheetin as the fixing progresses. In addition, off-cuts of insulation, surplus fastners and sealants, mandrels from pop rivets, off-cuts of flashings and sheeting, surplus flashing, food packaging, cartons, bottles, cans, etc shall not be left on the roof or in the gutters. Care shall be taken to ensure that no such material enters, blocks or partially impedes the flow of water into the outlets, downpipes, etc

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Section 3
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Roof Coverings Etc.

ROOF COVERINGS

PROFILED METAL SHEETING AND ACCESSORIES

0,58mm Thick Z200 "IBR Profile" galvanised metal roof sheeting, in single sheet lengths, with "Chromadek" finish to external face and standard backing coat to internal face :

1	Roof sheeting laid to pitch not exceeding 25 degrees	m2	302		
	<u>0,58mm Flashings pre-painted to match roof sheeting and fixed in strict accordance with manufacturer's instructions:</u>				
2	Ridge capping 550mm girth, screwed through sheet to purlins	m	25		
3	Standard narrow and broad flute closers.	m	50		

ROOF AND WALL INSULATION

"Sisalation Grade FR430" or equal approved heavy industrial insulation

4	Insulation laid taut over roof trusses (at approximately 1 100mm centres) and fixed concurrent with SA Pine purlins at 900mm centres, etc including galvanised steel straining wires	m2	302		
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Roof Coverings Etc.

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Bill No. 5

Roof Coverings Etc.

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<u>SECTION 3</u>			
<u>BILL No. 6</u>			
<u>CARPENTRY & JOINERY</u>			
<u>Note:</u>			
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>FIXING</u>			
All nailing of timber roof rafters, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used.			
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Section 3 Bill No. 6 Carpentry and Joinery			

CARPENTRY

Sawn softwood:

1	Design, supply and install roof truss system complete in accordance with the Standard Building Regulations to suit roof area approximate size 303m ² (measured on flat floor area inclusive of overhangs, etc) - 3 x CLASSROOMS BLOCK		Item
2	38 x 114mm Wall plate.	m	50
3	76 x 114mm Beam	m	25
4	50 x 76mm Purlins.	m	350
5	50 x 76mm Bracing.	m	120

Sundries:

6	TRI FIX or equal approved hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional).	No	462
7	Prior to the erection of all the roof trusses the consulting engineer shall certify that he has received such working drawings and construction detail designs from the professional engineer employed by the contractor and that he has considered same and given permission to proceed with the fabrication of the trusses (TR1 certificate issued by Contractor's Engineer) and then before the roof covering commences the completed structure shall be inspected and certified as stable by the professional engineer employed by the contractor to ensure that the manufacture of the trusses and erection details have been complied with to his satisfaction (TR2 certificate issued by Contractor's Engineer).		Item

EAVES, VERGES, ETC

"Everite Nutec" or equal approved fibre cement

8	12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc.	m	50
9	85 x 275 x 6mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes, etc.	m	24

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Section 3
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Carpentry and Joinery

DOORS ETC

SANS Approved meranti:

10	44mm Framed, ledged, and battened single door with flush ply panel internally size 813 x 2032mm high comprising 44 x 110mm top rail and stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D1).	No	3		
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SKIRTINGS

SANS Approved Meranti:

11	75mm high x 19mm Meranti Skirting fixed to walls including 19mm quadrant bead planted on.	m	96		
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Carpentry and Joinery

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Carpentry and Joinery

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<u>SECTION 3</u>				
<u>BILL No. 7</u>				
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>				
Note:				
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary products in descriptions:</u>				
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.				
<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.				
<u>NAILED UP CEILINGS</u>				
<u>4mm Thick fibre-cement boards with and including 6 x 32mm wrought meranti cover strips over joints:</u>				
1	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres with cross brandering at joints, ends of sheets and at light fittings, etc.	m2	192	
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Section 3 Bill No. 7 Ceilings, Partitions and Access Flooring				

2	Extra over 4mm thick fibre cement board ceiling for forming trap door, size 630 x 630mm in clear, formed with 38 x 50mm sawn S.A. pine framing covered with ceiling boarding and set in 38 x 76mm wrought S.A. pine rebated kerb, including all necessary additional supports, trimmers, etc.	No	3
	<u>Cornice</u>		
3	75mm gypsum coved cornice.	m	96
	<u>100mm thick non-combustible light weight ceiling insulation 12kg/m³ closely fitted with ends butted firmly between tie beams and laid loose on top of brandering between roof timbers, all in accordance with manufacturer's recommendations.</u> <u>• R-value: 2,50m² K/W</u> <u>• Thermal conductivity: 0,04 W/m²/K</u>		
4	100mm Insulation laid between roof trusses and on top of brandering, etc.	m ²	192
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Section 3 Bill No. 7 Ceilings, Partitions and Access Flooring			

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Bill No. 7
Ceilings, Partitions and Access Flooring

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Ceilings, Partitions and Access Flooring

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<u>SECTION 3</u>			
<u>BILL No. 8</u>			
<u>FLOOR COVERINGS, WALL LININGS, ETC</u>			
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Proprietary products in descriptions:</u>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.			
<u>Cleaning:</u>			
Rates for floor covering shall include for proper cleaning on completion.			
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Section 3 Bill No. 8 Floor Coverings, Wall Linings, Etc.			

VINYL FLOOR COVERINGS

3mm thick x 300mm x 300mm wide Floorflex semi-flexible vinyl floor tiles laid in Marley No.60 Plus acrylic adhesive, or equal approved, spread with trowel having 1.5mm x 1.5mm x 1.5mm triangular notches at 4.00mm centres as per Architectural and Manufacturers specifications:

1	On floors	m2	192
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POLISH, SEALERS, ETC

Scrub with a diluted neutral detergent complying with SABS 825 and thoroughly rinse, Apply three coats of a water based floor dressing complying to SABS 1042 on:

2	Vinyl tile flooring	m2	192
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Floor Coverings, Wall Linings, Etc.

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Floor Coverings, Wall Linings, Etc.

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	<u>SECTION 3</u>			
	<u>BILL No. 9</u>			
	<u>IRONMONGERY</u>			
	<u>Note:</u>			
	For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Keys/Locks</u>			
	Each lock is to be distinctly numbered with consecutive numbers and each key is to be stamped with the corresponding number to the lock that it controls. All locks are to have two keys			
	<u>Trade Names</u>			
	Where trade names are specified other ironmongery approved by the Principal Agent may be used			
	<u>Fixing</u>			
	Fixing of ironmongery is deemed to be fixed to timber unless otherwise described			
	<u>HINGES:</u>			
1	75 x 100mm Brass Medium duty ball bearing HMP butt hinges.	Pairs	3.0	
	<u>LOCKS</u>			
2	"UNION 2277-78SS" or equal approved three lever sash mortice lockset.	No	3	
	<u>Sundries:</u>			
3	38mm Diameter black rubber door stop plugged and screwed to walls and floors.	No	3	
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	Bill No. 9			
	Ironmongery			

**PINNING BOARDS, WRITING BOARDS,
PROJECTION SCREENS, ETC**

- 4 4800 x 1200mm Magnetic white board or equal approved fixed to walls with an approved Aluminium frame, plugged and screwed to walls with counter sunk brass screws and cupped washers.
- 5 Pinning board 4800 x 1200mm High overall of 9mm "Van Dyk" or equal approved pinning board glued to 3mm masonite back plugged and screwed to wall and framed with 70 x 22mm rebated wrought Saligna frame with one vertical middle rail.

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Ironmongery

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Ironmongery

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Item No	Quantity	Rate	Amount
<u>SECTION 3</u>			
<u>BILL No. 10</u>			
<u>PLASTERING</u>			
Note:			
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
<u>SCREEDS</u>			
<u>1:3 Cement and sand screeds steel trowelled on concrete:</u>			
1	30mm Thick on floors. m2	192	
<u>PLASTERED SURFACES</u>			
<u>Cement plaster on brickwork:</u>			
2	On walls. m2	480	
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Bill No. 10			
Plastering			

Item No	Quantity	Rate	Amount
<u>SECTION 3</u>			
<u>BILL No. 11</u>			
<u>PLUMBING AND DRAINAGE</u>			
<u>(PROVISIONAL)</u>			
<u>Note:</u>			
For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
<u>RAINWATER DISPOSAL:</u>			
<u>Watertite or equal approved Aluminium Gutters and Downpipes:</u>			
1	125 x 85 x 0.6mm Ogee domestic gutters including gutter brackets at 600mm centres.	m	50
2	Extra over eaves gutter for stopped end.	No	4
3	Extra over eaves gutter for outlet for 100 x 75mm aluminium downpipe.	No	4
4	100 x 75 x 0.6mm rectangular fluted downpipes fixed to wall with and including proprietary holderbats to 5000L rainwater tanks (elsewhere measured).	m	12
5	Extra over rainwater downpipe for bends.	No	4
Carried Forward to Summary of Section No. 3			R
Section 3			
Bill No. 11			
Plumbing and Drainage (Provisional)			

Item No	Quantity	Rate	Amount
<u>SECTION 3</u>			
<u>BILL No. 12</u>			
<u>GLAZING</u>			
<u>Note:</u> For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Proprietary products in descriptions:</u> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.			
<u>GLAZING TO STEEL WITH PUTTY</u>			
All glazing shall be in accordance with SABS 0400 - 1990, SABS 1263 - 1. All safety glazing materials (individual panes) shall be permanently marked. Such marking shall be visible after glazing process. If it is not marked, it is not safety glass.			
<u>6.38mm clear safety glass secured into galvanized window with a compatible UV resistant sealant</u>			
1	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2	25
2	Issue of Glazing Certificate.	Item	
Carried Forward to Summary of Section No. 3 Section 3 Bill No. 12 Glazing			R

Item No	Quantity	Rate	Amount
<u>SECTION 3</u>			
<u>BILL No. 13</u>			
<u>PAINTWORK</u>			
<u>Note:</u> For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Trade Names</u>			
Where trade names are specified it will read "or equal approved"			
Carried to Collection			R
Section 3 Bill No. 13 Paintwork			

PAINTWORK TO NEW WORK

ON WOOD

Stop, sand down and prepare wood surfaces and apply one coat wood primer, one undercoat and two coats eggshell enamel paint as per Plascon or equal approved:

1	On doors	m2	10
2	On door frames	m2	3

Two coats superior quality clear gloss varnish on smooth sanded down surfaces:

3	On doors	m2	10
4	On door frames	m2	3

Prepare and apply two coats carbolenium on:

5	On exposed timbers.	m2	26
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Prepare and brush surface to remove all loose contaminants and apply one coat of sanding sealer rubbed to a smooth finish followed by two coats "Wooddock" clear matt varnish or equal approved

6	Skirtings not exceeding 300mm girth	m	96
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ON FIBRE-CEMENT BOARD SURFACES

Apply one coat DULUX Trade alkali resistant plaster prime followed by two coats of DULUX trade 100 low sheen or equal approved coats of finishing paint or equal approved. All joints to be taped, skimmed and rubbed to a smooth finish. Colour to Architects Approval.

7	Ceilings and cornices.	m2	192
8	On fascias and barge boards.	m2	34

Carried to Collection

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Section 3
Bill No. 13
Paintwork

PAINTWORK TO PREVIOUSLY PAINTED WORK

ON METAL SURFACE

Sand down existing surfaces and apply spot primer defects in pre-primed surfaces with zinc chromate primer UC 53, one universal undercoat and two coats Velvagro or equal and approved enamel paint

9	Steel windows with burglar bars (both sides measured).	m2	25
10	Steel posts.	m2	16

ON FLOATED PLASTER

Apply one coat DULUX Trade alkali resistant plaster prime followed by two coats of DULUX trade 100 low sheen or equal approved. Colour to Architect's Approval.

11	On internal walls	m2	288
12	On external walls	m2	192

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Paintwork

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Section 3

Bill No. 13

Paintwork

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Waterproofing

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Carpentry and Joinery

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Ceilings, Partitions and Access Flooring

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Floor Coverings, Wall Linings, Etc.

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Section 3

Item No		Quantity	Rate	Amount
	<u>SECTION No. 4</u>			
	<u>BILL No. 1</u>			
	<u>EXTERNAL WORKS (PROVISIONAL)</u>			
	<u>MODEL PREAMBLES</u>			
	The tenderer is referred to the "General Preambles for Trades 2017" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.			
	<u>THE FOLLOWING IN PLATFORMS, ETC.</u>			
	<u>Site Clearance, ETC</u>			
1	Allow for clearing the area of the site to be built upon of all grass, weeds, shrubs, trees with trunks not exceeding 200mm girth, debris, etc., including grubbing up all roots, scoffling up as required and cart away all vegetation and debris.	m2	427	
2	Stripping average 200mm thick layer of topsoil and stockpiling on site.	m2	427	
	<u>Open face excavation not exceeding 2m deep:</u>			
3	Excavate to cut in open face, not exceeding 2m deep to reduce levels and grade to fill and compact to 93% mod AASHTO density at optimum moisture content.	m3	214	
	<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	385	
	<u>Earth filling from excavated material</u>			
5	Dig, load and remove filling selected from spoil heaps on site and deposit as filling in platforms including spreading and compacting to cambers and falls in layers not exceeding 150 mm thick to a minimum of 95% Modified AASHTO dry density.	m3	64	
	Carried to Collection			
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	Bill No. 1			
	External Works			
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	<u>Prescribed density tests on filling:</u>				
14	In-situ dry density test.	No	7		
	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>				
15	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	120		
	<u>Concrete Paving Blocks</u>				
	<u>Paving of 50mm thick 200x100mm 25MPa Bevel Bond paver blocks grey in colour in herringbone pattern on and including 20mm thick sand bed with dry filler sand swept and vibrated into joints all laid on subgrade (elsewhere measured) conforming to SABS 1200D degree of accuracy I:</u>				
16	Paving to walkway areas, etc laid to falls.	m2	120		
	<u>Kerbing</u>				
	<u>Precast or in situ mass concrete (25 MPa - 19 mm stone) kerbs cast in convenient lengths with exposed faces finished smooth from the mould and all salient angles rounded, jointed and pointed in 1:3 cement mortar, including excavations, formwork, etc.</u>				
17	Figure 8B (300 x 275 x 175mm) semi mountable kerb laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course.	m	160		
18	Ditto but circular on plan.	m	10		
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**THE FOLLOWING IN STORMWATER
DRAINAGE, APRONS ETC.**

STORMWATER CHANNELS

Excavation not exceeding 2m deep

19	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	60
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>		
20	Off site to a dumping site to be found by the Contractor.	m3	60
	<u>Filling supplied by the contractor under channels</u>		
21	G7 Base course material compacted to 98% Mod AASHTO density	m3	30
22	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	30
	<u>Cast in-situ Ref 395 mesh reinforced concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 2m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.</u>		
23	700 x 80mm thick V' channel 150mm deep in centre laid in position in ground not exceeding 2000mm sections including all formwork, reinforcement, expansion joints, smooth finishing to top of concrete surface etc.	m	288
24	Extra for 700mm angle	No	32
25	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.	No	16

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Section 4
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External Works

THE FOLLOWING IN RAINWATER TANKS AND STANDS

Excavation in earth not exceeding 2m deep:

26	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	8		
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Extra over all excavations for carting away:

27	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	20		
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Filling supplied by the contractor under strip footing, floors etc.

28	G7 Base course material compacted to 98% Mod AASHTO density	m3	4		
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29	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	4		
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Compaction of surfaces

30	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 90% Mod AASHTO density.	m2	24		
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25 MPa/19mm Concrete:

31	Plinth.	m3	5		
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Test blocks:

32	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
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Finishing top surfaces of concrete smooth with a steel trowel including adding additional cement while concrete is still green to attain a smooth, hard surface:

33	Surface beds, slabs, etc.	m2	24		
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External Works

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<u>SECTION 5</u>			
<u>BILL No. 1</u>			
<u>PROVISIONAL SUMS</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor.			
Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related thereto.			
<u>PRE-FABRICATED STRUCTURES</u>			
1	Provide the sum of R2 380 000.00 for the supply and installation of 7 x pre - fabricated classrooms size (60m2) including 1.5m wide veranda, by a nominated sub - contractor.	Item	2 380 000.00
2	Add: Profit on above	%	
3	Add: Attendance on above	%	
<u>ELECTRICAL INSTALLATION</u>			
4	Allow the Provisional sum of R 150 250.00 (One Hundred and Fifty Thousand Two Hundred and Fifty Rand) nett for Electrical Work to be executed by a specialist subcontractor including all wiring, commissioning, COC's etc.	Item	150 250.00
5	Add: Profit on above	%	
6	Add: Attendance on above	%	
Carried to Collection			R
Section 5 Bill No. 1 Provisional Sums			

COMMUNITY LIAISON OFFICER

7	Allow for the employment of a Community Liaison Officer by the Main Contractor, to be paid an allowance of R6 500.00 per month for duration of 6 Months..	Item		39 000.00
8	Add: Profit on above		%	
9	Add: Attendance on above		%	

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Provisional Sums

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Section 5

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Provisional Sums

**ECDOE DISASTER PROGRAMME:
DUMEZWENI JUNIOR SECONDARY SCHOOL**

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1	PRELIMINARIES	25	
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3	BUILDING WORKS	70	
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5	PROVISIONAL SUMS	80	
	SUB-TOTAL		R
	<u>CONTINGENCIES</u>		
	Allow five per cent (5%) of the above sub-total for contingencies to be used as directed and deducted in whole or in part if not required.		R
	SUB-TOTAL		R
	Add Value Added Tax at the rate of 15%		R
	Carried to Form of Offer and Acceptance		R