

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>SECTION 1 - PRELIMINARIES</u> <u>BILL NO 1</u> <u>PRELIMINARIES</u> <u>BUILDING AGREEMENT AND PRELIMINARIES</u> The JBCC Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described The JBCC Principal Building Agreement contract data form an integral part of this agreement The JBCC General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the JBCC Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these bills of quantities, amended as hereinafter described The contractor is deemed to have referred to the above mentioned documents for the full intent and meaning of each clause The clauses in the above mentioned documents are hereinafter referred to by clause number and heading only Where any item is not relevant to this agreement such item is marked N/A signifying "not applicable" Where standard clauses or alternatives are not entirely applicable to this agreement such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the above mentioned documents <u>PREAMBLES FOR TRADES</u> The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications				
Total Carried Forward					

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	<u>STRUCTURE OF THIS PRELIMINARIES BILL</u> Section A: A recital of the headings of the individual clauses in the aforementioned JBCC Principal Building Agreement Section B: A recital of the headings of the individual clauses in the aforementioned JBCC General Preliminaries Section C: Any special clauses to meet the particular circumstances of the project <u>PRICING OF PRELIMINARIES</u> Should the contractor select Option A in the contract data for the adjustment of preliminaries, the amounts entered against the relevant items in these preliminaries are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T) <u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u> Interpretation (A1-A7) 1 Clause 1.0 - Definitions and interpretation Pricing of bills of quantities 2 The contractor is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this agreement. Value Added Tax (VAT) is to be separately stated on the summary page of these bills of quantities Items left unpriced will be deemed to be covered in prices against other items throughout these bills of quantities and no claim for any extras arising out of the contractor's omission to price any item will be entertained 3 Prices for all construction equipment, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary				
Total Carried Forward					

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4	Abbreviated descriptions The items in these bills of quantities utilise abbreviated descriptions. It is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. However, should the full intent and meaning of any description not be clear, the contractor shall, before submission of his tender, call for a written directive from the Principal Agent, failing which it shall be assumed that the contractor has allowed in his pricing for materials and workmanship in terms of international best practice Legal status of contractor If the contractor constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then: 1. These persons are deemed to be jointly and severally liable to the employer for the performance of this agreement 2. These persons shall notify the employer of their leader who has assigned authority to bind the contractor and each of these persons 3. The contractor shall not alter its composition or legal status without the prior written consent of the employer F:..... V:.....T:.....	Item	1		
5	Clause 2.0 - Law, regulations and notices F:..... V:.....T:.....	Item	1		
6	Clause 3.0 - Offer and acceptance F:..... V:.....T:.....	Item	1		
7	Clause 4.0 - Cession and assignment F:..... V:.....T:.....	Item	1		
8	Clause 5.0 - Documents F:..... V:.....T:.....	Item	1		
9	Clause 6.0 - Employer's agents F:..... V:.....T:.....	Item	1		
10	Clause 7.0 - Design responsibility F:..... V:.....T:..... Insurances and securities (A8-A11)	Item	1		
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11	Clause 8.0 - Works risk F:..... V:.....T:.....	Item	1		
12	Clause 9.0 - Indemnities F:..... V:.....T:.....	Item	1		
13	Clause 10.0 - Insurances F:..... V:.....T:.....	Item	1		
14	Clause 11.0 - Securities Guarantee for payment The Employer shall not provide to the contractor with a guarantee for payment By virtue of the contractor submitting a tender offer, he is deemed to have waived his lien or right of continuing possession of the works [11.10] Sub-clause 11.10 has been amended to read as follows: "The contractor shall waive his lien or right of continuing possession of the works." Clause 11.0 has been amended to include the following new sub-clauses:Sub-clause 11.11 The guarantee provided by the contractor's Guarantor shall have an expiry date (if stated) no less than 3 months after the practical completion date and shall be extended accordingly should the practical completion date be extended. The cost for same shall be included on the contractor's tender price as no claims for additional cost shall be entertained Sub-clause 11.12 The contractor is required to provide the Employer with a variable construction guarantee with twenty-one (21) calendar days of acceptance of the contractor's tender Sub-clause 11.13 Extension of waiver of lien The contractor shall ensure that a waiver of lien is included in all subcontracts and that the works executed on the site are kept free of all liens and other encumbrances at all times F:..... V:.....T:.....	Item	1		
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15	Execution (A12 - A17) Clause 12.0 - Obligations of the parties Sub-clause 12.2.6 has been amended to include the following: The programme for the works must be prepared and issued in Microsoft Project Programming Software The contractor shall include a float of 15 working days within the contract period for project delays such as, but not limited to adverse weather conditions, etc., in the programme. Such provisions shall initially be included at the end of the contract period or proportionally allocate at the end of each section for contracts with sectional completion, and shall be monitored by the contractor and agreed with the Principal Agent as and when such delays takes place and shall be recorded in the programme based on actual stoppages when incurred. Revision of the date for Practical Completion shall only be considered once the 15 working days has been fully utilised Sub-clause 12.2.10 has been amended to include the following: The contractor shall be required to maintain, in addition to the approved programme, a comprehensive fortnightly bar-chart programme expanded to reflect anticipated daily activities for the ensuing fourteen (14) days Sub-clause 12.2.18 has been amended to include the following: Office accommodation 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] The contractor's site camp shall be equipped with Wi-Fi internet connection which shall be utilised by the contractor's staff, the client and members of professional team Notice board The contractor shall erect in a position approved by the principal agent, maintain and remove on practical completion a notice board recommended by the South African Institute of Architects and as approved by the Principal Agent listing the names and logos of the Employer, the contractor and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the principal agent for such notice boards to be erected [12.2.18] F:..... V:.....T:.....	Item	1		
16	Clause 13.0 - Setting out F:..... V:.....T:.....	Item	1		
17	Clause 14.0 - Nominated subcontractors F:..... V:.....T:.....	Item	1		
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18	Clause 15.0 - Selected subcontractors F:..... V:.....T:.....	Item	1		
19	Clause 16.0 - Direct contractors Attendance on direct contractors In respect of direct contractors the contractor shall: 1. Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials 2.Allow the use of personnel welfare facilities, where provided 3.Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation 4.Permit the direct contractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right, while it remains erected on the site [16.1] F:..... V:.....T:.....	Item	1		
20	Clause 17.0 - Contract instructions F:..... V:.....T:..... Completion (A18 - A24)	Item	1		
21	Clause 18.0 - Interim completion F:..... V:.....T:.....	Item	1		
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22	Clause 19.0 - Practical completion Practical CompletionIn respect of practical completion:1.1The following certificates of compliance, as applicable shall be required (excluding others that may be required by the local/national authority, etc.) from the contractor to achieve practical completion1.1 Certificates from the contractor that all aspects of the Construction Regulations of 2014 have been complied with1.2Certificates from the contractor that the National Building Regulations have been complied with1.3Certificates of compliance with respect to plumbing and drainage installations1.4Certificates of compliance with respect to electrical and electronic installations1.5Certificates of compliance with respect to all glazing1.6Certificates of compliance with respect to structural and civil engineering1.7Certificates of compliance with respect to roof installation1.8Certificates of compliance with respect to mechanical installation1.9Certificate of compliance and fire clearance certificate from the contractor and fire chief respectively1.10Any other compliance documentation deemed necessary as instructed by the Principal Agent1.11Three complete sets of approved maintenance and operating manuals together with all workmanship and material warranties and guarantees (to be compiled and issued to the Principal Agent prior to achievement of practical completion for approval) and three complete copies of documents in electronic format2.In order to achieve practical completion of the works and without deviating from the generality of the term practical completion, the contractor shall, as a minimum comply with the following basic criteria, as applicable. These criteria should not be regarded as comprehensive but as an expansion of the term practical completion 2.1Electrical installation is to be completed and fully commissioned permanent power and Clause 19.0 has been amended to include the following new sub-clauses: Sub-clause 19.2.3 The contractor shall within five (5) calendar days of receipt of the list for practical completion issue a program indicating dates for completion for all listed items Sub-clause 19.2.4 In the event that such inspection does not result in the work being accepted as Practically complete then the costs of such inspection and subsequent inspections shall be for the account of the contractor, at a rate of Ten Thousand Rand (R10 000.00) per man hour or part thereof, calculated by multiplying the total of the number of Employer's agents and Employer's staff present at each abortive practical completion inspection meeting, i.e. Where practical completion is not achieved, by the time taken for such an inspection until practical completion is achieved. In this regard, the Employer reserves the right to recover such costs in addition to any other remedies it may have in accordance with Clause 27 F:..... V:.....T:.....	Item	1		
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23	Clause 20.0 - Completion in sections				
24	F:..... V:.....T:.....	Item	1		
25	Clause 21.0 - Defects liability period and final completion				
26	Clause 21.0 has been amended to include the following new sub-clauses: Sub-clause 21.13 In the event that the certificate of Final Completion is not issued due to the contractor's work not being sufficiently complete then the costs of such inspection and subsequent inspections shall be for the account of the contractor, at a rate of Ten Thousand Rand (R10 000.00) per man hour or part thereof, calculated by multiplying the total of the number of Employer's agents and Employer's staff present at each abortive final completion inspection meeting, i.e. Where final completion is not achieved in terms of 21.6, by the time taken for such an inspection until final completion is achieved. In this regard, the Employer reserves the right to recover such costs in accordance with Clause 27				
27	Sub-clause 21.14 Notwithstanding [21.2], where the contractor fails to rectify/attend to outstanding works or defects on the list for completion, list for final completion or latent defects that appear before the issue of certificate of final completion and where the contractor remains in default, the Employer may engage others to carry out said outstanding works or defects and recover expense and/or loss incurred [27]				
28	F:..... V:.....T:..... Clause 22.0 - Latent defects liability period	Item	1		
29	F:..... V:.....T:..... Clause 23.0 - Revision of the date for practical completion Sub-clause 23.1 has been amended to include the following new sub-clause: Sub-clause 23.1.7 Delayed possession of site [12.1.5] Sub-clause 23.2 has been amended to omit the following sub-clause: Sub-clause 23.2.1 Delayed possession of the site [12.1.5] Clause 23.0 has been amended to include the following new sub-clauses: Sub-clause 23.9 Notwithstanding, sub-clause(s) 23.1 to 23.8 a revision to the practical completion date will only be considered for work on the critical path of the contractual programme or the revised contractual programme, as applicable Any revised programme, in order to be considered as a contractual programme, must be approved by the Principal Agent in writing, prior to it becoming effective	Item	1		
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30	Clause 24.0 - Penalty for late or non-completion F:..... V:.....T:..... Payment (A25 - A27)	Item	1		
31	Clause 25.0 - Payment Sub-clause 25.1 has been amended to include the following: The contractor shall submit the following information on a monthly basis to the Principal Agent and Quantity Surveyor in order to assist with the processing of the payment certificate and the preparation of the empowerment report: B7A detailed breakdown of the work done. (The work breakdown must be referenced strictly in accordance with the Tender Document or the detailed Priced Bills of Quantities, as applicable.) B7A detailed breakdown of all variation order costs claimed (With specific reference to work done by the Principal Building Contractor) in the certificate concerned, together with copies of the relevant contract instructions B7A detailed breakdown of the work done by each sub-contractor. (The work breakdown must be referenced strictly in accordance with the Tender Document or the detailed Priced Bills of Quantities, as applicable.) B7A detailed breakdown of all variation order costs claimed in the certificate concerned for sub-contract work, together with copies of the relevant contract instructions B7A written declaration authenticated by the contracts manager confirming, that the payment claims for work done by sub-contractors has been audited and amended by the contractor's quantity surveyor, prior to it being forwarded to the Principal Agent and Quantity Surveyor for evaluation B7f applicable, a combined empowerment report which shall include reports on contractor and sub-contractor compliance, in accordance with the format required by the empowerment manager. In this regard, the combined, contractor and sub-contractor empowerment report must contain an affidavit certifying that all information contained the report as being true and correct and must be authenticated by the contractor and a commissioner of oaths. The combined				
32					
33	Sub-clause 25.4 has been amended to include the following: Where the Employer agrees to pay for materials on/off site, the contractor shall be required to provide the Principal Agent with the necessary forms for cession of ownership for such materials, with the necessary delivery notes and invoices (where applicable) Sub-clause 25.10 has been amended as follows: Replace the words bfourteen (14) calendar daysb with bforty (40) calendar daysb F:..... V:.....T:.....	Item	1		
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34	Clause 26.0 - Adjustment of the contract value and final account				
35	Sub-clause 26.1 has been amended to include the following: Contract Instructions Instructions given by the Employer's agents in relation to the contract works, shall, irrespective of the format or wording of such instructions, not indicate that the work involved represents an extra or variation and shall not be deemed to be acceptance of any prices or quotations contained in any correspondence It is recorded that only the quantity surveyor where appointed by the employer for quantity surveying services is empowered, to rule whether any instructions issued constitutes an extra or not and, to resolve cost aspects of any matter pertaining to this contract				
	F:..... V:.....T:.....	Item	1		
36	Clause 27.0 - Recovery of expense and/or loss				
	F:..... V:.....T:.....	Item	1		
	Suspension and termination (A28 - A29)				
37	Clause 28.0 - Suspension by the contractor				
	F:..... V:.....T:.....	Item	1		
38	Clause 29.0 - Termination				
	F:..... V:.....T:.....	Item	1		
	Dispute resolution (A30)				
39	Clause 30.0 - Dispute resolution				
	F:..... V:.....T:.....	Item	1		
40	Agreement The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties				
	F:..... V:.....T:.....	Item	1		
41	Contract data				
	Tenderer's selections				
	Before submission of his Tender the contractor is to complete the Tenderer's selections in the contract data				
Total Carried Forward					

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	Previous work and adjoining properties (B3)				
48	Clause 3.1 - Previous work - dimensional accuracy F:..... V:.....T:.....	Item	1		
49	Clause 3.2 - Previous work - defects F:..... V:.....T:.....	Item	1		
50	Clause 3.3 - Inspection of adjoining properties F:..... V:.....T:.....	Item	1		
	The site (B4)				
51	Clause 4.1 - Handover of site in stages F:..... V:.....T:.....	Item	1		
52	Clause 4.2 - Enclosure of the works F:..... V:.....T:.....	Item	1		
53	Clause 4.3 - Geotechnical and other investigations F:..... V:.....T:.....	Item	1		
54	Clause 4.4 - Encroachments F:..... V:.....T:.....	Item	1		
55	Clause 4.5 - Existing premises occupied F:..... V:.....T:.....	Item	1		
56	Clause 4.6 - Services - known The contractor shall consult the Principal Agent before disconnecting any services. The contractor shall take special care not to damage any existing services that could have been foreseen or what have been shown to him by the Principal Agent. Damage to this services shall be for the contractor s account F:..... V:.....T:.....	Item	1		
	Management of contract (B5)				
57	Clause 5.1 - Management of the works F:..... V:.....T:.....	Item	1		
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58	Clause 5.2 - Progress meetings F:..... V:.....T:.....	Item	1		
59	Clause 5.3 - Technical meetings F:..... V:.....T:.....	Item	1		
60	Clause 5 has been amended to include the following new sub-clause: Sub-clause 5.4 - Daily records The contractor shall keep daily records of people and equipment employed as well as a site diary in respect of work performed on the site 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 sub-contractors on the works each day 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 F:..... V:.....T:.....	Item	1		
61	Samples, shop drawings and manufacturer's instructions (B6) Clause 6.1 - Samples of materials All material samples and colour samples must be submitted to the Principal Agent for selections and approval of the colour, shape and finish including mechanical, electrical and plumbing equipment that will be visible. The samples shall be provided in A4 size unless otherwise agreed. General samples shall be provided for Principal Agent/Employer to choose from each type of finish The Principal Agent/Employer may reject all or part of the submitted samples and request for additional selections if the first submission are not acceptable All samples must be kept in a sample room to be provided by the contractor for reference Sample Board: The contractor shall provide a board(s) of approved samples and make available one set at the site (sample room) and one for the Employer F:..... V:.....T:.....	Item	1		
62	Clause 6.2 - Workmanship samples Sub-clause 6.2 has been amended to include the following: The contractor shall provide a mock-up of all finished surfaces prior to commencement of the relevant work. The contractor shall only be permitted to commence with the relevant scope of work, on approval of the mock-up by the Principal Agent or its designated representative F:..... V:.....T:.....	Item	1		
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63	Clause 6.3 - Shop drawings				
64	Sub-clause 6.3 refers b the following is to be added after the words 'and/or approval' Shop drawings shall be submitted to the principal agents for approval at least ten (10) working days weeks prior to the date on which such approval is required in order to comply with the programme All submissions shall be prepared in accordance with the contract drawings and specifications and/or any Principal Agents instructions and any deviation shall be specifically highlighted in writing, with a detailed explanation of the reason for such deviation, together with any cost and/or time implications. Delays in approval of shop drawings due to non compliance with drawings, specifications and/or Principal Agentb s instruction shall not constitute grounds for any claims for delay, extension of time and the like The contractor shall be responsible for ensuring that all dimensions affecting shop drawings conform to the dimensions of built work Should the contractor, sub-contractor, supplier or manufacturer be of the opinion that corrections to shop drawings made by the Principal Agent, constitute a change to the scope of work, then he shall immediately advise the Principal Agent in writing of this, together with the cost and/or programme implications thereof, in order to obtain the Principal Agent's directive				
65	Sub-clause 6.3.1 has been amended as follows: Replace the words btwo (2) copiesb with bfour (4) copiesb under bullet point number 6 F:..... V:.....T:.....	Item	1		
66	Clause 6.4 - Compliance with manufacturer's instructions F:..... V:.....T:..... Deposits and fees (B7)	Item	1		
67	Clause 7.1 - Deposits and fees F:..... V:.....T:..... Temporary services (B8)	Item	1		
68	Clause 8.1 - Water F:..... V:.....T:.....	Item	1		
69	Clause 8.2 - Electricity F:..... V:.....T:.....	Item	1		
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70	Clause 8.3 - Ablution and welfare facilities F:..... V:.....T:.....	Item	1		
71	Clause 8.4 - Communication facilities F:..... V:.....T:..... Prime cost amounts (B9)	Item	1		
72	Clause 9.1 - Responsibility for prime cost amounts F:..... V:.....T:..... Attendance on subcontractors (B10)	Item	1		
73	Clause 10.1 - General attendance F:..... V:.....T:.....	Item	1		
74	Clause 10.2 - Special attendance Sub-clause 10.2 has been amended to include the following: The Tenderer shall examine all drawings and information pertaining to the works as a whole and shall provide all necessary special attendance resources required for the due and proper execution and completion of all sub-contract works F:..... V:.....T:..... General (B11)	Item	1		
75	Clause 11.1 - Protection of the works F:..... V:.....T:.....	Item	1		
76	Clause 11.2 - Protection/isolation of existing works and works occupied in sections F:..... V:.....T:.....	Item	1		
77	Clause 11.3 - Security of the works F:..... V:.....T:.....	Item	1		
78	Clause 11.4 - Notice before covering work F:..... V:.....T:.....	Item	1		
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79	Clause 11.5 - Disturbance F:..... V:.....T:.....	Item	1		
80	Clause 11.6 - Environmental disturbance F:..... V:.....T:..... Clause 11.7 - Works cleaning and clearing Disposal of Waste Material, etc. The contractor shall provide appropriate equipment (such as chutes, if required), etc., for the rapid removal of waste material, etc., at points as agreed with the Principal Agent in writing. In addition, the contractor is to provide for adequate waste skips for the disposal of such material to be located in positions as advised by the Principal Agent in writing The contractor shall ensue that there is a maximum of a twenty four (24) hour turn-around time for the removal of all full waste skips from site. The contractor further acknowledges that the Employer reserves the right to appoint others to remove waste material and waste skips from site, should the contractor fail to meet the twenty four (24) hour turn-around time and that such costs shall be deducted from amounts due to the contractor	Item	1		
81	F:..... V:.....T:.....	Item	1		
82	Clause 11.8 - Vermin F:..... V:.....T:.....	Item	1		
83	Clause 11.9 - Overhand work F:..... V:.....T:.....	Item	1		
84	Clause 11.10 - Tenant installations F:..... V:.....T:.....	Item	1		
85	Clause 11.11 - Advertising F:..... V:.....T:.....	Item	1		
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	<u>SECTION C: SPECIFIC PRELIMINARIES</u>				
86	Health and Safety Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. It is specifically stated that the employer shall prepare a documented health and safety specification for the works (annexed to these bills of quantities) and that the Employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification [2.1] The contractor shall: 1. Comply with the health and safety specification for the works 2. Prepare and agree with the health and safety consultant the health and safety plan for the works 3. Cooperate with the health and safety consultant in all respects 4. Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification 5. Conform to the conditions contained in the Employer's health and safety specification 6. The contractor shall price section D of the preliminaries and allow opposite each item for all costs associated in connection with the health and safety specification F:..... V:.....T:.....	Item	1		
87	As Built Drawings The contractor shall accurately record the details of the electrical, mechanical, security, fire installation, water reticulation details, construction breaks, etc., on drawings and issue same to the Principal Agent and the relevant agent for record purposes F:..... V:.....T:.....	Item	1		
88	Personal Protective EquipmentThe contractor shall provide and keep on site an adequate supply of clean safety helmets and reflective vests for the use of all professional personnel and all authorised visitors F:..... V:.....T:.....	Item	1		
89	Site Access for and Management of Direct Contracts The contractor shall allow direct contractors appointed by the Employer to access the site to execute work which does not form part of the Principal Building Agreement, concurrently with that of its (the principal building contractor), work. In this regard, the contractor shall provide any necessary assistance (e.g. ensuring placement of material orders, monitoring the manufacturing process, monitoring of raw materials availability, programming of works, etc.), to the principal agent in respect of management of any direct contracts. In this regard, is shall be deemed that all allowances have been made in the contract amount to ensure compliance with this clause F:..... V:.....T:.....	Item	1		
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90	Precontract Engagement Contractors shall be engaged prior to issuance of site possession to facilitate all necessary precontract work which shall include the construction work permit application, procurement of specialist sub-contractors, finalisation of contract and any design coordination between the contractor and the professional team. Contractors will be required to make the necessary allowances for such work during this period as no claims for additional preliminaries will be entertained F:..... V:.....T:.....	Item	1		
91	Community Liaison Officer (CLO) Allow a value of R60 000.00 (R 7 500.00 per month) for a salary of a CLO inclusive of a cell phone and laptop allowance.	Item	1		
Contract Provisions					
92	Tender Data Schedule F:..... V:.....T:.....	Item	1		
93	General Conditions of Contract F:..... V:.....T:.....	Item	1		
94	Special Conditions of Contract F:..... V:.....T:.....	Item	1		
95	Contract Data F:..... V:.....T:.....	Item	1		
Total Carried to Final Summary					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>SECTION 2 - NEW CHANGEROOMS / ABLUTIONS</u> <u>BILL NO 1</u> 2.1 <u>EARTHWORKS (PROVISIONAL)</u> Note: The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill. <u>Nature of ground</u> A soils investigation has been carried out on the site by the engineer and the report is annexed to these bills of quantities. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as "earth". All very hard unfeathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock" <u>Carting away of excavated material</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site <u>Filling and layer work materials</u> References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter <u>Testing</u> Prices for filling are to include for all necessary density and other tests <u>SITE CLEARANCE ETC</u> Site clearance 2.1.1 Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc 2.1.2 Stripping average 150mm thick layer of top soil and stockpiling on site <u>EXCAVATION, FILLING, ETC</u> EXCAVATIONS ETC <u>Excavation in earth not exceeding 2m deep</u> 2.1.3 Trenches, thickening to surface beds, etc.				
Total Carried Forward					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Total Brought Forward					
2.1.4	<u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 93% Mod AASHTO density</u> Exceeding 500mm and not exceeding 1 500mm deep for placing and removing form work to walls etc. <u>Extra over bulk excavations in earth for excavation in</u>	m ²	165		
2.1.5	Soft rock	m ³	19		
2.1.6	Hard rock	m ³	10		
	<u>Extra over all excavations for carting away</u>				
2.1.7	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor <u>Risk of collapse of excavations</u>	m ³	13		
2.1.8	Sides of trenches and holes not exceeding 1,5m deep <u>Keeping excavations free of water</u>	m ²	6		
2.1.9	Keeping excavations free of all water other than subterranean water FILLING ETC <u>Selected imported G2 earth filling spread, level, water and compact to 100% Mod AASHTO density</u>	Item	1		
2.1.10	Backfilling to trenches, holes, etc <u>Selected imported G7 earth filling spread, level, water and compact to 93% Mod AASHTO density</u>	m ³	10		
2.1.11	Backfilling to trenches, holes, etc WEED KILLERS, INSECTICIDES, ETC <u>Soil insecticide in accordance with SANS 5859</u>	m ³	13		
2.1.12	To bottoms and sides of trenches, etc	m ²	82		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>SECTION 2 - NEW CHANGEROOMS / ABLUTIONS</u> <u>BILL NO 2</u> <u>2.2 CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u> Note: The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill. <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 for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately) <u>Formwork</u> Descriptions of form work shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself Form work to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described Form work to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described Form work to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Form work 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" <u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> <u>25MPa concrete</u>				
2.2.1	Strip Footing	m ³	13		
2.2.2	Surface beds cast in panels on waterproofing	m ³	15		
Total Carried Forward					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Total Brought Forward					
2.2.3	<u>TEST CUBES</u> Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No.	6		
2.2.4	<u>CONCRETE SUNDRIES</u> <u>Finishing top surfaces of concrete smooth with a steel trowel</u> Surface beds, slabs, etc	m ²	132		
2.2.5	<u>Finishing top surfaces of concrete smooth with a power float with high quality grey non-metallic commercial hardener added (7kg/mB2 in two operations), curing with curing compound at a rate of 7-10mB2/l, subsequently removing curing compound and sealing with suitable sealer at a rate of 7mB2/l</u> Surface beds, etc	m ²	145		
2.2.6	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u> <u>Smooth formwork to soffits</u> Slabs	m ²	30		
2.2.7	<u>MOVEMENT JOINTS ETC</u> <u>Expansion joints with 10mm deep x 10mm wide "Dow Corning 813C" silicone or equivalent and equally approved sealant on 10mm thick polystyrene backing</u> Not exceeding 300mm high to edges of in-fill slab	m	15		
2.2.8	<u>Saw-cut joints</u> 3 x 40mm Saw-cut joints in top of concrete reamed out to 8mm wide	m	25		
2.2.9	<u>REINFORCEMENT (PROVISIONAL)</u> <u>High tensile steel reinforcement to structural concrete work</u> Bars of varying diameter	t	1,00		
2.2.10	<u>Fabric reinforcement</u> Mesh ref. 193 fabric reinforcement in concrete surface beds, slabs, etc.	m ²	160		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>SECTION 2 - NEW CHANGEROOMS / ABLUTIONS</u>				
	<u>BILL NO 3</u>				
2.3	<u>MASONRY (PROVISIONAL)</u>				
	Note: The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.				
	BRICKWORK				
	<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>BRICKWORK</u>				
	FOUNDATIONS (PROVISIONAL)				
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>				
2.3.1	One brick walls	m ²	127		
	SUPERSTRUCTURE				
	<u>Brickwork of NFP bricks in class II mortar</u>				
2.3.2	One brick walls	m ²	233		
	BRICKWORK SUNDRIES				
	<u>Joint forming material in movement joints</u>				
2.3.3	10mm Wide polystyrene spacer strip at wall connections	m	20		
	<u>Brickwork reinforcement</u>				
2.3.4	30mm Wide x 1.2mm thick galvanised steel strap built into brickwork every third course, fixed with "Hilti" drive pin or equivalent and equally approved shot fired into reinforced concrete column	m	26		
	<u>2.5mm Galvanised brick reinforcement</u>				
2.3.5	75mm Wide reinforcement built in horizontally	m	268		
2.3.6	150mm Wide reinforcement built in horizontally	m	567		
Total Carried Forward					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Total Brought Forward					
2.3.7	<u>Pre stressed fabricated concrete lintels including necessary temporary supports</u> Pair of 100 x 70mm lintels in lengths not exceeding 3m	m	22		
2.3.8	<u>Galvanised hoop iron cramps, ties, etc</u> 30 x 1,6mm Wall tie 500mm long with one end shot pinned to concrete and other end built into brickwork	No.	26		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2.4	<u>SECTION 2 - NEW CHANGEROOMS / ABLUTIONS</u>				
	<u>BILL NO 4</u>				
	<u>WATERPROOFING (PROVISIONAL)</u>				
	Note: The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.				
	<u>Waterproofing</u>				
	Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs				
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
	<u>One layer 375 micron embossed polyethylene damp proof course (SANS 952-1985 type B)</u>				
2.4.1	In walls	m ²	10		
	<u>One layer 500 micron orange polyethylene waterproof sheeting (SANS 952-1985 type A) sealed at laps with PVC self-adhesive tape</u>				
2.4.2	Under surface beds	m ²	132		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>SECTION 2 - NEW CHANGEROOMS / ABLUTIONS</u> <u>BILL NO 5</u> <u>CARPENTRY AND JOINERY (PROVISIONAL)</u> Note: The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill. <u>Fixing</u> Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere <u>Decorative thermosetting plastic laminate covering</u> Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish ROOF TIMBER STRUCTURE The following in gangnailed treated timber roof trusses and exposed timber feature trusses where specified from an approved supplier, delivered to site, hoisted into position, fixed and braced on 114x38mm SA Pine wall plate. Supply and Install Pre fabricated timber roof structure, including all fixing and complete as shown on the Architectural drawings including all required metalwork fixings, purlins, wallplate, bracing and Engineer's Certificates and including exposed trusses where specified. EAVES, VERGES, ETC Nutec' fascia boards, medium density plain, fittings and fixing accessories, fixed to				
.2.5					
2.5.1	Sum	1			
2.5.2	Fascia boards to be installed to front and back of building	m	32		
2.5.3	Barge boards to be installed to both sides ends	m	38		
	DOORS ETC <u>Single Solid hardwood core timber doors with masonite flush panels</u>				
2.5.4	8-Panel solid hardwood-Meranti single-leaf hinged door 813x2032mm - Exterior	No.	2		
	<u>Single Semi-solid core timber doors with masonite flush panels</u>				
2.5.5	8-Panel solid Hardwood-Meranti single-leaf hinged door 813x2032mm - Internal	No.	6		
Total Carried Forward					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Total Brought Forward					
2.5.6	Extra over for undercutting doors	No.	6		
	WOOD SEATING				
2.5.7	6000mm long wooded bench	No.	2		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2.6	<u>SECTION 2 - NEW CHANGEROOMS / ABLUTIONS</u> <u>BILL NO 6</u> <u>CEILINGS, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u> Note: The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill. <u>Fixing</u> Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere <u>Ceilings</u> Unless otherwise described ceilings shall be deemed to be horizontal. Rates for the applicable items contained in this bill are to allow for all necessary "scaffolding and special scaffolding" for the works to be carried out at all levels and heights as required on site. <u>Steel components</u> All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121 <u>SUSPENDED CEILINGS</u> Proprietary suspended ceilings Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations Electrical light fittings, diffusers, panels etc are generally "lay-in" units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly Flush plastered skim ceilings Ceilings shall comprise 12mm gypsum plasterboard boards screwed to and including screw-up suspension grid consisting of main tees at 1 200mm centres and galvanised steel capped cross tees at 400mm centres and with tape fixed over joints and the The grid shall be suspended by means of galvanised steel L-section hangers at suitable centres, securely shot-pinned or screwed to concrete, steel or wood				
Total Carried Forward					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Total Brought Forward					
	Flush plastered gypsum plasterboard suspended bulkheads Bulkheads shall comprise galvanised steel studding of 63,5mm top and bottom tracks with vertical studs at maximum 400mm centres, pop-riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc and covered as described with plasterboard screwed to studding with drywall screws at maximum 300mm centres. Boards shall be butt jointed and finished with tape and jointing compound and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer Descriptions shall be deemed to include any additional studs at ends and intersections, corner beads, cornices at junctions with ceilings, jointing compound, tape, etc 9.5mm thick gypsum plasterboard ceiling system suspended on a suspension grid system. All joints to be covered with fibre tape and the entire surface plastered with 3mm to 6mm thick skimming plaster.				
2.6.1	Ceilings suspended not exceeding 1m below concrete soffits	m ²	132		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>SECTION 2 - NEW CHANGEROOMS / ABLUTIONS</u> <u>BILL NO 7</u> <u>2.7 ROOF COVERINGS</u> The Bidder is referred to the relevant clauses in a separate document 'SPECIFICATION OF MATERIALS & METHODS' to be used PW371A (Edition 2.1 July 2014) from The Department of Public Works. PROFILE METAL SHEETING AND ACCESSORIES 0,58mm "Chromadek - Green or simiar approved" embossed galvanised troughed sheet steel with finish on one side in single lengths fixed to steel purlins or rails with 65mm Top Speed screws with 26mm diameter bonded washers and embossed galvanised sheet steel accessories with finish on one side all in accordance with the manufacturers' specifications				
2.7.1	Roof covering with pitch not exceeding 8 degrees <u>ROOF INSULATION</u> Sisalation "FR405 Light Industrial", or similar approved insulation with 150mm minimum industrial overlap laid in in accordance with manufatures specification:	m ²	149		
2.7.2	Insulation laid under purlins and fixed concurrent with roof sheeting, including galvanised nails and straining wires.	m ²	104,3		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>SECTION 2 - NEW CHANGEROOMS / ABLUTIONS</u>				
	<u>BILL NO 8</u>				
2.8	<u>IRONMONGERY (PROVISIONAL)</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	Finishes to ironmongery				
	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				
	Supply and install all Ironmongery items by "dormakaba" or equivalent and equally approved manufacturer				
	<u>Locks, indicator bolts, etc.</u>				
2.8.1	SOLID ART 390/313	No.	8		
2.8.2	3 lever mortice upright lock set	No.	4		
2.8.3	50mm Padlock with two keys	No.	2		
2.8.4	Anodised aluminium mortice indicator bolts	No.	4		
	<u>PICTOGRAMS</u>				
2.8.5	Male Union Engraved plate indicator pitogram size 152×152mm	No.	1		
2.8.6	Female Union Engraved plate indicator pitogram size 152×152mm	No.	2		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2.9	<u>SECTION 2 - NEW CHANGEROOMS / ABLUTIONS</u> <u>BILL NO 9</u> <u>METALWORK (PROVISIONAL)</u> Note: The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill. <u>General:</u> All structural steel work shall be of mild steel complying with the requirements of SABS Code of Practice 0162 for structural steel in General Building Construction. Where drawings and/ or details have been referred to Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained. All surfaces of steel are to be thoroughly cleaned of all rust, scale, oil or grease, all according with SABS Code of Practice 064 and then be given one (1) coat of primer complying with SABS Specification 909 before leaving the workshop. All steelwork built in as the work proceeds shall be hot dip galvanised after fabrication, but before leaving the manufacturers works, by the hot dip process, all in accordance with SABS Specifications 763. Doors and windows shall comply with AAAMSA design criteria Glazing shall comply with SAGGA regulations. Glass shall be laminated performance glass as shown on the window schedules appended to these bills of quantities (as described in the headings to window descriptions). Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules. Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed. For purpose made windows and doors, refer to drawings annexed to these bills of quantities <u>PRESSED STEEL DOOR FRAMES</u> <u>1.6mm Double rebated frames, factory primed with red oxide and suitable for one brick walls supplied with fixing, tie bars and two 100mm steel butt hinges per door leaf to suit doors:</u>				
	2.9.1 TD-05 Size: 813 x 2 032mm high door	No.	8		
Total Carried Forward					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Total Brought Forward					
	<u>HOT DIPPED GALVANIZED HEAVY DUTY STEEL WINDOWS,DOORS, ETC</u> NOTE: Where so described windows shall be fitted with burglar bars consisting of 20 x 5mm mild steel flat sections to standard NBP2 pattern welded at intersections and to window frame Standard residential windows with burglar bars to opening sashes				
2.9.2	W-01 size: 2 400 x 600mm high window	No.	4		
2.9.3	W-02 size: 600 x 900mm high window	No.	8		
	<u>Steel gate</u>				
2.9.4	<u>Supply and install galvanised burglar guard single gate at entrance doors including all fixing and complete</u>	No.	2		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>SECTION 2 - NEW CHANGEROOMS / ABLUTIONS</u>				
	<u>BILL NO 10</u>				
2.10	<u>PLASTERING (PROVISIONAL)</u>				
	Note: The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.				
	<u>SCREEDS</u>				
	<u>Screeds wood floated, on concrete</u>				
2.10.1	40mm Thick on floors and landings	m ²	132		
2.10.2	Average 75mm thick on slabs with upper surface to falls and currents	m ²	20		
	<u>INTERNAL & EXTERNAL PLASTER</u>				
	<u>Cement plaster wood floated for tiles, on brickwork</u>				
2.10.3	On walls	m ²	697		
2.10.4	On narrow widths not exceeding 300mm wide	m ²	121		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2.11	<u>SECTION 2 - NEW CHANGEROOMS / ABLUTIONS</u>				
	<u>BILL NO 11</u>				
	<u>TILING (PROVISIONAL)</u>				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	Prime Cost amounts for tiles are NET Rates for tiling, in addition to the PC amount, must include for fixing, adhesive, grout, wastage, profit, etc				
	NOTES Prior to the laying of the floor tiles, the screeded substrate shall be thoroughly checked for levelness, imperfections, etc., as no claim will be entertained should the floor be deemed to be uneven in appearance by the Architect or Client				
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat				
	Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Professional" range of products as recommended by the manufacturer of the tiles				
	<u>FLOOR TILING</u>				
	350 x 350 x 12mm Through colour Terracotta non slip floor tiles or other approved fixed with adhesive:				
2.11.1	On floors	m ²	132		
2.11.2	Skirting 100mm high	m	266		
	<u>SUNDRIES</u>				
	Aluminium corner protectors, stair nosing, edge trims, division strips etc.				
2.11.3	30 x 30mm Stainless steel tile-in corner protector. Profile to be anchored in place by adhesive, with a grade 304 dot pattern finish	m	10		
2.11.4	8mm Wide x 10 deep natural anodised square edge trim to top edge of tiled skirting.. Profile to be anchored in place by adhesive.	m	266		
2.11.5	25mm Wide x 8mm high LSP 250 Stainless steel listello or equivalent and equally approved between floor tiles with a 102 brushed stainless steel finish installed as per manufacturer's instructions	m	4		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2.12	<u>SECTION 2 - NEW CHANGEROOMS / ABLUTIONS</u>				
	<u>BILL NO 12</u>				
	<u>PLUMBING & NEW SEPTIC TANK (PROVISIONAL)</u>				
	Note: The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill. Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained <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 <u>General</u> Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately) Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends Descriptions of pipes laid in and including trenches and of inspection chambers, catch pits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 90% Mod AASHTO density and disposal of surplus material on site <u>As-built drawings</u> The contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere) <u>PLUMBING & NEW SEPTIC TANK</u> Provide the sum of R 380 000 (Three hundred eighty thousand rand only) for basic all plumbing installations & construction of New Septic Tank Attendance on last Profit On Last <u>RAINWATER GOODS</u> 125 x 115 x 0.9mm aluminium squire gutters, including fixing to fibre cement fascia, with 20 x 3mm dual purpose brackets at 600mm centres using aluminium pop rivets.				
		Sum	1	R 380 000,00	R 380 000,00
		%	R 380 000,00		
		%	R 380 000,00		
2.12.1		m	16		
Total Carried Forward					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Total Brought Forward					
2.12.2	110mm diameter aluminium squire downpipe including all bends, junctions, strap, brackets and clips.	No.	2		
2.12.3	Extra over rainwater aluminium pipe for shoe	No.	2		
2.12.4	Supply and install 5000 Litre JOJO tank to be installed on the CONSTRUCTED stand	No.	2		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2.13	<u>SECTION 2 - NEW CHANGEROOMS / ABLUTIONS</u>				
	<u>BILL NO 13</u>				
	<u>GLAZING (PROVISIONAL)</u>				
	Note: The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.				
	<u>Mirror</u>				
	<u>6mm Silvered float glass copper backed mirrors with polished edges, holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork</u>				
2.13.1	655 x 2 960mm Wall mounted mirror	No.	10		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2.14	<u>SECTION 2 - NEW CHANGEROOMS / ABLUTIONS</u>				
	<u>BILL NO 14</u>				
	<u>PAINTWORK (PROVISIONAL)</u>				
	Note: The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	PREPARATION OF PLASTERED SURFACES				
	Preparation of plastered surfaces before applying paint will: scrub entire area with sugar soap solution to remove dirt, chalked material and any other contaminants. Rinse thoroughly with fresh water and allow drying. Repair cracks and/or plaster defects as per "Crack Repair / Plaster Finish" guidelines available from manufacturers. All surfaces must be clean, sound and dry before painting. The moisture content of the cement plaster surfaces must be below 8% when measured on a Doser Hygrometer BD2 scale (or equivalent)				
	PAINT SPECIFICATIONS				
	All painting shall be done in accordance with "Dulux" specifications unless otherwise described				
	COLOURS				
	Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards				
	<u>ON INTERNAL & EXTERNAL FLOATED PLASTER SURFACES</u>				
	<u>One coat Dulux trade alkali resistant plaster primer, two coats of Dulux trade 90 BG 72 /063 low sheen wash and ware. Colour: BIG CHILL or equivalent and equally approved</u>				
2.14.1	Walls	m ²	697		
2.14.2	Extra over for paintwork on components in the "Pastel" colour group for paintwork in the "Deep" colour group (Provisional)	m ²	146		
	<u>ON PLASTERBOARD SURFACES</u>				
	<u>One coat professional gypsum and plaster primer and two coats white PVA paint</u>				
2.14.3	Ceilings ("White" colour group)	m ²	132		
	<u>ON WOOD SURFACES</u>				
	<u>One coat wood primer and two coats superior quality clear matt varnish</u>				
2.14.4	Doors	m ²	31		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>SECTION 2 - NEW CHANGEROOMS / ABLUTIONS</u>				
	<u>BILL NO 15</u>				
2.15	<u>ELECTRICAL WORKS (PROVISIONAL)</u>				
	<u>GENERAL NOTES:</u>				
	1. This Bill of Quantities forms part of, and must be read in conjunction with the complete specification and must be submitted, duly completed, on the closing date of tenders. 2. Tenderers must complete the Bill of Quantities and detail the unit rate and total amount of each item. The "Total" shall constitute the tender price for adjudication. Tenderers are advised to check their item extension and total additions as arithmetical errors occurring in the priced Bill of Quantities cannot be considered as having an effect on the tender amount. 3. No alteration, erasure or addition is to be made in the text of the Bill of Quantities. Should any alteration, erasure or addition be made it will not be recognised but the original wording of the Bill of Quantities will be adhered to. The Engineer will check the completed Bill of Quantities and reserves the right to adjust any individual price and to rectify any discrepancy whilst the total tender price as quoted remains unaltered. 4. The quantities given in the Bill for cable, cable markers, earth wire laid with cable, overhead conductors, overhead earth wire and excavations cannot be regarded as exact and are subject to measurement on site after completion of the service and adjustments will be made according to the unit rates given in the Bill. All other quantities will not be measured on site. In the event of discrepancies between the drawings, specifications and Bill of Quantities the Engineer shall decide whether the work as executed shall be remeasured on site or whether remeasurement shall be effected from the working drawings only. 5. The Bill of Quantities is to be used for pricing and financial purposes only. The drawings take precedence over the particular (project) specification but should be used in conjunction with these specifications. The Project Specification takes precedence over quality.				
2.15.1	Provision for final testing and Certificate of Compliance to be issued on completion of the project	Item	1		
2.15.2	Supply and Install DB board at the wall at the rear entrance/exit to cater for lightening and	No.	1		
2.15.3	Route power from the nearest building or power point using 16mm cored cable as a minimum	m	50		
2.15.4	Install fluorescent ceiling lights closed four of 2x20watt lights equidistantly fitted in the classroom.	No.	8		
2.15.5	Supply and Install 1 light switch 150mm from door frame and 1500mm from floor level	No.	4		
2.15.6	Install 1 x15 amp single socket plug on wall and 300mm above floor and 300mm below ceiling	No.	1		
2.15.7	Install bulk headlights on the front and rear of the block spaced equal distance and 2100mm above ground level	No.	4		
2.15.8	Install 2x 30 watts led flood lights 800mm beneath the apex/kingpost of both external Sides	No.	2		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>SECTION 2 - NEW CHANGEROOMS / ABLUTIONS</u>				
	<u>BILL NO 16</u>				
2.16	<u>VERANDA (PROVISIONAL)</u>				
	Excavation in earth not exceeding 2m deep				
2.16.1	Reduced levels under floors	m ³	15		
2.16.2	Filling of G5 material supplied by contractor compacted to 95% Mod AASHTO density	m ³	36		
	CONCRETE & REINFORCEMENT				
2.16.3	25MPa/19mm concrete reinforced concrete cast on/in formwork	m ²	4		
2.16.4	Finishing top surfaces of concrete smooth with a wood float to a non-slip surface	m ²	36		
	FORMWORK				
2.16.5	Edges, risers, ends and reveals not exceeding 300mm high or	m ²	18		
	REINFORCEMENT				
2.16.6	Type 193 fabric reinforcement in concrete surface beds, etc (under veranda)	m ²	36		
	WATERPROOFING				
2.16.7	One layer of 250 micron "Consol Plastics Gunplas USB Green"	m ²	36		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>SECTION 2 - NEW CHANGEROOMS / ABLUTIONS</u>				
	<u>SUMMARY OF SECTION</u>				
2.1	Earthworks (Provisional)				
2.2	Concrete, Formwork and Reinforcement (Provisional)				
2.3	Masonry (Provisional)				
2.4	Waterproofing (Provisional)				
2.5	Carpentry and Joinery (Provisional)				
2.6	Ceilings, Partitions and Access Flooring (Provisional)				
2.7	Roof Coverings, etc. (Provisional)				
2.8	Ironmongery (Provisional)				
2.9	Metalwork (Provisional)				
2.10	Plastering (Provisional)				
2.11	Tiling (Provisional)				
2.12	Plumbing (Provisional)				
2.13	Glazing (Provisional)				
2.14	Paintwork (Provisional)				
2.15	Electrical (Provisional)				
2.16	Veranda (Provisional)				
Total Carried to Final Summary					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3.1	<u>SECTION 3 - NEW CLASSROOM BLOCK</u>				
	<u>BILL NO 1</u>				
	<u>EARTHWORKS (PROVISIONAL)</u>				
	Note: The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.				
	<u>Nature of ground</u> A soils investigation has been carried out on the site by the engineer and the report is annexed to these bills of quantities. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as "earth". All very hard unfeathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock" <u>Carting away of excavated material</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site <u>Filling and layer work materials</u> References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter <u>Testing</u> Prices for filling are to include for all necessary density and other tests				
3.1.1	<u>SITE CLEARANCE ETC</u>				
	Site clearance				
3.1.1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m ²	743		
3.1.2	Stripping average 150mm thick layer of top soil and stockpiling on site	m ²	203		
3.1.3	<u>EXCAVATION, FILLING, ETC</u>				
	EXCAVATIONS ETC				
	<u>Excavation in earth not exceeding 2m deep</u>				
3.1.3	Trenches, thickening to surface beds, etc.	m ³	119		
Total Carried Forward					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Total Brought Forward					
3.1.4	<u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 93% Mod AASHTO density</u> Exceeding 500mm and not exceeding 1 500mm deep for placing and removing form work to walls etc. <u>Extra over bulk excavations in earth for excavation in</u>	m ²	374		
3.1.5	Soft rock	m ³	59		
3.1.6	Hard rock	m ³	33		
	<u>Extra over all excavations for carting away</u>				
3.1.7	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor <u>Risk of collapse of excavations</u>	m ³	92		
3.1.8	Sides of trenches and holes not exceeding 1,5m deep <u>Keeping excavations free of water</u>	m ²	50		
3.1.9	Keeping excavations free of all water other than subterranean water FILLING ETC <u>Selected imported G2 earth filling spread, level, water and compact to 100% Mod AASHTO density</u>	Item	1		
3.1.10	Backfilling to trenches, holes, etc <u>Selected imported G7 earth filling spread, level, water and compact to 93% Mod AASHTO density</u>	m ³	60		
3.1.11	Backfilling to trenches, holes, etc WEED KILLERS, INSECTICIDES, ETC <u>Soil insecticide in accordance with SANS 5859</u>	m ³	101		
3.1.12	To bottoms and sides of trenches, etc	m ²	403		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3.2	<u>SECTION 3 - NEW CLASSROOM BLOCK</u> <u>BILL NO 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u> Note: The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill. <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 for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately) <u>Formwork</u> Descriptions of form work shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself Form work to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described Form work to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described Form work to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Form work 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" <u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u> <u>25MPa concrete</u>				
	3.2.1 Strip Footing	m ³	35		
	3.2.2 Surface beds cast in panels on waterproofing	m ³	43		
Total Carried Forward					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Total Brought Forward					
3.2.3	<u>TEST CUBES</u> Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional) <u>CONCRETE SUNDRIES</u> <u>Finishing top surfaces of concrete smooth with a steel trowel</u>	No.	50		
3.2.4	Surface beds, slabs, etc <u>Finishing top surfaces of concrete smooth with a power float with high quality grey non-metallic commercial hardener added (7kg/mB2 in two operations), curing with curing compound at a rate of 7-10mB2/l, subsequently removing curing compound and sealing with suitable sealer at a rate of 7mB2/l</u>	m ²	403		
3.2.5	Surface beds, etc <u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u> <u>Smooth formwork to soffits</u>	m ²	443		
3.2.6	Slabs <u>MOVEMENT JOINTS ETC</u> <u>Expansion joints with 10mm deep x 10mm wide "Dow Corning 813C" silicone or equivalent and equally approved sealant on 10mm thick polystyrene backing</u>	m ²	70		
3.2.7	Not exceeding 300mm high to edges of in-fill slab <u>Saw-cut joints</u>	m	65		
3.2.8	3 x 40mm Saw-cut joints in top of concrete reamed out to 8mm wide <u>REINFORCEMENT (PROVISIONAL)</u> <u>High tensile steel reinforcement to structural concrete work</u>	m	48		
3.2.9	Bars of varying diameter <u>Fabric reinforcement</u>	t	2,86		
3.2.10	Mesh ref. 193 fabric reinforcement in concrete surface beds, slabs, etc.	m ²	488		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3.3	<u>SECTION 3 - NEW CLASSROOM BLOCK</u>				
	<u>BILL NO 3</u>				
	<u>MASONRY (PROVISIONAL)</u>				
	Note: The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.				
	BRICKWORK				
	<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>				
3.3.1	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
	<u>BRICKWORK</u>				
	<u>FOUNDATIONS (PROVISIONAL)</u>				
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>				
	One brick walls	m ²	257		
	<u>SUPERSTRUCTURE</u>				
	<u>Brickwork of NFP bricks in class II mortar</u>				
	One brick walls	m ²	412		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Joint forming material in movement joints</u>				
3.3.3	10mm Wide polystyrene spacer strip at wall connections	m	50		
	<u>Brickwork reinforcement</u>				
3.3.4	30mm Wide x 1.2mm thick galvanised steel strap built into brickwork every third course, fixed with "Hilti" drive pin or equivalent and equally approved shot fired into reinforced concrete column	m	46		
	<u>2.5mm Galvanised brick reinforcement</u>				
3.3.5	75mm Wide reinforcement built in horizontally	m	1 271		
3.3.6	150mm Wide reinforcement built in horizontally	m	1 845		
Total Carried Forward					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Total Brought Forward					
3.3.7	<u>Pre stressed fabricated concrete lintels including necessary temporary supports</u> Pair of 100 x 70mm lintels in lengths not exceeding 3m	m	48		
3.3.8	<u>Galvanised hoop iron cramps, ties, etc</u> 30 x 1,6mm Wall tie 500mm long with one end shot pinned to concrete and other end built into brickwork	No.	70		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3.4	<u>SECTION 3 - NEW CLASSROOM BLOCK</u>				
	<u>BILL NO 4</u>				
	<u>WATERPROOFING (PROVISIONAL)</u>				
	Note: The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.				
	<u>Waterproofing</u>				
	Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs				
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
	<u>One layer 375 micron embossed polyethylene damp proof course (SANS 952-1985 type B)</u>				
3.4.1	In walls	m ²	38		
	<u>One layer 500 micron orange polyethylene waterproof sheeting (SANS 952-1985 type A) sealed at laps with PVC self-adhesive tape</u>				
3.4.2	Under surface beds	m ²	443		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3.5	<u>SECTION 3 - NEW CLASSROOM BLOCK</u>				
	<u>BILL NO 5</u>				
	<u>CARPENTRY AND JOINERY (PROVISIONAL)</u>				
	Note: The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.				
	<u>Fixing</u>				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere				
	<u>Decorative thermosetting plastic laminate covering</u>				
	Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish				
	ROOF TIMBER STRUCTURE				
	The following in gangnailed treated timber roof trusses and exposed timber feature trusses where specified from an approved supplier, delivered to site, hoisted into position, fixed and braced on 114x38mm SA Pine wall plate.				
3.5.1	Supply and Install Pre fabricated timber roof structure, including all fixing and complete as shown on the Architectural drawings including all required metalwork fixings, purlins, wallplate, bracing and Engineer's Certificates and including exposed trusses where specified.	Sum	1		
	EAVES, VERGES, ETC				
	Nutec' fascia boards, medium density plain, fittings and fixing accessories, fixed to				
3.5.2	Fascia boards to be installed to front and back of building.	m	85		
3.5.3	Barge boards to be installed to both sides ends	m	27		
	DOORS ETC				
	<u>Single Solid hardwood core timber doors with masonite flush panels</u>				
3.5.4	8-Panel solid hardwood-Meranti single-leaf hinged door 813x2032mm - Exterior	No.	4		
	<u>Single Semi-solid core timber doors with masonite flush panels</u>				
3.5.5	8-Panel solid Hardwood-Meranti single-leaf hinged door 813x2032mm - Internal	No.	4		
Total Carried Forward					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Total Brought Forward					
3.5.6	Extra over for undercutting doors SUNDRY JOINERY <u>SUPPLEMENTARY PREAMBLES</u> <u>General</u> The following cupboard fittings are given as complete units i.e. the components of the units have not been given separately. Descriptions of such units shall, therefore, be deemed to include all components, assembling, housing, notching, glueing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or varnish finishes, etc Prices are to include for all necessary filler pieces against walls etc <u>References</u> References given in descriptions refer to the respective types of fittings detailed on the architect's drawing accompanying these bills of quantities for tender purposes TIMBER BEAM FRONT OF THE BUILDING	No.	4		
3.5.7	225mm Timber beam on the verandah holding roof BUDGETARY ALLOWANCES	m	43		
3.5.8	Allow the sum of R 100 000.00 for the supply and installation of shelving to storerooms Attendance on last Profit On Last	Item % %	1 R 100 000,00 R 100 000,00	R 100 000,00	R 100 000,00
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3.6	<u>SECTION 3 - NEW CLASSROOM BLOCK</u> <u>BILL NO 6</u> <u>CEILINGS, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u> Note: The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill. <u>Fixing</u> Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere <u>Ceilings</u> Unless otherwise described ceilings shall be deemed to be horizontal. Rates for the applicable items contained in this bill are to allow for all necessary "scaffolding and special scaffolding" for the works to be carried out at all levels and heights as required on site. <u>Steel components</u> All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121 <u>SUSPENDED CEILINGS</u> Proprietary suspended ceilings Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations Electrical light fittings, diffusers, panels etc are generally "lay-in" units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof) Flush plastered skim ceilings Ceilings shall comprise 12mm gypsum plasterboard boards screwed to and including screw-up suspension grid consisting of main tees at 1 200mm centres and galvanised steel capped cross tees at 400mm centres and with tape fixed over joints and the whole finished with gypsum plaster trowelled to a smooth polished surface The grid shall be suspended by means of galvanised steel L-section hangers at suitable centres, securely shot-pinned or screwed to concrete, steel or wood				
Total Carried Forward					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Total Brought Forward					
3.6.1	Flush plastered gypsum plasterboard suspended bulkheads Bulkheads shall comprise galvanised steel studding of 63,5mm top and bottom tracks with vertical studs at maximum 400mm centres, pop-riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc and covered as described with plasterboard screwed to studding with drywall screws at maximum 300mm centres. Boards shall be butt jointed and finished with tape and jointing compound and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer Descriptions shall be deemed to include any additional studs at ends and intersections, corner beads, cornices at junctions with ceilings, jointing compound, tape, etc 9.5mm thick gypsum plasterboard ceiling system suspended on a suspension grid system. All joints to be covered with fibre tape and the entire surface plastered with 3mm to 6mm thick skimming plaster. Ceilings suspended not exceeding 1m below concrete soffits	m ²	242		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3.7	<u>SECTION 3 - NEW CLASSROOM BLOCK</u> <u>BILL NO 7</u> <u>ROOF COVERINGS</u> The Bidder is referred to the relevant clauses in a separate document 'SPECIFICATION OF MATERIALS & METHODS' to be used PW371A (Edition 2.1 July 2014) from The Department of Public Works. PROFILE METAL SHEETING AND ACCESSORIES 0,58mm "Chromadek - Green" embossed galvanised troughed sheet steel with finish on one side in single lengths fixed to steel purlins or rails with 65mm Top Speed screws with 26mm diameter bonded washers and embossed galvanised sheet steel accessories with finish on one side all in accordance with the manufacturers' specifications				
	3.7.1 Roof covering with pitch not exceeding 8 degrees <u>ROOF INSULATION</u> Sisalation "FR405 Light Industrial", or similar approved insulation with 150mm minimum industrial overlap laid in in accordance with manufactures specification:	m ²	469		
	3.7.2 Insulation laid under purlins and fixed concurrent with roof sheeting, including galvanised nails and straining wires.	m ²	328,3		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
3.8	<u>SECTION 3 - NEW CLASSROOM BLOCK</u>					
	<u>BILL NO 8</u>					
	<u>IRONMONGERY (PROVISIONAL)</u>					
	<u>SUPPLEMENTARY PREAMBLES</u>					
	Finishes to ironmongery					
	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					
	Supply and install all Ironmongery items by "dormakaba" or equivalent and equally approved manufacturer					
	<u>Locks, indicator bolts, etc.</u>					
	3.8.1	SOLID ART 390/313	No.	8		
	3.8.2	3 lever mortice upright lock set	No.	8		
	3.8.3	50mm Padlock with two keys	No.	4		
	<u>Handles</u>					
	"Union" or similar approved:					
3.8.4	Ref. 741 Heavy duty architectural door closer	No.	4			
<u>Sundries</u>						
3.8.5	Floor mounted door stop. Code: DDS-NP-018	No.	8			
Total Carried to Summary of Section						

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>SECTION 3 - NEW CLASSROOM BLOCK</u>				
	<u>BILL NO 9</u>				
3.9	<u>STRUCTURAL STEELWORK (PROVISIONAL)</u>				
	Note: The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.				
	All work to be in accordance with SANS 1200 H All Structural steelwork to be Grade S355JR galvanised in accordance with SANS 4998/ISO 4998:1996 for 'Structural Quality'. All bolts to be Grade 8.8 bolts and to be hot dipped galvanised to SANS 121:2011 (ISO 1461:2009(E)). Contractor is to refer to Engineer's notes for details of all fixing, welding, etc.				
3.9.1	Supply and install Steel Columns,Bolts, U- Channel fixed to Timber Beam, etc	No.	9		
3.9.2	Supply and install Steel Beam in Passage way,Bolts, I- Beam fixed to block wall, etc	m	9		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3.10	<u>SECTION 3 - NEW CLASSROOM BLOCK</u> <u>BILL NO 10</u> <u>METALWORK (PROVISIONAL)</u> Note: The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill. <u>General:</u> All structural steel work shall be of mild steel complying with the requirements of SABS Code of Practice 0162 for structural steel in General Building Construction. Where drawings and/ or details have been referred to Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained. All surfaces of steel are to be thoroughly cleaned of all rust, scale, oil or grease, all according with SABS Code of Practice 064 and then be given one (1) coat of primer complying with SABS Specification 909 before leaving the workshop. All steelwork built in as the work proceeds shall be hot dip galvanised after fabrication, but before leaving the manufacturers works, by the hot dip process, all in accordance with SABS Specifications 763. Doors and windows shall comply with AAAMSA design criteria Glazing shall comply with SAGGA regulations. Glass shall be laminated performance glass as shown on the window schedules appended to these bills of quantities (as described in the headings to window descriptions). Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules. Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed. For purpose made windows and doors, refer to drawings annexed to these bills of quantities <u>PRESSED STEEL DOOR FRAMES</u> <u>1.6mm Double rebated frames, factory primed with red oxide and suitable for one brick walls supplied with fixing, tie bars and two 100mm steel butt hinges per door leaf to suit doors:</u>				
	3.10.1 TD-05 Size: 813 x 2 032mm high door	No.	8		
Total Carried Forward					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Total Brought Forward					
	<u>HOT DIPPED GALVANIZED HEAVY DUTY STEEL WINDOWS,DOORS, ETC</u> NOTE: Where so described windows shall be fitted with burglar bars consisting of 20 x 5mm mild steel flat sections to standard NBP2 pattern welded at intersections and to window frame Standard residential windows with burglar bars to opening sashes				
3.10.2	W-01 size: 600 x 1 200mm high window	No.	4		
3.10.3	W-02 size: 2 400 x 600mm high window	No.	8		
3.10.4	W-03 size: 1 022 x 1 245mm high window	No.	8		
3.10.5	W-04 size: 900 x 900mm high window	No.	4		
	<u>Steel gate</u>				
	<u>Supply and install galvanised burglar guard single gate at entrance doors including all fixing and complete</u>	No.	4		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3.11	<u>SECTION 3 - NEW CLASSROOM BLOCK</u>				
	<u>BILL NO 11</u>				
	<u>PLASTERING (PROVISIONAL)</u>				
	Note: The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.				
	<u>SCREEDS</u>				
	<u>Screeds wood floated, on concrete</u>				
	3.11.1 40mm Thick on floors and landings	m ²	314		
	3.11.2 Average 75mm thick on slabs with upper surface to falls and currents	m ²	69		
	<u>INTERNAL & EXTERNAL PLASTER</u>				
	<u>Cement plaster wood floated for tiles, on brickwork</u>				
3.11.3	On walls	m ²	542		
3.11.4	On narrow widths not exceeding 300mm wide	m ²	188		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3.12	<u>SECTION 3 - NEW CLASSROOM BLOCK</u>				
	<u>BILL NO 12</u>				
	<u>TILING (PROVISIONAL)</u>				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	Prime Cost amounts for tiles are NET Rates for tiling, in addition to the PC amount, must include for fixing, adhesive, grout, wastage, profit, etc				
	NOTES Prior to the laying of the floor tiles, the screeded substrate shall be thoroughly checked for levelness, imperfections, etc., as no claim will be entertained should the floor be deemed to be uneven in appearance by the Architect or Client				
	Fixing				
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat				
	Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Professional" range of products as recommended by the manufacturer of the tiles				
	<u>FLOOR TILING</u>				
	350 x 350 x 12mm Through colour Terracotta non slip floor tiles or other approved fixed with adhesive				
3.12.1	On floors	m ²	339		
3.12.2	Skirting 100mm high	m	266		
	<u>SUNDRIES</u>				
	Aluminium corner protectors, stair nosing, edge trims, division strips etc.				
3.12.3	30 x 30mm Stainless steel tile-in corner protector. Profile to be anchored in place by adhesive, with a grade 304 dot pattern finish	m	6		
3.12.4	8mm Wide x 10 deep natural anodised square edge trim to top edge of tiled skirting. Profile to be anchored in place by adhesive.	m	266		
3.12.5	25mm Wide x 8mm high LSP 250 Stainless steel listello or equivalent and equally approved between floor tiles with a 102 brushed stainless steel finish installed as per manufacturer's instructions	m	6		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3.13	<u>SECTION 3 - NEW CLASSROOM BLOCK</u> <u>BILL NO 13</u> <u>RAINWATER GOODS (PROVISIONAL)</u> Note: The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill. Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained <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 <u>General</u> Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately) Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends Descriptions of pipes laid in and including trenches and of inspection chambers, catch pits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 90% Mod AASHTO density and disposal of surplus material on site <u>As-built drawings</u> The contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere) <u>RAINWATER DISPOSAL</u> <u>0.9mm Thick seamless aluminium Ogee Gutters, thick coated internally and externally with ColourTech G4 in colour marble white and accessories:</u>				
	3.13.1 125 x 115 x 0.9mm Box profile gutters, including fixing to fibre cement fascia, with 20 x 3mm dual purpose brackets at 600mm centres using aluminium pop rivets.	m	43		
	3.13.2 110mm diameter pvc downpipe including all bends, junctions, strap, brackets and clips.	No.	15		
Total Carried Forward					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Total Brought Forward					
3.13.3	Extra over rainwater pipe for shoe	No.	2		
3,13.4	<u>Supply and install 5000litre JOJO tank to be installed on the CONSTRUCTED stand</u>	No.	2		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3.14	<u>SECTION 3 - NEW CLASSROOM BLOCK</u>				
	<u>BILL NO 14</u>				
3.14.1	<u>GLAZING (PROVISIONAL)</u>				
	Note: The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.				
3.14.1	<u>6mm Clear toughened safety glass</u>				
	<u>6mm Silvered float glass copper backed mirrors with polished edges, holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork</u>				
3.14.1	Panes exceeding 0,1m2 and not exceeding 0,5m2	No.	18		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3.15	<u>SECTION 3 - NEW CLASSROOM BLOCK</u>				
	<u>BILL NO 15</u>				
	<u>PAINTWORK (PROVISIONAL)</u>				
	Note: The tenderer is advised to refer to the Model Preambles for Trades, before pricing this bill.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	PREPARATION OF PLASTERED SURFACES				
	Preparation of plastered surfaces before applying paint will: scrub entire area with sugar soap solution to remove dirt, chalked material and any other contaminants. Rinse thoroughly with fresh water and allow drying. Repair cracks and/or plaster defects as per "Crack Repair / Plaster Finish" guidelines available from manufacturers. All surfaces must be clean, sound and dry before painting. The moisture content of the cement plaster surfaces must be below 8% when measured on a Doser Hygrometer BD2 scale (or equivalent)				
	PAINT SPECIFICATIONS				
	All painting shall be done in accordance with "Dulux" specifications unless otherwise described				
	COLOURS				
	Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards				
	<u>ON INTERNAL & EXTERNAL FLOATED PLASTER SURFACES</u>				
	<u>One coat Dulux trade alkali resistant plaster primer, two coats of Dulux trade 90 BG 72 /063 low sheen wash and ware. Colour: BIG CHILL or equivalent and equally approved</u>				
3.15.1	Walls	m ²	656		
3.15.2	Extra over for paintwork on components in the "Pastel" colour group for paintwork in the "Deep" colour group (Provisional)	m ²	227		
	<u>ON PLASTERBOARD SURFACES</u>				
	<u>One coat professional gypsum and plaster primer and two coats white PVA paint</u>				
3.15.3	Ceilings ("White" colour group)	m ²	243		
	<u>ON WOOD SURFACES</u>				
	<u>One coat wood primer and two coats superior quality clear matt varnish</u>				
3.15.4	Doors	m ²	31		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3.16	<u>SECTION 3 - NEW CLASSROOM BLOCK</u>				
	<u>BILL NO 16</u>				
	<u>ELECTRICAL WORKS (PROVISIONAL)</u>				
	<u>GENERAL NOTES:</u>				
	1. This Bill of Quantities forms part of, and must be read in conjunction with the complete specification and must be submitted, duly completed, on the closing date of tenders. 2. Tenderers must complete the Bill of Quantities and detail the unit rate and total amount of each item. The "Total" shall constitute the tender price for adjudication. Tenderers are advised to check their item extension and total additions as arithmetical errors occurring in the priced Bill of Quantities cannot be considered as having an effect on the tender amount. 3. No alteration, erasure or addition is to be made in the text of the Bill of Quantities. Should any alteration, erasure or addition be made it will not be recognised but the original wording of the Bill of Quantities will be adhered to. The Engineer will check the completed Bill of Quantities and reserves the right to adjust any individual price and to rectify any discrepancy whilst the total tender price as quoted remains unaltered. 4. The quantities given in the Bill for cable, cable markers, earth wire laid with cable, overhead conductors, overhead earth wire and excavations cannot be regarded as exact and are subject to measurement on site after completion of the service and adjustments will be made according to the unit rates given in the Bill. All other quantities will not be measured on site. In the event of discrepancies between the drawings, specifications and Bill of Quantities the Engineer shall decide whether the work as executed shall be remeasured on site or whether remeasurement shall be effected from the working drawings only. 5. The Bill of Quantities is to be used for pricing and financial purposes only. The drawings take precedence over the particular (project) specification but should be used in conjunction with these specifications. The Project Specification takes precedence over quality.				
	3.16.1 Provision for final testing and Certificate of Compliance to be issued on completion of the project	Item	1		
	3.16.2 Supply and Install DB board at the wall at the rear entrance/exit to cater for lightening and	No.	1		
	3.16.3 Route power from the nearest building or power point using 16mm cored cable as a minimum	m	121		
	3.16.4 Install fluorescent ceiling lights closed four of 2x20watt lights equidistantly fitted in the classroom.	No.	20		
	3.16.5 Supply and Install 1 light switch 150mm from door frame and 1500mm from floor level	No.	8		
	3.16.6 Install 1 x15 amp single socket plug on wall and 300mm above floor and 300mm below ceiling	No.	16		
	3.16.7 Install bulk headlights on the front and rear of the block spaced equal distance and 2100mm above ground level	No.	10		
	3.16.8 Install 2x 30watts led flood lights 800mm beneath the apex/kingpost of both external Sides	No.	2		
Total Carried Forward					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Total Brought Forward					
3.16.9	Supply and install galvanized brackets with all accessories for 24000BTU air conditioning condenser.	No.	4		
3.16.10	Install the required lightening protection/earth spike	Sum	1		
3.16.11	Supply and install Interactive White Smart Boards, complete with cables and mounted on the wall, including Projector & Kits.	No.	4		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3.17	<u>SECTION 3 - NEW CLASSROOM BLOCK</u> <u>BILL NO 17</u> <u>FIRE PROTECTION INSTALLATION (PROVISIONAL)</u> <u>FIRE PROTECTION EQUIPMENT</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated descriptions utilised in these bills of quantities by inter alia referring to SANS construction standards. The Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the Model Preambles The contractor's prices for all items throughout these bills of quantities shall take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles and/or specifications The Tenderer is referred to Engineer's specifications and drawings for the Umalusi Fire Protection Installation, issued together with these bills of quantities when pricing the items below. <u>Standard Wall Mounted Type Fire Hose Reel to comply with SANS 543 Fire hose reels shall be fitted with a 30m long reinforced red rubber hose of internal diameter of 20mm nominal bore, with a 4.8mm internal diameter chromium plated brass nozzle and isolating valve connected to existing fire water feed as per Engineer's drawing no. F-5000-T00 and F-5001-T00. Fire hose reel pipes above ground shall be colour coded signal red A11.</u>				
	3.17.1 30 Meter fire hose reel <u>Dry Chemical powder fire extinguisher complying with the requirements of SANS 1093 and the extinguishing medium shall comply with the appropriate requirements of SANS 1151. Extinguishers to be hung at positions shown on the Engineer's drawings no. F-5000-T00 and F-5001-T00 complete with Meranti backing board.</u>	No.	2		
	3.17.2 4.5kg Dry Chemical Powder fire extinguisher	No.	4		
Total Carried Forward					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Total Brought Forward					
3.17.3	<u>CO2 Fire extinguisher complying with the requirements of SANS 1093 and the extinguishing medium shall comply with the appropriate requirements of SANS 1151. Extinguishers to be hung at positions shown on the Engineer's drawings no. F-5000-T00 and F-5001-T00 complete with Meranti backing board.</u> 5kg CO2 Fire extinguisher <u>FIRE ESCAPE SIGNAGE</u> <u>All fire escape signage as indicated on the Engineer's drawings no. F-5000-T00 and F-5001-T00. All signs in enclosed areas to be 190 x 190mm photo luminescent signs and all signs in external areas to be 290 x 290mm photo luminescent signs and shall comply with the relevant sections of SANS 1186. . All illuminated signs to have a 2hour battery.</u>	No.	2		
3.17.4	Type E1 <u>FIRE EQUIPMENT SIGNAGE</u> <u>All fire equipment signage as indicated on the Engineer's drawings no. F-5000-T00 and F-5001-T00. All signs in enclosed areas to be 190 x 190mm photo luminescent signs and all signs in external areas to be 290 x 290mm photo luminescent signs and shall comply with the relevant sections of SANS 1186.</u>	No.	4		
3.17.5	Type F2	No.	4		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>SECTION 3 - NEW CLASSROOM BLOCK</u>				
	<u>BILL NO 18</u>				
3.18	<u>RETAINING WALL & CONCRETE APRONS (PROVISIONAL)</u>				
3.18.1	Excavate in earth not exceeding 2m deep for trenches	m ³	17		
3.18.2	Carting away surplus material from excavations and/or stock piles on site to a dumping site located by the Contractor	m ³	9		
3.18.3	Earth filling obtained from the excavations compacted to 95% Mod AASHTO density backfilling to trenches	m ³	8		
3.18.4	Mild steel rod reinforcement of bars not exceeding 10mm diameter bars	t	2		
3.18.5	Loffelstein Geolock 400 or equal approved precast concrete interlocking planter blocks finished smooth on exposed surfaces: Retaining structures with stepped face and curves set on 550x300mm high concrete base (included), set as required to suit slopes, of 1200x450x1000mm high type U400 Loffelstein interlocking retaining blocks laid in U14 Geotextile with horizontal bed joints to 65 degree slope, including 80mm Diameter NETLON pipe (included), 300mm loose stone and an average of 600mm thick the blocks and fill the blocks with garden soil lightly tamped as the work proceeds as per engineer	m ²	68		
	CONCRETE APRONS				
3.18.6	Excavation in earth not exceeding 2m deep				
3.18.7	Reduced levels under floors	m ³	60		
3.18.8	Filling of G5 material supplied by contractor compacted to 95% Mod AASHTO density	m ³	36		
	CONCRETE & REINFORCEMENT				
3.18.9	25MPa/19mm concrete reinforced concrete cast on/in formwork	m ³	14		
3.18.10	Finishing top surfaces of concrete smooth with a wood float to a non-slip surface	m ²	144		
	FORMWORK				
3.18.11	Edges, risers, ends and reveals not exceeding 300mm high or	m ²	72		
	REINFORCEMENT				
3.18.12	Type 193 fabric reinforcement in concrete surface beds, etc (under Aprons)	m ²	144		
	WATERPROOFING				
3.18.13	One layer of 250 micron "Consol Plastics Gunplas USB Green"	m ²	144		
Total Carried to Summary of Section					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>SECTION 3 - NEW CLASSROOM BLOCK</u>				
	<u>SUMMARY OF SECTION</u>				
3.1	Earthworks (Provisional)				
3.2	Concrete, Formwork and Reinforcement (Provisional)				
3.3	Masonry (Provisional)				
3.4	Waterproofing (Provisional)				
3.5	Carpentry and Joinery (Provisional)				
3.6	Ceilings, Partitions and Access Flooring (Provisional)				
3.7	Roof Coverings, etc. (Provisional)				
3.8	Ironmongery (Provisional)				
3.9	Structural Steelwork (Provisional)				
3.10	Metalwork (Provisional)				
3.11	Plastering (Provisional)				
3.12	Tiling (Provisional)				
3.13	Rainwater Goods (Provisional)				
3.14	Glazing (Provisional)				
3.15	Paintwork (Provisional)				
3.16	Electrical (Provisional)				
3.17	Fire Protection (Provisional)				
3.18	Retaining Wall (Provisional)				
Total Carried to Final Summary					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>SECTION 4 - PROVISIONAL SUMS</u>				
4.1	<u>SPECIALIST SERVICES</u>				
4.1.1	(a) Geotechnical Investigation	PS	1	R 100 000,00	R 100 000,00
4.1.2	(b) Environmental Impact Assessment (EIA)	PS	1	R 100 000,00	R 100 000,00
4.1.3	(c) Contractor's Mark-Up for Item 4.1.1 to 4.1.2 above	%	R 200 000,00		
4.2	<u>QUALITY CONTROL</u>				
4.2.1	(a) Quality Control Testing as direct by the Engineer on Site	PS	1	R 50 000,00	R 50 000,00
4.2.2	(b) Contractor's Mark-Up for Item 4.2.1 above	%	R 50 000,00		
4.3	<u>DAYWORKS</u>				
4.3.1	(a) Labourers	PS	1	R 25 000,00	R 25 000,00
4.3.2	(b) Tools and Plant	PS	1	R 50 000,00	R 50 000,00
4.3.3	(c) Material	PS	1	R 100 000,00	R 100 000,00
4.3.4	(d) Contractor's Mark-Up for Item 4.3.1 to 4.3.3 above	%	R 175 000,00		
4.3	<u>SITE MONITORING</u>				
4.3.1	(a) Level 3: Full-Time Site Monitoring, including Travelling and Accommodation	PS	1	R 80 000,00	R 80 000,00
4.3.2	(b) Engineers Office, complete with desks, chairs, filing cabinet, printer, etc.	PS	1	R 150 000,00	R 150 000,00
4.3.3	(c) Contractor's Mark-Up for Item 4.3.1 to 4.3.2 above	%	R 230 000,00		
4.5	<u>SKILLS TRANSFER REQUIREMENT</u>				
4.5.1	(a) Skills Transfer Monitorin g by Contractor	PS	1	R 120 000,00	R 120 000,00
4.5.2	(b) Contractor's Mark-Up for Item 4.5.1 above	%	R 120 000,00		
Total Carried to Final Summary					

FINAL SUMMARY: PHASE 1		
SECTION	DESCRIPTION	AMOUNT
1	Preliminaries	
2	New Changerooms / Ablutions	
3	New Classroom Block	
4	Provisional Sums	
A1	Sub-Total A	
A2	Add: Contingency (10%)	
B1	Sub-Total B	
B2	Add: VAT (15%)	
C	Total Carried to Form of Offer	