

Item No	Quantity	Rate	Amount
<p><b><u>SECTION NO. 1</u></b> <b><u>PRELIMINARY AND GENERAL</u></b></p> <p><b><u>BILL NO. 1 : PRELIMINARY AND GENERAL</u></b></p> <p><b><u>NOTES TO PRELIMINARIES</u></b></p> <p><b><u>1.0 These Preliminaries comprise the following:</u></b></p> <p><b><u>1.1 Part A - The JBCC Series 2000 Series Edition 4.1 Code 2101 March 2005 Principal Building Agreement as amended by these Bills of Quantities.</u></b></p> <p><b><u>1.2 Part B - The ASAQS Preliminaries May 2005 as amended by these Bills of Quantities.</u></b></p> <p><b><u>1.3 Part C - Additional Preliminaries to meet the particular circumstances of this project</u></b></p> <p><b><u>2.0 Where references are made to clauses in any of the above sections, they will be identified by the prefix A, B or C followed by the clause number.</u></b></p> <p><b><u>3.0 Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof. These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not applicable to this contract, such modifications / corrections or additions as are necessary, are given as far as possible under each relevant clause heading. Additional preliminary clauses are contained in Part C hereof.</u></b></p> <p><b><u>4.0 No claim whatsoever shall be entertained in respect of errors or omissions in pricing due to brevity of descriptions of items in these bills of quantities which are fully described when read in conjunction with the relevant clauses of the said Preliminaries and Preambles.</u></b></p> <p><b><u>5.0 The tenderer shall allow opposite each of the clauses whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out herein.</u></b></p>			
	Carried Forward	R	
<p>Section No. 1 Bill No. 1 PRELIMINARY AND GENERAL</p>			

<b>Brought Forward</b>		R	
<p><u>Only priced items will be considered in respect of any adjustment of this section. Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the tenderer's omission to price any item will be entertained.</u></p> <p><u>6.0 Where modifications or amendments as described are made, such modifications and/or amendments shall supersede any conflicting provision in the relevant clauses of the Principal Building Agreement or the Preliminaries and the tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.</u></p> <p><u>7.0 Any item not applicable to this contract is marked N/A.</u></p> <p><b><u>PART A - PRINCIPAL BUILDING AGREEMENT</u></b></p> <p><b><u>DEFINITIONS</u></b></p>			
1	<p>CLAUSE 1.0 : DEFINITIONS AND INTERPRETATION</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><b><u>OBJECTIVE AND PREPARATION</u></b></p>	Item	
2	<p>CLAUSE 2.0 : OFFER, ACCEPTANCE AND PERFORMANCE OBLIGATIONS</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><b><u>PREPARATION</u></b></p>	Item	
3	<p>CLAUSE 3.0 : DOCUMENTS</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p>	Item	
4	<p>CLAUSE 4.0 : DESIGN RESPONSIBILITY</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p>	Item	
5	<p>CLAUSE 5.0 : EMPLOYER'S AGENTS</p>	Item	
<b>Carried Forward</b>		R	
<p>Section No. 1 Bill No. 1 PRELIMINARY AND GENERAL</p>			

Brought Forward	R
<p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>Clause 5.3.2 is amended by the addition of the following to the end thereof :</u></p> <p><u>The authority of the principal agent to issue contract instructions or to perform duties as may be required for the relevant aspects of the works is delegated to the other agents as follows :-</u></p> <p><b><u>1. ARCHITECT</u></b></p> <p><u>The architect is responsible for the architectural design, functional design and quality control. Without derogating from the generality thereof, the Architect shall perform the following specific functions and duties:-</u></p> <p><u>1.1 Give opinion on aspects of the works which are not in accordance with the agreement.</u></p> <p><u>1.2 Supply the specified number of drawings.</u></p> <p><u>1.3 Issue instructions if bills of quantities/lump sum document are to be used as a specification.</u></p> <p><u>1.4 Be responsible for the design of the works.</u></p> <p><u>1.5 Be responsible for co-ordination of design elements</u></p> <p><u>1.6 Receive, co-ordinate and accept design documentation and design undertaken by nominated or selected subcontractors.</u></p> <p><u>1.7 Issue contract instructions to the contractor regarding:-</u></p> <p><u>1.7.1 Alteration to design, quality or quantity of the works provided that such contract instructions shall not substantially change the scope of the works.</u></p> <p><u>1.7.2 Removal of any materials and goods from the site and the substitution of any other materials and goods.</u></p>	
Carried Forward	R
<p>Section No. 1 Bill No. 1 PRELIMINARY AND GENERAL</p>	

Brought Forward	R
<u>1.7.3 Removal or re-execution of any work.</u>	
<u>1.7.4 Opening up of work for inspection</u>	
<u>1.7.5 Testing of work and materials and goods</u>	
<u>1.7.6 Protection of the works.</u>	
<u>1.7.7 Making good physical loss and repairing damage to the works.</u>	
<u>1.7.8 The list for practical completion, works completion, final completion and defects.</u>	
<u>1.7.9 Compliance with acts of parliament, regulations and bylaws.</u>	
<u>1.8 Witness the handing over to the contractor of pegs, beacons and datum level.</u>	
<u>1.9 Define levels and provide the contractor with the necessary information to set out the works.</u>	
<u>1.10 Inspect the work from time to time and give the contractor interpretation and guidance on the standard and state of completion required for practical completion.</u>	
<u>1.11 Inspect the works for practical completion.</u>	
<u>1.12 Issue practical completion list and reinspect upon request of contractor.</u>	
<u>1.13 Issue works completion list.</u>	
<u>1.14 Inspect the works for works completion upon request of contractor.</u>	
<u>1.15 Inspect the works at the end of the defects liability period.</u>	
<u>1.16 Issue a defects list and reinspect upon request of the contractor.</u>	
<u>2. QUANTITY SURVEYOR</u>	
Carried Forward	R
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Brought Forward	R
<p><u>The quantity surveyor is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions. Without derogating from the generality thereof, the quantity surveyor shall perform the following specific functions and duties :-</u></p> <p><u>2.1 Consult with the contractor in correction of rates for errors and discrepancies.</u></p> <p><u>2.2 Prepare the monthly recovery statement.</u></p> <p><u>2.3 Complete the schedule and arrange for the signing of the agreement.</u></p> <p><u>2.4 Hold a signed set of contract documents.</u></p> <p><u>2.5 Supply the specified number of unpriced bills of quantities.</u></p> <p><u>2.6 Identify any changes to the standard JBCC documentation in the schedule and determine any loss and expense caused to the contractor caused by non-disclosure thereof.</u></p> <p><u>2.7 Deal with amounts paid by the contractor to authorities having jurisdiction over the works.</u></p> <p><u>2.8 Measure and value the making good of physical loss or damage.</u></p> <p><u>2.9 Issue contract instructions to the contractor regarding:-</u></p> <p><u>2.9.1 Rectification of discrepancies, errors in description or omissions in contract documents.</u></p> <p><u>2.9.2 Furnishing proof of payment to nominated and selected subcontractors.</u></p> <p><u>2.9.3 Budgetary allowances and work executed by the contractor thereunder.</u></p> <p><u>2.9.4 Contingency and other monetary provisions included in the contract sum.</u></p>	
Carried Forward	R
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<b>Brought Forward</b>	<b>R</b>
<u>2.10 Prepare nominated and selected subcontract tender and contract documents.</u>	
<u>2.11 Receive proof from the contractor that the contractors payment obligations have been met in respect of nominated and selected subcontractors.</u>	
<u>2.12 Act on employers instructions to pay nominated and selected subcontractors directly.</u>	
<u>2.13 Adjustment of the contract value in respect of a revision to the date of practical completion.</u>	
<u>2.14 Calculate penalties for non-completion.</u>	
<u>2.15 Valuation of payment claims for payment certificates.</u>	
<u>2.16 Authorise or otherwise the removal of materials or goods from site by the contractor where these have been paid for.</u>	
<u>2.17 Calculate compensatory and penalty interest due to the parties.</u>	
<u>2.18 With each payment certificate issue:-</u>	
<u>2.18.1 Details of amounts certified for each nominated or selected subcontractor</u>	
<u>2.18.2 Notification to each nominated and selected subcontractor showing the formulation of subcontract amounts included in payment certificates.</u>	
<u>2.18.3 A statement to the employer and contractor showing the total amount certified and all adjustment amounts.</u>	
<u>2.19 Determine the value of adjustments to the contract value.</u>	
<u>2.20 Receive from the contractor details of expense and loss claims and assess such claims.</u>	
<b>Carried Forward</b>	<b>R</b>
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Brought Forward	R
<u>2.21 Prepare the relevant information required for the issue of the recovery statement with payment certificate.</u>	
<u>2.22 Prepare the final account and submit to the contractor.</u>	
<b><u>3. CIVIL AND STRUCTURAL ENGINEER</u></b>	
<u>The civil and structural engineer is responsible for all aspects of civil and structural engineering design and quality control. Without derogating from the generality thereof, the civil and structural engineer will perform the following specific functions and duties in respect of civil and structural engineering aspects of the works:-</u>	
<u>3.1 Give opinion on aspects of the works which are not in accordance with the agreement.</u>	
<u>3.2 Supply the specified number of drawings.</u>	
<u>3.3 Issue instructions if bills of quantities/lump sum document are to be used as a specification.</u>	
<u>3.4 Be responsible for the design of the works.</u>	
<u>3.5 Receive and accept design documentation and design undertaken by nominated or selected subcontractors.</u>	
<u>3.6 Issue contract instructions to the contractor regarding:-</u>	
<u>3.6.1 Alteration to design, quality or quantity of the works provided that such contract instructions shall not substantially change the scope of the works.</u>	
<u>3.6.2 Removal of any materials and goods from the site and the substitution of any materials and goods therefore.</u>	
<u>3.6.3 Removal or re-execution of any work.</u>	
<u>3.6.4 Opening up of work for inspection</u>	
<u>3.6.5 Testing of work and materials and goods.</u>	
Carried Forward	R
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Brought Forward	R
<u>3.6.6 Protection of works.</u>	
<u>3.6.7 Making good physical loss and repairing damage to the works.</u>	
<u>3.6.8 Compliance with acts of parliament, regulations and bylaws.</u>	
<u>3.7 Define levels and provide the contractor with the necessary information to set out the works.</u>	
<u>3.8 Inspect the work from time to time and give the contractor interpretation and guidance on the standard and state of completion required for practical completion.</u>	
<u>3.9 Inspect the works for practical completion.</u>	
<u>3.10 Inspect the works for works completion upon request of contractor.</u>	
<u>3.11 Inspect the works at the end of the defect liability period.</u>	
<b><u>4. ELECTRICAL ENGINEER</u></b>	
<u>The electrical engineer is responsible for all aspects of electrical engineering design and quality control. Without derogating from the generality thereof, the electrical engineer will perform the following specific functions and duties in respect of electrical aspects of the works:-</u>	
<u>4.1 Give opinion on aspects of the works which are not in accordance with the agreement.</u>	
<u>4.2 Supply the specified number of drawings.</u>	
<u>4.3 Issue instructions if bills of quantities/lump sum document are to be used as a specification.</u>	
<u>4.4 Be responsible for the design of the works.</u>	
<u>4.5 Receive and accept design documentation and design undertaken by nominated or selected subcontractors.</u>	
Carried Forward	R
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Brought Forward	R
<p><u>4.6 Issue contract instructions to the contractor regarding:-</u></p> <p><u>4.6.1 Alteration to design, quality or quantity of the works provided that such contract instructions shall not substantially change the scope of the works.</u></p> <p><u>4.6.2 Removal of any materials and goods from the site and the substitution of any materials and goods therefore.</u></p> <p><u>4.6.3 Removal or re-execution of any work.</u></p> <p><u>4.6.4 Opening up of work for inspection</u></p> <p><u>4.6.5 Testing and commissioning of work, materials and goods.</u></p> <p><u>4.6.6 Protection of works.</u></p> <p><u>4.6.7 Making good physical loss and repairing damage to the works.</u></p> <p><u>4.6.8 Compliance with acts of parliament, regulations and bylaws.</u></p> <p><u>4.7 Define levels and provide the contractor with the necessary information to set out the works.</u></p> <p><u>4.8 Inspect the work from time to time and give the contractor interpretation and guidance on the standard and state of completion required for practical completion.</u></p> <p><u>4.9 Inspect the works for practical completion.</u></p> <p><u>4.10 Inspect the works for works completion upon request of contractor.</u></p> <p><u>4.11 Inspect the works at the end of the defect liability period.</u></p> <p><u>4.12 Measure and value the making good of physical loss or damage.</u></p> <p><b><u>5.0 HEALTH AND SAFETY CONSULTANT</u></b></p>	
Carried Forward	R
<p>Section No. 1 Bill No. 1 PRELIMINARY AND GENERAL</p>	

	Brought Forward		R
	<p><u>The health and safety consultant is responsible for all aspects of health and safety. Without derogating from the generality thereof, the health and safety consultant will perform the following specific functions and duties in respect of health and safety aspects of the works:-</u></p> <p><u>5.1 Act as the clients (employers) agent in terms of the Occupational Health and Safety Act, Act 85 of 1993 Construction Regulations.</u></p> <p><u>5.2 Prepare and update the health and safety specification for the works.</u></p> <p><u>5.3 Agree with the contractor the health and safety plan for the works.</u></p> <p><u>5.4 Carry out regular audits to ensure adherence to the safety plan, and compliance with the Act and Regulations.</u></p> <p><u>5.5 Check the maintenance of all records, registers and lists in terms of the requirements of the Act and the health and safety plan and specification.</u></p> <p><u>5.6 Issue contract instructions to the contractor regarding:-</u></p> <p><u>5.6.1 Compliance with Acts of Parliament, regulations and bylaws</u></p> <p><u>5.6.2 Compliance with the health and safety plan and specification for the works including halting of the works where imminent danger is apparent.</u></p>		
6	<p>CLAUSE 6.0 : SITE REPRESENTATIVE</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>Clause 6.0 is amended by the addition of the following :</u></p>	Item	
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<p style="text-align: center;"><b>Brought Forward</b></p> <p><u>The names and CV's of the contractor's proposed management team shall be submitted to the principal agent prior to commencement on site and, after the principal agent's agreement on the composition and competence thereof has been obtained, no changes shall be made nor shall any member of the said team be removed from the project while remaining in the employ of the contractor, without the principal agent's prior written approval.</u></p>		R	
<p>7 CLAUSE 7.0 : COMPLIANCE WITH REGULATIONS</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>Clause 7.0 is amended by the addition of the following clauses :</u></p> <p><u>7.3 The employer reserves the right to pay direct (i.e. not through the contractor) for all or any permanent connections to local or other authority services, for which provisional amounts have been included within the selected sub-contract bill / section hereof. In the event of the employer paying direct for these charges, the contractor will not be entitled to a ten percent (10%) mark-up in terms of Clause 32.4. All such provisional amounts included in the contract sum will be omitted.</u></p> <p><u>7.4 Health and Safety Specification - the contractor shall comply with the requirements of the Occupational Health &amp; Safety Act (85/1993) and the July 2003 Construction Regulations. The employer will appoint an independent safety officer who will, in consultation with the contractor, draw up and agree the construction phase health and safety plan / specification. This health and safety specification will form an integral part of the principal contract document and will be copied to all subcontractors for inclusion, as modified, within their respective scope of works.</u></p>	Item		
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1 Bill No. 1 PRELIMINARY AND GENERAL</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><u>"The Contractor acknowledges that the undertaking given in this clause constitutes an agreement in terms of Section 37 (20 of the OHS Act and its regulations, whereby all responsibility for health and safety matters relating to the services performed under this agreement shall be the obligation of the Service Provider. The Contractor shall comply with all the laws and regulations which may be relevant to the services performed under this agreement, it being recorded that the presence of the Contractor's employees, representatives, authorised sub-contractors, machinery, plant equipment and vehicles at the employer's premises shall always be subject to the provisions of the OHS Act and of all other relevant legislation, codes of practice, directives, health and safety rules and security measures and will adhere to and obey all directives and instructions given by the employer in this regard".</u></p> <p><b><u>HEALTH AND SAFETY</u></b></p> <p><b><u>COMPILATION AND REVIEW OF HEALTH AND SAFETY PLAN</u></b></p> <p><b><u>IMPLEMENTATION OF HEALTH AND SAFETY PLAN</u></b></p> <p><b><u>PHASE SAFETY, HEALTH, ENVIROMENTAL AND MANAGEMNT PLAN AND IMPLIMENTATION</u></b></p> <p><b><u>ADMINISTRATION</u></b></p> <p><b><u>NAME BOARDS</u></b></p> <p><b><u>ACCESS</u></b></p> <p><b><u>REMOVAL OF SITE ESTABLISHMENT</u></b></p> <p><b><u>MEDICALS</u></b></p> <p><b><u>PRE-EMPLOYMENT MEDICALS</u></b></p> <p><b><u>PSYCHOLOGICAL MEDICALS FOR WORKING HEIGHTS</u></b></p> <p><b><u>PSYCHOLOGICAL MEDICALS FOR WORKING MOTORIZED EQUIPMENT AND CONSTRUCTION MACHINERY</u></b></p> <p><b><u>MEDICAL FOR WORKING ASBESTOS</u></b></p> <p><b><u>ROUTINE MEDICAL AS PER REQUIREMENT OF JOB ACTIVITIES</u></b></p> <p><b><u>RE-MEDICALS- YEARLY ( 12 MONTHS AFTER COMMENCEMENT)</u></b></p> <p><b><u>EXIT MEDICALS</u></b></p>	<p style="text-align: center;">R</p>
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1 Bill No. 1 PRELIMINARY AND GENERAL</p>	<p style="text-align: center;">R</p>

<b>Brought Forward</b>	<b>R</b>
<b><u>PERSONAL PROTECTIVE EQUIPMENT</u></b>	
<b><u>OVERALLS (BLUE) WITH REFLECTORS</u></b>	
<b><u>SPECIALISED OVERALLS (CHEMICALS ETC.)</u></b>	
<b><u>HARD HATS AND SAFETY GLASSES (HARD HATS WITH A6 STICKERS)</u></b>	
<b><u>SAFETY BOOTS/SHOES</u></b>	
<b><u>GLOVES</u></b>	
<b><u>BREATHING APPARATUS(CONFINED SPACE, ASBESTOS &amp; CHEMICALS)</u></b>	
<b><u>TESTING EQUIPMENT ( OXYGEN MEASURING, NOISE LIGHTING , LIGHTNING AND WIND CENTRALIZED)</u></b>	
<b><u>ORANGE STAR NETTING – 1.2 M</u></b>	
<b><u>ORANGE PLASTIC AND ROAD CONES</u></b>	
<b><u>PLASTIC REINFORCE CAPS(RED BAR)</u></b>	
<b><u>DUST MASKS</u></b>	
<b><u>EAR PLUGS / EAR MUFFS</u></b>	
<b><u>FIRE FIGHTING</u></b>	
<b><u>FIRE EXTINGUISHERS – 9 KG</u></b>	
<b><u>FIRE EXTINGUISHERS – 4.5 KG</u></b>	
<b><u>TRAINING</u></b>	
<b><u>SURVEYS</u></b>	
<b><u>OTHER - DRIP TRAYS</u></b>	
<b><u>HEALTH AND SAFETY PERSONNEL</u></b>	
<b><u>SAFETY MANAGERS (50%)</u></b>	
<b><u>SAFETY OFFICER</u></b>	
<b><u>FULLTIME SAFETY REPRESENTATIVE IF REQUIRED</u></b>	
<b><u>FIRE WATCHERS</u></b>	
<b><u>FIRST AIDERS</u></b>	
<b><u>FLAG PERSON</u></b>	
<b><u>INTERNAL AUDITORS COSTS</u></b>	
<b><u>OCCUPATIONAL HYGIENIST</u></b>	
<b><u>FIRE WATCHERS</u></b>	
<b><u>FIRST AIDERS</u></b>	
<b><u>INTERNAL AUDITORS COSTS</u></b>	
<b><u>OCCUPATIONAL HYGIENIST</u></b>	
<b>Carried Forward</b>	<b>R</b>
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<p style="text-align: right;">Brought Forward</p> <p><u>FIRST AID</u></p> <p><u>FIRST AID BOXES</u>  <u>RESCUE EQUIPMENT AND STRETCHERS</u>  <u>REPLENISHMENT OF BOXES AND OTHER</u>  <u>SUPPLIES</u>  <u>HAZCHEM SPILL KITS (HAZARDOUS CHEMICAL</u>  <u>KITS)</u></p> <p><u>TRAINING</u></p> <p><u>SHE REPRESENTATIVE</u>  <u>SUPERVISOR A2 ( NO COST)</u>  <u>MANAGEMENT / SAFETY OFFICER A3 (NO COST)</u>  <u>FIRST AID LEVEL 1-5</u>  <u>FIRE FIGHTING</u>  <u>LEGAL LIABILITY</u>  <u>HIRAC (HAZARD IDENTIFICATION AND RISK</u>  <u>ASSESSMENT COURSE)</u>  <u>INCIDENT INVESTIGATION (R-CAT)</u>  <u>SCAFFOLDING INSPECTOR</u>  <u>SCAFFOLDING ERECTOR</u>  <u>BASIC WORKING AT HEIGHTS</u>  <u>RESCUE AT HEIGHTS</u></p> <p><u>SIGNAGE</u>  <u>ALL SIGNAGE AS REQUIRED BY LAW:</u>  <u>REGULATORY, MANDATORY, WARNING AND</u>  <u>INFORMATION</u>  <u>POSTERS FOR AWARENESS</u>  <u>ADMIN</u></p> <p><u>ELECTRICAL</u>  <u>LOCKS REQUIRED FOR LOCKOUTS</u>  <u>TAGS</u>  <u>PERMIT BOOKS</u>  <u>CALLIPERS</u>  <u>KEY SAFES</u></p>	<p style="text-align: right;">R</p>
<p style="text-align: right;">Carried Forward</p> <p>Section No. 1  Bill No. 1  PRELIMINARY AND GENERAL</p>	<p style="text-align: right;">R</p>

	<b>Brought Forward</b>		<b>R</b>
	<u><b>FALL PREVENTION / PROTECTION</b></u>  <u><b>SAFETY HARNESSES WITH DOUBLE LANYARDS</b></u> <u><b>LANYARD EXTENDERS</b></u> <u><b>SCAFFOLD HOOKS</b></u> <u><b>LIFELINES AND VERTICAL FALL ARREST</b></u> <u><b>SYSTEMS</b></u> <u><b>SCAFFOLDING – MATERIAL ERECTION AND</b></u> <u><b>INSPECTION (ESTIMATE FOR PROJECT</b></u> <u><b>TEMPORARY AND RAILING MATERIAL AND KICK</b></u> <u><b>FLATS</b></u> <u><b>INSPECTION FOR APPROVAL OF EQUIPMENT (AIA)</b></u> <u><b>CHIN STRAPS / TOOL BAGS / WRIST STRAPS</b></u> <u><b>OTHER</b></u>  <u><b>VEHICLE / MOBILE EQUIPMENT UPGRADE FOR</b></u> <u><b>USE ON SITE</b></u>  <u><b>RAISED LIGHTS</b></u> <u><b>ROTATING ORANGE LIGHT</b></u> <u><b>FLAG AS PER PROCEDURE</b></u> <u><b>FIRE EXTINGUISHER - 4.5 KG</b></u> <u><b>FIRST-AID BOX</b></u> <u><b>REFLECTOR TAPE</b></u> <u><b>DANGER TAPE</b></u> <u><b>SIGNAGE</b></u> <u><b>ROLL OVER AND FALL OVER PROTECTION</b></u> <u><b>SAFETY BELTS FOR ALL PASSENGERS (LDV)</b></u> <u><b>WHEEL CHOKES</b></u> <u><b>TRIANGLE SIGN (PER CAR / VEHICLE)</b></u> <u><b>PLANT HIRE.</b></u>		
8	CLAUSE 8.0 : WORKS RISK  <u><b>Fixed .R .....; Time .R.....; Value .R.....</b></u>	Item	
9	CLAUSE 9.0 : INDEMNITIES  <u><b>Fixed .R .....; Time .R.....; Value .R.....</b></u>	Item	
10	CLAUSE 10.0 : WORKS INSURANCES  <u><b>Fixed .R .....; Time .R.....; Value .R.....</b></u>  <u><b>Clause 10.1 is amended by the addition of the</b></u> <u><b>following:</b></u>	Item	
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	<b>Brought Forward</b>		R	
	<p><u>The contractor shall effect, as a minimum, the following insurances:</u></p> <p><u>a) Insurance to comply with the provisions of the Compensation for Occupational Injuries and Diseases Act 1993.</u></p> <p><u>b) Employers Liability Insurance for no less than R5 million</u></p> <p><u>c) All risks cover on all construction plant and allied equipment including site huts and temporary accommodation including plant and machinery hired, leased or loaned. The Employers interests are to be noted.</u></p> <p><u>Furthermore the contractor shall effect and maintain for the duration of the contract Motor Vehicle Liability Insurance company:</u></p> <p><u>d) Insurance in accordance with the Multilateral Motor Vehicle Accident fund No 93 of 1989 as amended.</u></p> <p><u>e) Balance of Third Party Motor Risks including passenger Liability.</u></p>			
11	<p>CLAUSE 11.0 : LIABILITY INSURANCES</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p>	Item		
12	<p>CLAUSE 12.0 : EFFECTING INSURANCES</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>Where called upon to do so, the party/ies responsible for effecting the various insurances, shall complete the relevant "Declaration of Insurance"</u></p>	Item		
13	<p>CLAUSE 13.0 : NO CLAUSE</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p>	Item		
14	<p>CLAUSE 14.0 : SECURITY</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p>	Item		
	<b>Carried Forward</b>		R	
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	<b>Brought Forward</b>		<b>R</b>	
	<p><u>Clause 14.0 is amended by the addition of the following clause :</u></p> <p><u>14.9 In the event that the value of the works (excluding adjustments in terms of the contract price adjustment provisions) were to increase during the course of the contract by an amount of 15% or more of the contract sum, upon written request from the principal agent, the contractor shall immediately arrange to have the construction guarantee guaranteed sum adjusted to reflect the increased contract value. The cost of obtaining the adjusted guarantee, if any, will be dealt with in terms of Clause 32.0.</u></p> <p><b><u>EXECUTION</u></b></p>			
15	<p>CLAUSE 15.0 : PREPARATION FOR AND EXECUTION OF THE WORKS</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p>	Item		
16	<p>CLAUSE 16.0 : ACCESS TO THE WORKS</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>The contractor shall be informed of any limitations or restrictions on working space, any restrictions imposed by existing buildings, any restrictions imposed by any authorities and any limitations on the availability of water, power and sewerage facilities.</u></p> <p><u>Access to the works shall be strictly confined to that permitted by the principal agent. The contractor shall be responsible for maintaining such access and reinstating same upon completion.</u></p> <p><u>No claims for extras arising from the contractor having failed to comply with this clause will be entertained.</u></p>	Item		
17	<p>CLAUSE 17.0 : CONTRACT INSTRUCTIONS</p> <p><u>Clause 17.0 is amended by adding Clause 17.6</u></p>	Item		
	<b>Carried Forward</b>		<b>R</b>	
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	<b>Brought Forward</b>		R	
	<p><u>Contract Instructions are to be recorded in a Site Instruction Book which is to be maintained on site by the contractor. This shall be carbon triplicate book numbered consecutively which must be used only for the issue of contract instructions. Copies of all contract instructions issued are to be submitted to the Architect and the Quantity Surveyor within 7 days.</u></p> <p><u>Site Instructions to the contractor and subcontractors may be issued by the Architect and Engineer. These instructions will become contract instructions only upon counter signature and rectification if required by the Principal Agent.</u></p> <p><u>Where prices are submitted by the contractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim certificate it is hereby agreed that there is to be no presumption of acceptance. Should the Employer wish to accept any such prices prior to the issue of the final certificate, they will do so in writing.</u></p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p>			
18	<p>CLAUSE 18.0 : SETTING OUT OF THE WORKS</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p>	Item		
19	<p>CLAUSE 19.0 : ASSIGNMENT</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p>	Item		
20	<p>CLAUSE 20.0 : NOMINATED SUBCONTRACTORS</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p>	Item		
21	<p>CLAUSE 21.0 : SELECTED SUBCONTRACTORS</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p>	Item		
22	<p>CLAUSE 22.0 : EMPLOYER'S DIRECT CONTRACTORS</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p>	Item		
	<b>Carried Forward</b>		R	
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	<b>Brought Forward</b>		R	
	<u>Clause 22.0 is amended by the addition of the following clause :</u>			
	<u>22.6 Refer to Clause C4 Direct Contracts for further details.</u>			
23	CLAUSE 23.0 : CONTRACTOR'S DOMESTIC SUBCONTRACTORS  <u>Fixed .R .....; Time .R.....; Value .R.....</u>  <b><u>COMPLETION</u></b>	Item		
24	CLAUSE 24.0 : PRACTICAL COMPLETION  <u>Fixed .R .....; Time .R.....; Value .R.....</u>	Item		
25	CLAUSE 25.0 : WORKS COMPLETION  <u>Fixed .R .....; Time .R.....; Value .R.....</u>	Item		
26	CLAUSE 26.0 : FINAL COMPLETION  <u>Fixed .R .....; Time .R.....; Value .R.....</u>	Item		
27	CLAUSE 27.0 : LATENT DEFECTS LIABILITY PERIOD  <u>Fixed .R .....; Time .R.....; Value .R.....</u>	Item		
28	CLAUSE 28.0 : SECTIONAL COMPLETION  <u>Fixed .R .....; Time .R.....; Value .R.....</u>	Item		
29	CLAUSE 29.0 : REVISION OF DATE FOR PRACTICAL COMPLETION  <u>Fixed .R .....; Time .R.....; Value .R.....</u>	Item		
30	CLAUSE 30.0 : PENALTY FOR NON-COMPLETION  <u>Fixed .R .....; Time .R.....; Value .R.....</u>  <b><u>PAYMENT</u></b>	Item		
31	CLAUSE 31.0 : INTERIM PAYMENT TO THE CONTRACTOR	Item		
	<b>Carried Forward</b>		R	
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	Brought Forward		R
	<p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>Clause 31.0 is amended as follows :</u></p> <p><u>i) Clause 31.2 shall be amended by adding the following to the end of the first sentence " as of the 25th day of the month, by no later than the 27th day of the month".</u></p> <p><u>ii) The inclusion of materials and good stored off Site in the amount authorised for payment in terms of Clause 31.6 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the Contractor, of an approved guarantee issued by a registered commercial bank and Clause 31.6.5 is therefore not applicable.</u></p> <p><u>Notwithstanding this or any other Clause, materials and goods stored off Site, shall not be included in the amount authorised for payment.</u></p> <p><u>iii) Clause 31.9 shall be amended replacing the phrase "seven (7) calendar days" in the first sentence with the phrase " thirty (30) calendar days ".</u></p>		
32	<p>CLAUSE 32.0 : ADJUSTMENT TO THE CONTRACT VALUE</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>Clause 32.0 is amended by the addition of the following clauses:</u></p> <p><u>32.16 The Employer shall also have the right by notice via the Principal Agent to the Contractor to omit any work covered by provisional amount or prime cost items contained herein.</u></p> <p><u>The Contractor shall not be entitled to claim for any loss of mark-up or discount resultant from the omission of any provisional amount or prime cost items.</u></p>	Item	
	Carried Forward		R
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	<b>Brought Forward</b>		R	
	<p><u>32.17 The omission of work from the Agreement and the performance thereof either in terms of 32.16 and/or the performance of such work after the construction period in respect of the relevant portion of the work by direct contract by any person in terms of 32.16 shall not entitle the Contractor to any attendance, mark-up, compensation, consideration, loss or damage under this Agreement other than that contained in Clause 22.</u></p>			
33	<p>CLAUSE 33.0 : RECOVERY OF EXPENSE AND LOSS</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>Clause 33.0 is amended by the following :</u></p> <p><u>Sub-clause 33.2 shall be amended by the insertion of the words "without prejudice to any other rights that he may have", between the words "Employer" and "may".</u></p>	Item		
34	<p>CLAUSE 34.0 : FINAL ACCOUNT AND FINAL PAYMENT</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>Clause 34.0 is amended by the following:</u></p> <p><u>Clause 34.10 is amended by the deletion of the words "seven (7)" in the second line and the substitution thereof with the words "thirty (30)".</u></p>	Item		
35	<p>CLAUSE 35.0 : PAYMENT TO OTHER PARTIES</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><b><u>TERMINATION</u></b></p>	Item		
36	<p>CLAUSE 36.0 : CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>Clause 36.0 is amended by the following:</u></p> <p><u>The addition of the following :</u></p>	Item		
	<b>Carried Forward</b>		R	
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	<b>Brought Forward</b>		R	
	<b><u>36.1.3 Is placed under provisional or final liquidation or judicial management</u></b>			
37	CLAUSE 37.0 : CANCELLATION BY EMPLOYER - LOSS AND DAMAGE	Item		
	<b><u>Fixed .R .....; Time .R.....; Value .R.....</u></b>			
38	CLAUSE 38.0 : CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT	Item		
	<b><u>Fixed .R .....; Time .R.....; Value .R.....</u></b>			
39	CLAUSE 39.0 : CANCELLATION - CESSATION OF THE WORKS	Item		
	<b><u>Fixed .R .....; Time .R.....; Value .R.....</u></b>			
	<b><u>DISPUTE</u></b>			
40	CLAUSE 40.0 : DISPUTE SETTLEMENT	Item		
	<b><u>Fixed .R .....; Time .R.....; Value .R.....</u></b>			
	<b><u>SUBSTITUTE PROVISIONS</u></b>			
41	CLAUSE 41.0 : STATE CLAUSES	Item		
	<b><u>Fixed .R .....; Time .R.....; Value .R.....</u></b>			
	<b><u>CONTRACT VARIABLES</u></b>			
	<b><u>THE SCHEDULE</u></b>			
42	CLAUSE 42.0 : PRE-TENDER INFORMATION	Item		
	<b><u>Fixed .R .....; Time .R.....; Value .R.....</u></b>			
	<b><u>The preselected alternatives in the Contract Data Contractor - Employer indicate the preferences of the employer.</u></b>			
	<b><u>After consultation with the parties to the Agreement, the Contract data Contractor - Employer and such other pertinent documents as listed under item 42.4 will be updated and shall form part of this Agreement.</u></b>			
	<b>Carried Forward</b>		R	
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<p><u>Further provisions and information agreed by the parties :</u></p> <p><u>The following documents shall form part of this agreement :</u></p> <ul style="list-style-type: none"> <li>- <u>Contract drawings</u></li> <li>- <u>Standard Preambles for Trades</u></li> <li>- <u>Contract Programme</u></li> </ul> <p><u>This agreement is the entire contract between the parties regarding the matters addressed herein. No representations, terms, conditions, or warranties not contained in this agreement shall be binding on the parties. No agreement or addendum varying, adding to, deleting or terminating this agreement including this clause shall be effective unless reduced to writing and signed by the parties.</u></p> <p><u>Contracting parties</u></p> <p><u>As stipulated in the Contract Data</u></p> <p><b><u>CLAUSE 42.1 : CONTRACTING AND OTHER PARTIES</u></b></p> <p><b><u>42.1.1 Employer : Independent Development Trust (IDT) - Limpopo</u></b></p> <p><b><u>Postal address : P.O. Box 55386, Polokwane</u></b> <b><u>Code : 0700</u></b></p> <p><b><u>Tel : 015 295-0000</u></b></p> <p><b><u>Fax : 015 295-6559</u></b></p> <p><b><u>Physical address : Second Floor, IDT Building, 68 Hans van Rensburg Street, Polokwane, 0699</u></b></p> <p><b><u>42.1.2 Principal agent : Durapi Consulting (Pty) Ltd</u></b></p>	
Carried Forward	R
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<u>Physical Address : Unit One, 9 Biccard Street, Polokwane Code : 0699</u>  <u>Telephone : 015 295-9480</u>  <u>Fax : 015 295-9485</u>  <u>Email : manjith@durapi.co.za</u>  <u>42.1.3 Agent (1) : Durapi Consulting (Pty) Ltd</u>  <u>Agents Service : Project Management</u>  <u>Physical Address : Unit One, 9 Biccard Street, Polokwane Code : 0699</u>  <u>Telephone : 015 295-9480</u>  <u>Fax : 015 295-9485</u>  <u>Email : manjith@durapi.co.za</u>  <u>42.1.4 Agent (2) : A3 Architects</u>  <u>Agents Service : Architectural</u>  <u>Postal Address : Physical Address : Unit One, 9 Biccard Street, Polokwane Code : 0699</u>  <u>Telephone : +27 11 615 6742</u>  <u>Fax : 015 295-9485</u>  <u>Email : nelson@a3architects.co.za</u>  <u>42.1.5 Agent (3) : Durapi Consulting (Pty) Ltd</u>  <u>Agents Service : Quantity Surveying</u>  <u>Physical Address : Unit One, 9 Biccard Street, Polokwane Code : 0699</u>	
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<p style="text-align: right;"><b>Brought Forward</b></p> <p><u>Telephone : 015 295-9480</u></p> <p><u>Fax : 015 295-9485</u></p> <p><u>Email : manjith@durapi.co.za</u></p> <p><u>42.1.6 Agent (4) :MogaleMole Consulting Engineers</u></p> <p><u>Agents Service : Electrical and Mechanical Engineering</u></p> <p><u>Physical Address : Unit 4 Gemini Place,Rhodesdrift Street Bendor 0699</u> <u>Code : 0699</u></p> <p><u>Telephone : 015 291-297 3556</u></p> <p><u>Fax : 086 514 2484</u></p> <p><u>Email : herman@mogalemole.co.za</u></p> <p><u>42.1.7 Agent (5) : Onset Consulting</u></p> <p><u>Agents Service : Civil and Structural Engineering</u></p> <p><u>Physical Address : 1 Marabou Avenue Fauna Park Polokwane 0699</u></p> <p><u>Telephone : 018 462 0346</u></p> <p><u>Email : siyabonga@onsetengineers.co.za</u></p> <p><u>42.1.8 Agent (6) :Mhks S.H.E.R.Q Consulting</u></p> <p><u>Agents Service : Health and Safety</u></p> <p><u>Physial Address : Head Office, 18 Amadeus, Lt Gert Du Toit Streeet, Welgelegen,Polokwane,0699</u> <u>Code :</u></p> <p><u>Telephone : 076 066 4740</u> <u>Email : www.mhks.co.za</u></p> <p><u>CLAUSE 42.2 : CONTRACT DETAILS</u></p> <p><u>42.2.1 Works Description :</u></p>	<p style="text-align: right;">R</p>
<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 1 Bill No. 1 PRELIMINARY AND GENERAL</p>	<p style="text-align: right;">R</p>

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<p><u>Construction of 1 x 3 Classroom Block (3 Classrooms), 5 x 4 Classroom Block (20 Classrooms), Computer Laboratory and Library Combo, Science Laboratory, Large Administration Block, 24 Waterborne Toilets and Refurbishment of 1 x 3 Classroom Block (3 Classrooms), 1 x 4 Classroom Block (4 Classrooms), Refurbishment of waterborne toilets, Conversion of a Building to a Nutrition Centre, Demolition of existing 15 Classrooms and Mini Administration Block, Steel Palisade Fence, Test and upgrade existing borehole and Supply 70kl water storage tanks and stands. 15 Covered and 10 Uncovered Parking Bays</u></p> <p><u>42.2.2 Site description :</u></p> <p><u>Ndzalama Primary School, Giyani Municipality</u></p> <p><u>42.2.3 Works or installations by Direct Contractors :</u></p> <p><u>Not Applicable</u></p> <p><u>42.2.4 Specific options that are applicable to a State Organ only :</u></p> <p><u>Where so :</u></p> <p><u>(1) Interest Rate Legislation</u> <u>Not Applicable</u></p> <p><u>(2) Lateral support insurance to be effected by the Contractor</u> <u>Not Applicable</u></p> <p><u>(3) Payment will be made for materials and goods</u> <u>No</u></p> <p><u>(4) Dispute Resolution by litigation</u> <u>No</u></p> <p><u>(5) Extended defects liability period applicable to the following elements</u> <u>Electrical installation - 12 calendar months</u></p> <p><u>42.2.5 Possession of the site is to be given on</u> <u>To be advised</u></p>	
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<p><u>42.2.6 Period for the commencement of the works after the contractor takes possession of the site</u>  <u>Immediate, subject to agreement with the principal agent</u></p> <p><u>42.2.7 For the Works as a whole :</u></p> <p><u>The date for Practical Completion and the penalty per calendar day</u>  <u>To be advised</u>  <u>R5,000.00 per calendar day</u></p> <p><u>42.2.8 For the Works in Sections :</u>  <u>The date for Practical Completion and the penalty per calendar day</u>  <u>Not Applicable</u></p> <p><u>42.2.9 The Law applicable to this Agreement shall be that of</u>  <u>Republic of South Africa</u></p> <p><u>CLAUSE 42.3 : INSURANCES</u></p> <p><u>42.3.1 Contract Works insurance to be effected by Contractor</u>  <u>For the Sum of</u>  <u>Contract Value plus ten percent (+ 10%)</u>  <u>With a deductible of</u>  <u>Zero comma one percent (0,1%)</u></p> <p><u>42.3.2 Supplementary insurance is required</u>  <u>Not Applicable</u></p> <p><u>42.3.3 Public Liability insurance to be effected by Contractor</u>  <u>For the Sum of</u>  <u>Ten Million Rand (R 10,000,000.00)</u>  <u>With a deductible of</u>  <u>Zero comma one percent (0,1%)</u></p> <p><u>42.3.4 Support Insurance to be effected by the Employer</u></p> <p><u>For the Sum of</u>  <u>Not Applicable</u>  <u>With a deductible of</u>  <u>Not Applicable</u></p>	
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<b><u>CLAUSE 42.4 : DOCUMENTS</u></b>	
<b><u>42.4.1 Waiver of the Contractor's lien or right of continuing possession is required</u></b>	
<b><u>Yes</u></b>	
<b><u>42.4.2 Construction document copies to be supplied to the Contractor Free of charge</u></b>	
<b><u>No of Three</u></b>	
<b><u>42.4.3 Bills of Quantities / Lump Sum document schedule of rates drawn up in accordance with Standard System of Measuring Building Work 2013 Sixth Edition (Second Revision)</u></b>	
<b><u>42.4.4 On acceptance of the tender, the Bills of Quantities / Lump Sum Document is to be submitted within working days</u></b>	
<b><u>With the tender</u></b>	
<b><u>42.4.5 JBCC Engineering General Conditions of contract are to be included in the Contract Documents</u></b>	
<b><u>Not Applicable</u></b>	
<b><u>42.4.6 The Contract Value is to be adjusted using CPAP indices</u></b>	
<b><u>No</u></b>	
<b><u>Where CPAP is to be used</u></b>	
<b><u>Base</u></b>	
<b><u>Month : Not Applicable</u></b>	
<b><u>Alternative Indices (if applicable)</u></b>	
<b><u>Not Applicable</u></b>	
<b><u>42.4.7 Details of changes made to the provisions of JBCC standard documentation</u></b>	
<b><u>[An Addendum referenced to this clause is to be attached should the space provided be insufficient]</u></b>	
<b><u>CLAUSE 42.0 : POST-TENDER INFORMATION</u></b>	
<b><u>42.5 Contract Details</u></b>	
<b><u>42.5.1 Contractor</u></b>	
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<b>Brought Forward</b>	R	
<u>Postal address</u>		
<u>Code</u>		
<u>Telephone</u>		
<u>Fax</u>		
<u>E-mail</u>		
<u>Tax/VAT registration No :</u>		
<u>Physical address :</u>		
<u>42.5.2 The accepted contract sum (inclusive of tax)</u>		
<u>Amount</u>		
<u>In words</u>		
<u>42.5.3 The latest day of the month for the issue of an interim payment certificate</u>		
<u>Day of month</u>		
<u>42.5.4 The Preliminaries amounts shall be paid in terms of</u>		
<u>Alternative A or B</u>		
<u>42.5.5 The Preliminaries amounts shall be paid in terms of</u>		
<u>Alternative A or B</u>		
<u>42.5.6 The payment guarantee to be effected by the Employer for the Sum of</u>		
<u>Amount</u>		
<u>42.5.7 The Securities to be provided by the Contractor are :</u>		
<u>(1) Variable Construction Guarantee</u>		
<u>Yes / No</u>		
<u>(2) Fixed Construction Guarantee</u>		
<u>Yes / No</u>		
<u>(3) Advance Payment Guarantee</u>		
<u>Yes / No</u>		
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<u>42.5.8 The Annual building holiday period after the commencement of the construction period</u>	
<u>Dates</u> _____ <u>to</u> _____	
<u>42.6 Documents</u>	
<u>42.6.1 Contract documents marked and annexed hereto</u>	
<u>Marked</u>	
<u>Priced Bills of Quantities</u>	
<u>Yes / No</u>	
<u>Lump Sum Document</u>	
<u>Yes / No</u>	
<u>Guarantees</u>	
<u>Yes / No</u>	
<u>Contract drawings</u>	
<u>Yes / No</u>	
<u>Other Documents</u>	
<u>Yes / No</u>	
<u>42.6.2 Signed set of Contract Documents originals held by Principal Agent</u>	
<u>Yes / No</u>	
<u>If "No" held by</u>	
<u>Postal address</u>	
<u>Code</u>	
<u>Telephone</u>	
<u>Fax</u>	
<u>E-mail</u>	
<u>42.7 Dispute Resolution</u>	
<u>42.7.1 The default dispute resolution process is adjudication</u>	
<u>42.7.2 Where adjudication is elected</u>	
<u>(1) Adjudicator</u>	
<u>Postal address</u>	
<u>Code</u>	
<b>Carried Forward</b>	R
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<p style="text-align: right;"><b>Brought Forward</b></p> <p><u>Telephone</u></p> <p><u>Fax</u></p> <p><u>E-mail</u></p> <p><u>or</u></p> <p><u>(2) Adjudicator to be appointed by</u></p> <p><u>Name body</u></p> <hr/> <p><u>42.7.3 Where Arbitration is elected or is required in terms of 40.5</u></p> <p><u>(1) Arbitrator</u></p> <p><u>Postal address</u></p> <p><u>Code</u></p> <p><u>Telephone</u></p> <p><u>Fax</u></p> <p><u>E-mail</u></p> <p><u>or</u></p> <p><u>(2) Arbitrator to be appointed by</u></p> <p><u>Name body</u></p> <hr/> <p><u>42.7.4 Where Mediation is elected in terms of 40.6</u></p> <p><u>(1) Mediator</u></p> <p><u>Postal address</u></p> <p><u>Code</u></p> <p><u>Telephone</u></p>	<p style="text-align: right;">R</p>
<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 1 Bill No. 1 PRELIMINARY AND GENERAL</p>	<p style="text-align: right;">R</p>

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**Fax**

**E-mail**

or

**(2) Mediator to be appointed by**

**Name body**

## 42.8 Signatures of the Contracting Parties

**Thus done and signed at**  
**on**

**Name of signatory**

**for and behalf of the Employer who by signature**  
**hereof warrants authorization hereto**

### Capacity of signatory

**as Witness**

Thus done and signed at \_\_\_\_\_ on \_\_\_\_\_

**Name of signatory**

**for and behalf of the Contractor who by signature**  
**hereof warrants authorization hereto**

**Carried Forward**

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	<u>Capacity of signatory</u>			
	<u>as Witness</u>			
	<b><u>PART B - PRELIMINARIES</u></b>			
43	CLAUSE 1.0 : DEFINITIONS AND INTERPRETATION	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<b><u>CLAUSE 2.0 : DOCUMENTS</u></b>			
44	2.1 Checking of documents	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
45	2.2 Provisional Bills of Quantities	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<u>These provisional bills of quantities shall NOT be used for ordering purposes.</u>			
	<u>No alteration, erasure, amendment, note, deletion, insertion, omission or addition is to be made to this document. Any such alteration, etc., made will not be recognised, but the reading of these bills of quantities, as prepared by the quantity surveyor, will be adhered to.</u>			
	<u>The Tenderer is referred to the "Standard Preambles for Trades for full descriptions of materials and methods referred to be used in these bills of quantities insofar as they apply. Where descriptions in the bills of quantities differ from those in the Standard Preambles, the descriptions in the bills of quantities are to apply.</u>			
	<u>No claim whatsoever shall be entertained in respect of errors in pricing due to brevity of descriptions of items in the bills which are fully described when read in conjunction with the relevant Standard Preambles.</u>			
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	<p><u>The rates contained in the priced bills of quantities shall apply irrespective of the final quantities of the different classes and kinds of work actually executed. No claims for extras, loss of profit, variation of rates or other similar claims will be entertained as a result of any variations whatsoever between the contract sum and the final value of the works.</u></p> <p><u>Budgetary Allowances and Prime Cost Amounts contained herein may be omitted or reduced at the principal agents discretion and the contractor shall not be entitled to claim for any loss by way of reduction or omission of any discounts, or percentage relating to Budgetary Allowances or Prime Cost Amounts or any loss of profit related thereto</u></p>			
46	2.3 Availability of Construction Documentation	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
47	2.4 Interests of Agents	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
48	2.5 Priced Documents	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
49	2.6 Tender submission	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<b><u>CLAUSE 3.0 : THE SITE</u></b>			
50	3.1 Defined Works Area	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<p><u>The contractor will be restricted to occupy only that portion of the site as indicated on the architects drawing and he shall on no account be allowed to extend his operations beyond the defined areas without the written approval of the principal agent.</u></p>			
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	<p><u>Within the defined restrictions and constraints, the contractor will be responsible for the location of his site establishment. Any required relocation thereof to meet the requirements of the programme / constraints of the site, will be for the contractors account. Access to the site for all construction vehicles will be restricted to entry and exit points to be agreed with the principal agent</u></p>			
51	3.2 Geotechnical Investigation	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
52	3.3 Inspection of the Site	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<p><u>Contractors are required to do their own site investigations at their costs including topography; availability &amp; location of services; access conditions; geotechnical founding conditions; cadastral information including boundary pegs and beacons.</u></p>			
53	3.4 Existing premises occupied	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<u>Existing premises will be occupied.</u>			
	<p><u>The contractor and employer acknowledge that they understand that, if any, the existing school buildings will continue to be utilised as school facilities during the construction contract and that all works are to be carried out in such a manner as to least interfere with the operations of the school.</u></p> <p><u>Prior to the award of the contract and following a detailed review of the contractors proposed method statement for the works, the contractor shall provide the principal agent with a plan indicating his proposed layout of plant and establishment on site, delivery routes, workmen's access, etc.</u></p>			
54	3.5 Previous Work - Dimensional Accuracy	Item		
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	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
55	3.6 Previous Work - Defects	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
56	3.7 Services - Known	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<u>Provision of temporary services is required</u>			
57	3.8 Services - Unknown	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
58	3.9 Protection of Trees	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<u>Protection of existing trees and shrubs is required.</u>			
	<u>Specific requirements : The existing landscaped areas and trees in the school premises are to be protected.</u>			
59	3.10 Articles of Value	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
60	3.11 Inspection of Adjoining Properties	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<b><u>CLAUSE 4.0 : MANAGEMENT OF CONTRACT</u></b>			
61	4.1 Management of the Works	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
62	4.2 Programme for the Works	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
63	4.3 Progress Meetings	Item		
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	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
64	4.4 Technical Meetings	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
65	4.5 Labour and Plant Records	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<b><u>CLAUSE 5.0 : SAMPLES AND SHOP DRAWINGS</u></b>			
66	5.1 Samples of Materials	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
67	5.2 Workmanship samples	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
68	5.3 Shop drawings	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<p><u>The term "shop drawings" shall mean drawings, layout drawings, diagrams, illustrations, schedules, performance charts, brochures operating manuals and other data which are prepared by the contractor or any subcontractor, manufacturer, supplier or distributor and which illustrate manufacturing details and methods of execution of work.</u></p> <p><u>The contractor shall ensure that all shop drawings required for the works in terms of this Contract, all sub-contracts and/or any principal agents instruction, are prepared and submitted timeously in accordance with the following procedure:</u></p> <p><u>(l) Three prints of shop drawings of all fabricated work, working or setting out drawings, shop details and schedules shall be submitted to the principal agent for approval. Such work shall not be carried out until such approval has been given.</u></p>			
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<p><u>(ii) Shop drawings shall be submitted to the principal agent for approval and the contractor is to allow the principal agent a reasonable check period (minimum one week) from the date of receipt of shop drawings, before returning the drawings to the contractor in accordance with the works programme.</u></p> <p><u>(iii) 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.</u></p> <p><u>Delays in approval of shop drawings due to non-compliance with drawings, specifications and/or principal agents instructions, shall not constitute ground for any claims for delay, extension of time and the like.</u></p> <p><u>(iv) When the principal agent advises that shop drawings have been approved, the original transparencies of such drawings shall immediately be submitted to the principal agent so that the principal agents stamp of approval may be appended thereto. Thereafter, four prints of the approved shop drawings, setting out drawings and schedules shall be furnished to the principal agent. As many prints of the approved shop drawings and schedules as required, shall also be furnished to the works. No work shall be performed in accordance with drawings and/or catalogues not stamped with the principal agents approval.</u></p> <p><u>(v) The contractor, sub-contractor or supplier, as the case may be, shall be responsible for ensuring that all dimensions affecting shop drawings conform to the dimensions of built work.</u></p> <p><u>(vi) The principal agents approval of shop drawings is limited to checking conformity with specification and shall not relieve the contractor, subcontractor or supplier of his responsibility for design where called for, erection or installation fit, nor does it vary his contractual or delictual obligations and liabilities.</u></p>	
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	<u>(vii) Should the contractor, subcontractor or supplier 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 agents directive.</u>			
	<b><u>CLAUSE 6.0 : TEMPORARY WORKS AND PLANT</u></b>			
69	6.1 Deposits and Fees	Item		
	<b><u>Fixed .R .....; Time .R.....; Value .R.....</u></b>			
70	6.2 Enclosure of the Works	Item		
	<b><u>Fixed .R .....; Time .R.....; Value .R.....</u></b>			
71	6.3 Advertising	Item		
	<b><u>Fixed .R .....; Time .R.....; Value .R.....</u></b>			
72	6.4 Plant, Equipment, Sheds and Offices	Item		
	<b><u>Fixed .R .....; Time .R.....; Value .R.....</u></b>			
73	6.5 Main Noticeboard	Item		
	<b><u>Fixed .R .....; Time .R.....; Value .R.....</u></b>			
74	6.6 Sub-Contractor's Noticeboard	Item		
	<b><u>Fixed .R .....; Time .R.....; Value .R.....</u></b>			
	<b><u>CLAUSE 7.0 : TEMPORARY SERVICES</u></b>			
75	7.1 Location	Item		
	<b><u>Fixed .R .....; Time .R.....; Value .R.....</u></b>			
76	7.2 Water	Item		
	<b><u>Fixed .R .....; Time .R.....; Value .R.....</u></b>			
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	<u>The Employer shall provide for the works in accordance with Option C.</u>			
77	7.3 Electricity	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<u>The Employer shall provide for the works in accordance with Option C.</u>			
78	7.4 Telecommunication Facilities	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<u>The Contractor shall provide telecommunication facilities in accordance with Option B.</u>			
79	7.5 Ablution Facilities	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<u>The Contractor shall provide toilets in accordance with Option A.</u>			
	<b><u>CLAUSE 8.0 : PRIME COST AMOUNTS</u></b>			
80	8.1 Responsibility for Prime Cost Amounts	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<b><u>CLAUSE 9.0 : ATTENDANCE ON N/S SUBCONTRACTORS</u></b>			
81	9.1 General Attendance	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<u>The contractor will be responsible for the co-ordination and programming of the works undertaken by N/S Subcontractors. The Contractor will also allow the N/S Subcontractors to use, free of charge, the latrine facilities and water and power supplies on site, and shall not in any way hinder or prevent the execution of their work.</u>			
82	9.2 Special Attendance	Item		
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	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
83	9.3 Commissioning - Fuel, Water and Power	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<b><u>CLAUSE 10.0 : FINANCIAL ASPECTS</u></b>			
84	10.1 Statutory taxes duties and levies	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
85	10.2 Payment of Preliminaries	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
86	10.3 Adjustment of Preliminaries	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
87	10.4 Payment Certificate Cash Flow	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
88	10.5 Contractor Information Supply	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<b><u>CLAUSE 11.0 : GENERAL</u></b>			
89	11.1 Protection of the works	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
90	11.2 Protection / isolation of existing / sectionally occupied works	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
91	11.3 Security of the works	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
92	11.4 Notice before covering work	Item		
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	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
93	11.5 Disturbance	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
94	11.6 Environmental disturbance	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
95	11.7 Works cleaning and clearing	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
96	11.8 Vermin	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
97	11.9 Overhand work	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
98	11.10 Instruction Manuals and Guarantees	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<u>On achievement of practical completion the contractor is to hand over manual etc related to the works as listed below :</u>			
	<u>(1) Operating and Instruction manuals</u>			
	<u>All services subcontracts appointed through this Agreement including separate submissions for each Domestic subcontractor appointed by the Service subcontractors.</u>			
	<u>(2) Product guarantees and Manufacturers' instructions</u>			
	<u>All proprietary specified products / equipment that carries a Manufacturers' guarantee and needs to be maintained in a prescribed manner</u>			
99	11.11 As built Information	Item		
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	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
100	11.12 Tenant Installations	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<b><u>CLAUSE 12.0 : SCHEDULE OF VARIABLES</u></b>			
	<b><u>12.1 PRE-TENDER INFORMATION</u></b>			
101	12.1.1 Provisional bills of quantities	Item		
	<b><u>The quantities are provisional</u></b>			
	<b><u>Yes</u></b>			
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
102	12.1.2 Availability of construction documentation	Item		
	<b><u>Construction documentation is complete</u></b>			
	<b><u>No</u></b>			
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
103	12.1.3 Interests of Agents	Item		
	<b><u>Nil</u></b>			
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
104	12.1.4 Defined Works area	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
105	12.1.5 Geotechnical Investigation	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
106	12.1.6 Existing premises occupied	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
107	12.1.7 Previous Work - Dimensional Accuracy	Item		
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	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
108	12.1.8 Previous Work - Defects	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
109	12.1.9 Services - Known	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
110	12.1.10 Protection of Trees	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
111	12.1.11 Inspection of Adjoining properties	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
112	12.1.12 Enclosure of the Works	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
113	12.1.13 Offices	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
114	12.1.14 Main Noticeboard	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
115	12.1.15 Subcontractors Noticeboard	Item		
	<u>A noticeboard is required</u>			
	<u>No</u>			
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
116	12.1.16 Water	Item		
	<u>Alternative Selected</u>			
	<u>Option C (by employer - metered)</u>			
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
117	12.1.17 Electricity	Item		
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	<u>Alternative Selected</u> <u>Option C (by employer - metered)</u>			
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
118	12.1.18 Telecommunication Facilities	Item		
	<u>Alternative Selected</u> <u>Option B (by employer - metered)</u>			
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
119	12.1.19 Ablution Facilities	Item		
	<u>Alternative Selected</u> <u>Option A (by contractor)</u>			
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<u>The new WC's, WC's existing buildings and / or other sanitary fittings installed in the buildings shall not be used by the workmen under any circumstances.</u>			
120	12.1.20 Protection of existing / sectionally occupied works	Item		
	<u>Protection is required</u> <u>Yes</u>			
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
121	12.1.21 Special Attendance	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
122	12.1.22 Protection of the Works	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<u>The contractor shall provide for the protection of all work for which a certificate of practical completion has not yet been issued and which is liable to be damaged from any cause, which protection shall, inter alia, include :</u>			
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	<p><u>i) the protection of the works from inclement weather, exposure to the sun and the removal of water from whatever source from the works (keeping excavations free of water separately measured)</u></p> <p><u>ii) the provision and maintenance of all necessary temporary protection of finished and/or existing work liable to be damaged during the progress of the works by properly covering up, isolating, etc., as required</u></p> <p><u>The contractor shall be responsible for any damage which may occur and shall make good at his own expense</u></p>		
123	12.1.23 Disturbance	Item	
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>		
	<u>The contractor shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent</u>		
124	12.1.24 Environmental Disturbance	Item	
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>		
	<b><u>12.2 POST-TENDER INFORMATION</u></b>		
125	12.2.1 Payment of preliminaries	Item	
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>		
	<u>The payment of preliminaries shall be according to the option selected by the Contractor. The amount included in each monthly payment certificate in respect of preliminaries as stated in the contractor data shall be:</u>		
	<u>Option A (prorated)</u>		
	<u>Yes/No</u>		
	<u>Option B (calculated)</u>		
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	<u>Yes/No</u>			
126	12.2.2 Adjustment of preliminaries	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<u>The amount or items of preliminaries shall be adjusted to take account of the theoretical financial effect which changes in time and/or value have on preliminaries. Such an adjustment shall be based on the particulars provided by the contractor for this purpose in terms of Option A or B and shall preclude any further adjustment of preliminaries.</u>			
	<u>Option A (three categories)</u>			
	<u>Yes/No</u>			
	<u>Option B (detailed breakdown)</u>			
	<u>Yes/No</u>			
127	12.2.3 Additional agreed Preliminaries items	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<b><u>PART C - ADDITIONAL PRELIMINARIES</u></b>			
	<u>The following clauses are additional to or, augment the clauses contained in Parts A and B</u>			
	<b><u>1.0 THE SITE</u></b>			
128	CLAUSE 1.1 : UNAUTHORISED PERSONS ON SITE	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
	<u>The contractor shall at all times strictly exclude all unauthorized persons from the works.</u>			
	<u>No workmen are to be allowed under any circumstances to sleep or deposit any personal effects on the premises. The contractor must provide any necessary independent shelters or sheds required for any workmen or watchmen left on the site.</u>			
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	<u>Furthermore, the contractor shall take all measures necessary to ensure that no unauthorised workmen are allowed into the building at any time without the specific permission of the principal agent.</u>			
129	<p>CLAUSE 1.2 : ACCESS TO SITE</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p>	Item		
130	<p>CLAUSE 1.3 : MAINTENANCE OF ROADS AND SERVICES</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>The contractor shall keep the approaches to the site clear of mud, other debris and the like caused by the contractor or any subcontractors.</u></p> <p><u>Damages caused to public and private roads and services due to negligence by the contractor, shall be made good by the contractor at his own expense.</u></p> <p><b><u>2.0 FINANCIAL ASPECTS</u></b></p>	Item		
131	<p>CLAUSE 2.1 : PRICING OF PRELIMINARIES</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>These bills of quantities have been formulated in the conventional manner, whereby the preliminaries have been included as a separate section, in order to enable tenderers to price their site establishment costs, site management, etc.</u></p> <p><u>In pricing the preliminaries, tenderers are required to price the relevant items individually, as a single lump sum preliminaries amount will not be accepted.</u></p>	Item		
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	Brought Forward		R
	<p><u>In the event that a tenderer elects not to price the preliminaries section as contained within these bills of quantities, then it will be deemed that all relevant preliminaries costs have been included within the rates as tendered within the measured bills of quantities. Adjustment of the preliminaries will, in this instance, only be by way of remeasured final quantities applied to tendered rates. Tenderers acknowledge that by pricing the preliminaries in this way, they will forfeit any claim for the independent adjustment of preliminaries costs arising out of an extension of the construction period granted in terms of Clause A29.</u></p>		
132	<p>CLAUSE 2.2 : PRICING OF BILLS</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>Tenderers are 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 packing, duties, taxes, imposts, establishment charges, overheads, profit and all other obligations arising out of the agreement.</u></p> <p><u>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 tenderer's omission to price any item will be entertained.</u></p> <p><u>Prices for all plant, temporary works, services and other items provided shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary.</u></p>	Item	
	Carried Forward		R
	<p>Section No. 1 Bill No. 1 PRELIMINARY AND GENERAL</p>		

	<b>Brought Forward</b>		R	
	<p><u>The contractor shall execute work during overtime hours as necessary in order to complete the project within the agreed construction period and shall provide such resources and work such overtime hours as necessary. Costs for the execution of this work under these conditions shall be included within the contract sum.</u></p>			
133	<p>CLAUSE 2.3 : NATURE OF PROJECT IN RELATION TO PRICING</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>Tenderers are advised that the nature of this contract is such that the detail design will evolve in parallel with construction.</u></p>	Item		
134	<p>CLAUSE 2.4 : COSTS OF CLAIMS</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>All costs incurred by the contractor in the preparation of claims to the satisfaction of the principal agent and/or quantity surveyor shall be borne by the contractor.</u></p> <p><u>The contractor together with the Principal Agent shall provide a written opinion on all claims, including those submitted by selected/nominated subcontractors, pertaining to reduced time available for execution of the relevant work, out-of-sequence working, lack of access or claims of a similar nature.</u></p> <p><b><u>3.0 INSURANCES</u></b></p>	Item		
135	<p>CLAUSE 3.1 : SATISFACTION OF CONTRACTOR AS TO SCOPE OF INSURANCES</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>Submission of a tender shall be deemed as acceptance by the contractor that he is satisfied with the scope of the insurances effected by the employer, supplemented by any additional insurance considered necessary by himself.</u></p>	Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 1 Bill No. 1 PRELIMINARY AND GENERAL</p>			

	<b>Brought Forward</b>		<b>R</b>
	<p><u>The employer warrants that the insurances effected by him shall remain in force for the duration of the contract including the period of maintenance.</u></p> <p><u>Any clarification of the scope of cover provided by the policies arranged by the employer should be obtained from the employers insurance brokers.</u></p> <p><u>The contractor warrants that he shall give all notices and shall observe all the terms and conditions and requirements of all insurances applicable to this contract.</u></p> <p><u>Where the contractor is responsible for the appointment of sub-contractors, then the contractor shall:</u></p> <p>i) <u>ensure that potential and appointed subcontractors are aware of the whole content of Clauses A10.0, A11.0 and A12.0</u></p> <p>ii) <u>ensure the compliance of subcontractor with these Clauses where applicable.</u></p>		
136	<p>CLAUSE 3.2 : CLAIMS UNDER INSURANCE ARRANGED BY THE EMPLOYER</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>In the event of any occurrence which is likely to give rise to a claim under the insurances arranged by the employer, the contractor / subcontractor shall :-</u></p> <p>i) <u>In addition to any statutory requirement or other requirements contained in the agreement, immediately notify the employers insurance brokers by telephone or telefax, giving the circumstances, nature and an estimate of the loss or damage or liability;</u></p> <p>ii) <u>Complete a claims advice form as per Annexure L, in conjunction with both the principal agent and the employer and return it to the insurance brokers without delay;</u></p>	Item	
	<b>Carried Forward</b>		<b>R</b>
	<p>Section No. 1 Bill No. 1 PRELIMINARY AND GENERAL</p>		

	Brought Forward		R
	<p>iii) <u>Assist as required, in negotiations of the settlement of claims with the insurers through the employers insurance brokers.</u></p> <p><u>The employer shall have the right to make all and any enquiry on the site or elsewhere as to the cause and results of any such occurrence and the contractor shall give the employer and his insurers full facilities for carrying out such enquiries.</u></p> <p><b><u>4.0 DIRECT CONTRACTS</u></b></p>		
137	<p>CLAUSE 4.1 : DIRECT AND SEPARATE CONTRACTS</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>The employer shall have the right to employ other contractors (hereinafter referred to as Direct Contractors) to execute any special or other works, whether contained in this agreement or not, concurrently with the work being executed under this agreement.</u></p> <p><u>In addition, the employer shall have the right to send his own employees or direct contractors on to the works for the purpose of installing tenant installations and requirements and any other special installations and systems. The contractor is to allow against the relevant items as described in this Clause, for any costs, as no additional claims will be entertained due to the presence on the works of such direct contractors, employers employees or tenants.</u></p> <p><u>Should the contractor be required to make good after such direct contractors, employers employees or tenants or to carry out jobbing, etc., the contractor will be recompensed for any costs incurred by him in terms of Clause A32 of the preliminaries.</u></p>	Item	
	Carried Forward		R
	<p>Section No. 1 Bill No. 1 PRELIMINARY AND GENERAL</p>		

	<b>Brought Forward</b>		<b>R</b>
	<p><u>The contractor shall not be entitled to any percentage, profit or discount on the value of any work executed by direct contractors but shall nevertheless allow these direct contractors and the employers employees to have access to the works, allocate reasonable space in the building for the storage of their materials, tools and equipment, and co-ordinate via the principal agent, the work of such direct contractors as necessary, all to the satisfaction of the principal agent. The contractor shall allow the direct contractors, etc., to use, free of charge, the latrine accommodation and water and power supply on the site, and shall not in any way hinder or prevent the execution of their work.</u></p> <p><b><u>5.0 HANDOVER, GUARANTEES AND MAINTENANCE INSTRUCTIONS / MANUALS</u></b></p>		
138	<p>CLAUSE 5.1 : AS BUILT DRAWINGS</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p>	Item	
139	<p>CLAUSE 5.2 : GUARANTEES AND MAINTENANCE INSTRUCTIONS / MANUALS</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>The contractor shall obtain and hand over to the principal agent on practical completion, all relevant guarantees and operating and maintenance manuals, as required by the principal agent or provided by manufacturers, suppliers or subcontractors.</u></p> <p><u>The contractor shall ensure that all warranties and guarantees received are fully ceded to the employer on works completion, failing which, the issue of the works completion certificate and the release of construction guarantee, will be withheld until this is satisfactorily completed.</u></p>	Item	
	<b>Carried Forward</b>		<b>R</b>
<p>Section No. 1 Bill No. 1 PRELIMINARY AND GENERAL</p>			

	<b>Brought Forward</b>		R	
	<p><u>The guarantees shall state that workmanship, materials and installations are guaranteed for a specified period reckoned from the date of practical completion of the works and that any defects in the workmanship, materials and installation that may arise during that period, shall be made good at the expense of the contractor / subcontractors doing the work, upon written notice from the principal agent or the employer to do so.</u></p>			
140	<p>CLAUSE 5.3 : SECURITY AT COMPLETION</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>At completion, the contractor shall leave the works secure with all accesses locked. The contractor shall account for and hand over to the principal agent all keys, properly labelled with an itemised schedule to be signed by the principal agent as receipt.</u></p> <p><b><u>6.0 GENERAL</u></b></p>	Item		
141	<p>CLAUSE 6.1 : CONTRACTOR TO BE RESPONSIBLE</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>The contractor acknowledges that the principal objective of his appointment is his expert knowledge in the execution of the scope of work of this contract. The contractor shall be solely responsible for all aspects of the construction of the works including but not limited to management, resourcing, programming and co-ordination of sequencing of work all as required for the type of project described and within the time limits and quality standards specified.</u></p>	Item		
142	<p>CLAUSE 6.2 : NOTICE BOARDS, MEDIA RELEASES, ADVERTISING, ETC.</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>All rights of publication of articles in the media, together with any advertising relating to, or in any way connected with this project, shall vest with the employer.</u></p>	Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 1 Bill No. 1 PRELIMINARY AND GENERAL</p>			

	<b>Brought Forward</b>		<b>R</b>	
	<p><u>The contractor together with his subcontractors shall not, without the written consent of the employer, cause any statement or advertisement to be printed, screened or aired by the media, or have any advertising signage displayed on site.</u></p>			
143	<p>CLAUSE 6.3 : METHOD STATEMENT</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>The contractor shall produce, when required to do so by the principal agent, a method statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the works. Any approval given or observation made by the principal agent shall not relieve the contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the works.</u></p>	Item		
144	<p>CLAUSE 6.4 : OVERLOADING</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>The contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the works or temporary works, scaffolding, etc. The contractor shall submit details of his proposed loading, storage, plant erection, etc., to the principal agent for their approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the principal agents requirements in connection with the provision of temporary support work, etc. Any damage caused to the works by overloading shall be made good by the contractor at his sole expense.</u></p>	Item		
145	<p>CLAUSE 6.5 : STRUCTURAL SAFETY</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p>	Item		
	<b>Carried Forward</b>		<b>R</b>	
	<p>Section No. 1 Bill No. 1 PRELIMINARY AND GENERAL</p>			

	<b>Brought Forward</b>		R	
	<p><u>The contractor shall take all reasonable measures to ensure that all alteration works are structurally practicable and safe. The contractor shall provide and price under the relevant demolition item, for all necessary temporary propping and support which may be required.</u></p>			
146	<p>CLAUSE 6.6 : CONDEMNED WORK</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>The contractor shall remove from the site all materials not conforming with the relevant specification and condemned by the principal agent, whether incorporated in the works or not. He shall replace such material and re-execute the affected work in accordance with the contract and without expense to the employer.</u></p> <p><u>The contractor shall also bear the expense of making good any other work damaged or destroyed by such removal or replacement.</u></p>	Item		
147	<p>CLAUSE 6.7 : PHOTOGRAPHIC RECORD</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>A two weekly photographic record is to be provided by the contractor, recording the state of progress of the works. Copies of each photograph annotated with the location and date, are to be made available to the employer via the principal agent.</u></p>	Item		
148	<p>CLAUSE 6.8 : MODE OF PROCEDURE</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>Notwithstanding anything to the contrary contained herein, the principal agent at all times reserves the right to direct the order in which the various parts of the contract are to be executed. The contractor shall give priority to any individual section or portion of the works that, in the opinion of the principal agent, requires to be expedited.</u></p>	Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 1 Bill No. 1 PRELIMINARY AND GENERAL</p>			



	Brought Forward		R
	<p><u>Should the contractor and/or principal agent be of the opinion that such instruction warrants a revision of date for practical completion and / or an adjustment to the contract value then this will be dealt with in terms of clause 29 and clause 32.</u></p> <p><u>Should it appear, in the principal agents opinion, that work in any area is not being executed in accordance with the requirements of the programme, the contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the principal agent.</u></p>		
149	<p>CLAUSE 6.9 : ROYALTIES, PATENT RIGHTS AND FEES</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>The contractor shall indemnify the principal agent against any action, claim, demand, costs or expenses arising from or incurred by reason of any infringement of letters, patent design, trademark, name, copyright or other protected rights in respect of any machine, plant, work, materials, thing, system or method of using, fixing, working or arrangement used or fixed or supplied by the contractor, but such indemnity shall not cover any use of the equipment or part thereof otherwise than in accordance with the provisions of the specification.</u></p> <p><u>All payments and royalties payable in one sum or by instalments or otherwise, shall be included by the contractor in the price and shall be paid by him to those to whom they may be due or payable.</u></p> <p><u>In the event of any claim being made or action brought against the principal agent arising out of the matter referred to in this clause, the contractor shall be promptly notified thereof and may, at his own expense, conduct negotiations for the settlement of the same and/or litigation, that may arise therefrom. The principal agent shall not, unless and until the contractor shall have failed to take over and conduct the negotiations of litigation, make any admission which might be prejudicial thereto.</u></p>	Item	
	Carried Forward		R
	<p>Section No. 1 Bill No. 1 PRELIMINARY AND GENERAL</p>		

	<b>Brought Forward</b>		<b>R</b>
	<p><u>The conduct by the contractor of such negotiations or litigation shall be conditional upon the contractor having first given the principal agent such reasonable security as shall from time to time be required by the principal agent, to cover the amount ascertained or agreed or estimated, as the case may be, or any compensation, damage, expenses and costs for which the principal agent may become liable in respect of such infringement as aforesaid. The principal agent shall, at the request of the contractor, afford all available assistance for the purpose of contesting any such claim or action and shall be repaid the expenses incurred in doing so.</u></p> <p><u>The conduct by the contractor of such negotiations or litigation shall be conditional upon the contractor having first given the principal agent such reasonable security as shall from time to time be required by the principal agent, to cover the amount ascertained or agreed or estimated, as the case may be, or any compensation, damage, expenses and costs for which the principal agent may become liable in respect of such infringement as aforesaid. The principal agent shall, at the request of the contractor, afford all available assistance for the purpose of contesting any such claim or action and shall be repaid the expenses incurred in doing so.</u></p>		
150	<p>CLAUSE 6.10 : CONTINUOUS SUPPLY OF ELECTRICITY</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p> <p><u>The contractor shall allow for the provision of suitable standby generated power including all connection, fuel and maintenance costs to meet the requirement of the contract.</u></p>	Item	
151	<p>7.0 INTERFERENCE WITH TRAFFIC FLOW AND NEARBY PROPERTIES</p> <p><u>Fixed .R .....; Time .R.....; Value .R.....</u></p>	Item	
	<b>Carried Forward</b>		<b>R</b>
	<p>Section No. 1 Bill No. 1 PRELIMINARY AND GENERAL</p>		

	<b>Brought Forward</b>		R	
	<p><u>All operations necessary for the execution of the works and for the construction of any temporary works shall not interfere unnecessarily or improperly with the access of the public to permanent roads and footpaths. The Contractor shall indemnify the Employer in respect of all claims, demands, proceedings, damages, costs, charges and expenses whatsoever arising out of or in respect of or in relation to any such matters.</u></p> <p><u>The Contractor shall at all times accommodate such provisions as may be necessary in the opinion of the Principal Agent to ensure that disruption to the occupants of the nearby buildings or the public is kept to an absolute minimum.</u></p> <p><u>The Contractor shall make all necessary provisions in his rates for his requirements and no additional entitlement on the part of the Contractor in compliance with these requirements shall be entertained.</u></p> <p><u>The Contractor must reinstate the existing streets, paving's, kerbs, etc. to their original condition on completion of the building operations to the satisfaction of the Principal Agent.</u></p>			
152	8.0 INFRINGEMENT WARRANTY	Item		
	<u>Fixed .R .....; Time .R.....; Value .R.....</u>			
153	Community liaison officer (CLO)	No	36.00	
	<p><u>The CLO will be responsible will include EPWP reporting on a monthly basis</u></p> <p><u>Te contractor must issue copies of the CLO valid payslip to the Principal Agent as well as IDT</u></p> <p><b><u>THE CONTRACTOR HEREBY:</u></b></p> <p><u>(i) warrants to the Employer that he has the right to perform the contract works;</u></p> <p><u>(ii) warrants that in so performing the contract works that he shall not infringe the rights of any other person.</u></p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 1 Bill No. 1 PRELIMINARY AND GENERAL</p>			

**School Provisional Bill of Quantities  
Independent Development Trust  
Limpopo Department of Education**

[illegible]

**Independent Development Trust  
Limpopo Department of Education**

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Ndzalama Primary School Provisional Bill of Quantities  
Independent Development Trust  
Limpopo Department of Education

Item No		Quantity	Rate	Amount
	<b><u>Section 3</u></b> <b><u>ALTERATIONS</u></b>			
	<b><u>Refurbish Three blocks of 8 Ablutions</u></b>			
	<b><u>BILL NO.1 : ALTERATIONS</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u></b>			
	<b><u>REMOVAL OF EXISTING WORK</u></b>			
	<b><u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc:</u></b>			
1	Timber roof structure (area on plan)	m2	203.00	
2	Corrugated iron roof covering and timber purlins.	m2	194.00	
3	Gypsum plasterboard ceilings including cornices, timber bandering, etc.	m2	95.00	
4	Fascias and barge boards	m	113.00	
	<b><u>Hacking up/off and removing granolithic, screeds, plaster, surface beds etc from concrete or brickwork and preparing surfaces for new screeds, plaster, tile, etc:</u></b>			
5	Surface beds	m2	225.00	
	<b><u>Taking out and removing doors, windows, etc from brickwork to remain</u></b>			
6	Steel single door and frame not exceeding 2,5m <sup>2</sup>	No	24.00	
	<b><u>Taking out and removing sanitary fittings, tanks, geysers, etc, including disconnecting from pipes, traps, etc and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u></b>			
7	Vitreous china wash hand basin	No	12.00	
8	Vitreous china WC pan with cistern and flush pipe	No	24.00	
	<b><u>BILL NO.1 : FOUNDATIONS (PROVISIONAL)</u></b>			
	<b>Carried Forward</b>		R	
	Section No. 3 Bill No. 1 Refurbishment of 18 Waterborne Toilets			

	<b>Brought Forward</b>			R
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u></b>			
	<b><u>SITE CLEARANCE, ETC.</u></b>			
	<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93%:</u></b>			
9	Under floors, steps, pavings, etc.	m3	68.00	
	<b><u>SOIL POISONING</u></b>			
	<b><u>Soil insecticide:</u></b>			
10	Under floors, etc., including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	225.00	
	<b><u>BILL NO.2 : CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u></b>			
	<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
	<b><u>25MPa/19mm Concrete</u></b>			
11	Surface beds on waterproofing.	m3	18.00	
	<b><u>TEST BLOCKS</u></b>			
	<b><u>Test blocks:</u></b>			
12	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes (Provisional).	No	6.00	
	<b><u>FINISHING TOP SURFACES OF CONCRETE</u></b>			
	<b><u>Wood floated:</u></b>			
13	Top of concrete surface beds.	m2	40.50	
	<b><u>REINFORCEMENT</u></b>			
	<b>Carried Forward</b>			R
	Section No. 3 Bill No. 1 Refurbishment of 18 Waterborne Toilets			

	<b>Brought Forward</b>			R	
	<b><u>Mild steel reinforcement to structural concrete work:</u></b>				
14	All diameter bars.	t	0.900		
	<b><u>High tensile steel reinforcement to structural concrete work:</u></b>				
15	All diameter bars.	t	1.350		
	<b><u>Fabric reinforcement:</u></b>				
16	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	225.00		
	<b><u>BILL NO.4 : WATERPROOFING</u></b>				
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u></b>				
	<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>				
	<b><u>One layer of 250 micron Consol Plastics Gunplas Black waterproof sheeting sealed at laps with Gunplas Pressure Sensitive Tape:</u></b>				
17	Under surface beds.	m2	225.00		
	<b><u>BILL NO.5 : ROOF COVERINGS</u></b>				
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u></b>				
	<b><u>RIBBED METAL SHEETING AND ACCESSORIES</u></b>				
	<b><u>Klip-Lok 406' 0,58mm thick heavy industrial Z275 spelter galvanized steel sheeting and accessories with "Chromadek" finish, fixed to timber purlins or rails at maximum 1200mm centres:</u></b>				
18	Roof covering with pitch not exceeding 25 degrees, in transportable lengths not exceeding 20m.	m2	194.00		
	<b>Carried Forward</b>			R	
	Section No. 3				
	Bill No. 1				
	Refurbishment of 18 Waterborne Toilets				



Brought Forward			R
<b><u>Klip-Lok 406' Flashings:</u></b>			
19	Ridge capping 550mm girth, three times bent along girth and notched on site to suit roof profile (Code FK3).	m	18.00
20	Hip capping 550mm girth, three times bent along girth and notched on site to suit roof profile.	m	50.00
<b><u>BILL NO.6 : CARPENTRY AND JOINERY</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u></b>			
<b><u>PREFABRICATED ROOF TRUSSES, ETC.</u></b>			
<b><u>Sawn softwood:</u></b>			
21	Roof construction to double pitched roof with two hipped ends 7.08 x 5.49m and 859mm high overall including wall plates, trusses, jack rafters, permanent bracing, 76 x 50mm purlins at suitable centres for roof covering (elsewhere measured), design and Engineers Certificate of Compliance.	No	3.00
<b><u>EAVES, VERGES, ETC</u></b>			
<b><u>'Everite Nutec' high density sheets:</u></b>			
22	15 x 225mm Plain fascia boards including 'Chromaprep' H-profile jointing strips and corner jointers.	m	113.00
<b><u>SOLID LAMINATED FLUSH DOORS</u></b>			
<b><u>Solid laminated flush doors with masonite veneer:</u></b>			
23	40mm Door 813 x 2032mm high.	No	24.00
<b><u>BILL NO 7 : CEILINGS PARTITIONS AND ACCESS FLOORING</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u></b>			
<b><u>DECORATIVE MOULDINGS AND CORNICES</u></b>			
Carried Forward			R
Section No. 3 Bill No. 1 Refurbishment of 18 Waterborne Toilets			

Ndzalama Primary School Provisional Bill of Quantities  
Independent Development Trust  
Limpopo Department of Education

		Brought Forward			R
		<b><u>'Rhino' Moulded Gypsum Cornices:</u></b>			
24	75mm Coved cornice.	m	185.00		
		<b><u>INSULATION</u></b>			
		<b><u>Mineral wool insulation:</u></b>			
25	50mm Insulation closely fitted and laid on top of brandering between roof timbers etc.	m2	95.00		
		<b><u>NAILED UP AND SCREW UP CEILINGS</u></b>			
		<b><u>6mm 'Everite Nutec' plain boards with galvanized steel H-profile jointing strips over joints:</u></b>			
26	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres with cross brandering at joints, ends of sheets and at light fittings, etc.	m2	95.00		
27	Extra over for 600 x 600mm trap door.	No	5.00		
		<b><u>BILL NO 8 : IRONMONGERY</u></b>			
		<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u></b>			
		<b><u>LOCKSETS</u></b>			
		<b><u>Chromium plated:</u></b>			
28	WC indicator bolt with keep fixed to metal.	No	24.00		
		<b><u>LETTERS, NAMEPLATES, ETC.</u></b>			
		<b><u>Solid:</u></b>			
29	200 x 200mm Natural anodized aluminium plate with male or female symbol.	No	5.00		
		<b><u>BATHROOM FITTINGS</u></b>			
		<b><u>Kimberley-Clark:</u></b>			
30	Lockable toilet roll holder plugged.	No	24.00		
		<b>Carried Forward</b>			R
	Section No. 3 Bill No. 1 Refurbishment of 18 Waterborne Toilets				

Brought Forward			R
<b><u>SUNDRIES</u></b>			
<b><u>Solid:</u></b>			
31	Stainless steel half moon door stop or similar approved, plugged and screwed to floor	No	24.00
<b><u>BILL NO 9 : METALWORK</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u></b>			
<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
<b><u>1,6mm Rebated frames suitable for one brick walls:</u></b>			
32	Frame for door 813 x 2032mm high.	No	24.00
<b><u>BILL NO 10 : PLASTERING</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u></b>			
<b><u>GRANOLITHIC</u></b>			
<b><u>Untinted granolithic on concrete:</u></b>			
33	20mm Thick on floors and landings.	m2	95.00
<b><u>INTERNAL PLASTER</u></b>			
<b><u>Cement plaster on brickwork:</u></b>			
34	On walls.	m2	432.00
35	On narrow widths.	m2	14.00
<b><u>BILL NO 11 : TILING</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u></b>			
<b><u>CERAMIC WALL TILING</u></b>			
Carried Forward			R
Section No. 3 Bill No. 1 Refurbishment of 18 Waterborne Toilets			

Brought Forward			R
<b><u>152 x 152 x 5mm White glazed ceramic tiles fixed with adhesive to plaster (plaster elsewhere):</u></b>			
36	On walls.	m <sup>2</sup>	284.00
37	100mm Skirting	m	14
<b><u>BILL NO 12 : PLUMBING AND DRAINAGE</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u></b>			
<b><u>SOIL DRAINAGE</u></b>			
<b><u>uPVC:</u></b>			
38	110mm Pipes laid in and including trenches not exceeding 1m deep.	m	225.00
<b><u>Extra over uPVC pipes for fittings:</u></b>			
39	110mm Junction.	No	9.00
<b><u>Precast concrete gulleys:</u></b>			
40	110mm Gulley not exceeding 1000mm deep.	No	3.00
<b><u>Inspection chambers (covers elsewhere):</u></b>			
41	Inspection chamber 450 x 600mm and not exceeding 750mm deep internally.	No	3.00
42	Inspection chamber 450 x 600mm and exceeding 750mm and not exceeding 1500mm deep internally with the lower 1,5m depth increased to 900 x 900mm internally and 150mm precast concrete reducer slab over enlarged bottom portion.	No	3.00
<b><u>Gratings, covers, etc:</u></b>			
43	450 x 600mm x 68kg Type 9D cast iron single seal manhole cover and frame.	No	6.00
<b><u>Sundries:</u></b>			
44	100mm Cast iron 'ABC' cleaning eye.	No	9.00
Carried Forward			R
Section No. 3 Bill No. 1 Refurbishment of 18 Waterborne Toilets			

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	Brought Forward			R
45	Testing drainage pipe system.		Item	
	<b><u>RAINWATER DISPOSAL</u></b>			
	<b><u>0.58mm Galvanized sheet iron with Chromadek finish to match roof sheeting:</u></b>			
46	100 x 75mm Eaves gutters with beaded front edge.	m	113.00	
47	Extra over eaves gutter for angle.	No	18.00	
48	Extra over eaves gutter for outlet for 100 x 75mm pipe.	No	18.00	
49	100 x 75mm Rainwater pipe.	m	54.00	
50	Extra over rainwater pipe for shoe.	No	18.00	
51	Extra over rainwater pipe for eaves or plinth offset 600mm projection.	No	18.00	
	<b><u>SANITARY FITTINGS</u></b>			
	<b><u>'Vaal Sanitaryware' vitreous china wash hand basins and pedestals:</u></b>			
52	455 x 290mm 'Bantam' white vitreous china cloakroom basin (product code 7030) with two tapholes, including integrated overflow and chainstay hole, and 2 no. 'Star' pillar-taps, bolted to wall with two 10mm bolts (product code 8448Z0).	No	12.00	
	<b><u>'Vaal Sanitaryware' vitreous china WC suites:</u></b>			
53	'Hibiscus' white colour vitreous china close-coupled washdown suite (product code 772602) comprising 90° outlet open rim pan (product code 772610) and matching 9 litre cistern (product code 710531), including lid, fitments, etc., bedded in 4:1 cement mortar on concrete floors.	No	24.00	
	<b><u>WASTE UNIONS, ETC.</u></b>			
	<b><u>Waste unions, etc:</u></b>			
54	32mm Basin waste union.	No	12.00	
	<b><u>TAPS, VALVES, ETC</u></b>			
	Carried Forward			R
	Section No. 3			
	Bill No. 1			
	Refurbishment of 18 Waterborne Toilets			

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	Brought Forward			R
	<b><u>Brass:</u></b>			
55	15mm Stopcock.	No	36.00	
56	15mm CP push button demand bibtap	No	9.00	
57	32mm Fullway gate valve.	No	5.00	
	<b><u>SANITARY PLUMBING</u></b>			
	<b><u>uPVC pipes:</u></b>			
58	50mm Pipes.	m	45.00	
59	110mm Pipes.	m	23.00	
	<b><u>Extra over uPVC pipes for fittings:</u></b>			
60	110mm End cap.	No	5.00	
61	110mm Reducer.	No	5.00	
62	110mm Bend.	No	23.00	
63	110mm Junction.	No	18.00	
64	110mm Reducing junction.	No	5.00	
65	110mm Pan connector.	No	23.00	
66	110mm Air vent cowl.	No	23.00	
	<b><u>WATER SUPPLIES</u></b>			
	<b><u>Galvanized steel pipes:</u></b>			
67	32mm Pipes laid in trenches not exceeding 1m deep.	m	225.00	
	<b><u>Class 0 copper pipes:</u></b>			
68	15mm Pipes chased into brick walls.	m	90.00	
	<b><u>Extra over class 0 copper pipes for capillary fittings:</u></b>			
69	15mm Fittings.	No	113.00	
	<b>Carried Forward</b>			R
Section No. 3 Bill No. 1 Refurbishment of 18 Waterborne Toilets				

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	<b>Brought Forward</b>			R	
	<b><u>Copper overflow and service pipes:</u></b>				
70	15mm Service pipe 450mm girth.	No	41.00		
	<b><u>Sundries:</u></b>				
71	450 x 450mm Cast iron stopcock box including brick chamber below not exceeding 500mm deep internally.	No	5.00		
72	450 x 450mm Meter or valve box including brick chamber below not exceeding 500mm deep internally.	No	5.00		
	<b><u>Testing:</u></b>				
73	Testing water pipe system.		Item		
	<b><u>FIRE APPLIANCES, ETC.</u></b>				
	<b><u>Portable handheld fire extinguishers:</u></b>				
74	9kg Dry chemical fire extinguisher including backing board and bracket screwed to wall.	No	3.00		
	<b><u>BILL NO 13 : GLAZING</u></b>				
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u></b>				
	<b><u>GLAZING TO STEEL WITH PUTTY</u></b>				
	<b><u>4mm Patterned glass:</u></b>				
75	Panes exceeding 0,1m <sup>2</sup> and not exceeding 0,5m <sup>2</sup> .	m2	14.00		
	<b><u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u></b>				
	<b><u>4mm Silvered float glass copper backed mirrors with 10mm bevelled and polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete:</u></b>				
76	Mirror 450 x 600mm high.	No	18.00		
	<b><u>BILL NO 14 : PAINTWORK</u></b>				
	<b>Carried Forward</b>			R	
	Section No. 3 Bill No. 1 Refurbishment of 18 Waterborne Toilets				

Brought Forward			R
<b>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</b>			
<b><u>ON FLOATED PLASTER</u></b>			
<b><u>Prepare surfaces and remove all loose material, apply one coat 'Merit Plaster Primer' and two coats 'Polvin Super Acrylic' paint:</u></b>			
77	On interior walls.	m2	149.00
<b><u>ON FIBRE-CEMENT, ETC.</u></b>			
<b><u>Prepare surfaces and remove all loose material, apply one coat 'Polvin' thinned 20% and two coats 'Polvin Super Acrylic' paint:</u></b>			
78	On ceilings and cornices.	m2	95.00
<b><u>Prepare surfaces and remove all loose material, apply one coat 'Wall and All Pure Acrylic' thinned 20% and one coat 'Wall and All Pure Acrylic' paint:</u></b>			
79	On exterior fascias and barge boards.	m2	54.00
<b><u>ON METAL</u></b>			
<b><u>Prepare surfaces and remove all loose material, dust, grease, salts and contamination with 'Aguasolve Degreaser GR1', rinse and apply one coat 'Galvogrip Metal Primer' and two coats 'Wall and All Pure Acrylic' paint on galvanized steel or aluminium:</u></b>			
80	On door frames.	m2	41.00
81	On windows (both sides measured).	m2	23.00
<b><u>PAINT ON WOOD</u></b>			
<b><u>Prepare and apply one coat wood primer</u></b>			
<b><u>Prepare, stop and apply one undercoat and three full coats polyurethane clear eggshell varnish, lightly sanded down between coats</u></b>			
82	On doors	m2	86.00
Carried to Final Summary			R
Section No. 3			
Bill No. 1			
Refurbishment of 18 Waterborne Toilets			



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Item No	Quantity	Rate	Amount
<b><u>Refurbishment of 1 × 3 Classroom Block (3 Classrooms)</u></b>			
<b><u>BILL NO 1</u></b>			
<b><u>ALTERATIONS</u></b>			
<u>User note</u>			
<i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i>			
<i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i>			
<i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i>			
<i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i>			
<u>View site</u>			
Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials salvageable from the alterations. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained			
<u>Explosives</u>			
No explosives whatsoever may be used for alteration purposes unless otherwise stated			
<b>Carried Forward</b>			R
Section No. 4 Bill No. 1 Refurbishment of 1 x 3 Classrooms (3 Classrooms)			

<b>Brought Forward</b>	R
<p><u>General</u></p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to tenants in the building and to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p> <p>Doors, fanlights, windows, fittings, frames, linings, etc which are to remain the property of the employer shall be carefully taken out, temporarily stored, transported over a distance of approximately 10km to store and handed over to the employer</p> <p>Doors, fanlights, windows, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately</p> <p>Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc</p> <p>Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc</p> <p>With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork</p> <p>Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary</p> <p>The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)</p>	
<b>Carried Forward</b>	R
<p>Section No. 4</p> <p>Bill No. 1</p> <p>Refurbishment of 1 x 3 Classrooms (3 Classrooms)</p>	

**Ndzalama Primary School Provisional Bill of Quantities**  
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<b>Brought Forward</b>			<b>R</b>
<b><u>REMOVAL OF EXISTING WORK</u></b>			
<u>Breaking up and removing reinforced concrete, including cutting off and removing reinforcement</u>			
1	Stairs and landings	m3	2
<u>Taking out and removing doors, windows, etc from brickwork to remain</u>			
2	Timber doors and frames not exceeding 2,5m <sup>2</sup>	No	3
3	Glazed steel window not exceeding 2,5m <sup>2</sup>	No	9
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>			
4	Profiled sheet steel roof covering and timber purlins (Only where instructed by Architect)	m2	423
5	Fascias and barge boards	m	80
6	Eaves gutters including brackets	m	80
7	Downpipes including brackets, etc.	m	37
8	Gypsum plasterboard ceilings, including timber bandering, cornices, etc	m2	236
<u>Breaking down and removing brickwork etc</u>			
9	One brick walls	m2	9
<u>Taking out and removing sundry joinery work, fittings, etc.</u>			
10	Gypsum coved cornices	m	189
11	Timber skirtings	m	133
12	Timber wall cupboard 1 850 wide x 2 125mm high	No	3
<u>Taking up and removing wood block floor coverings, vinyl floor coverings, carpets, etc and preparing screeds for new floor coverings</u>			
13	Vinyl tile floor covering	m2	236
<b>Carried Forward</b>			<b>R</b>
Section No. 4 Bill No. 1 Refurbishment of 1 x 3 Classrooms (3 Classrooms)			

	Brought Forward			R
	<u>Taking out and removing ironmongery</u>			
14	Mortice lockset from timber door	No	3	
15	Door closer from timber door and frame	No	3	
	<u>Taking out/off and removing glass and mirrors</u>			
16	Glass from steel windows, including cleaning out rebates and preparing for new glass	m2	31	
	<u>Taking out and removing sanitary fittings, tanks, geysers, etc, including disconnecting from pipes, traps, etc and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>			
17	Vitreous china WC pan with cistern and flush pipe	No	9	
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u>			
18	Internal plaster from walls and columns	m2	341	
	<b><u>OPENINGS THROUGH EXISTING WALLS ETC</u></b>			
	<u>Breaking out for and forming plain openings through brick walls, including prestressed concrete lintels, making good cement plaster on both sides and into reveals and with 20 MPa concrete thresholds with steel trowelled finish (making good paintwork elsewhere)</u>			
19	One brick walls of NFP bricks in class II mortar in building up openings	m2	5	
	<b><u>CUTTING THROUGH FLOORS AND CEILINGS</u></b>			
	<u>Cutting through:</u>			
20	Gypsum plasterboard ceilings and timber brandering for One brick walls, including making good on both sides of walls, necessary additional brandering etc (new cornices elsewhere)	m	18	
	<b><u>BUILDING UP OPENINGS</u></b>			
	Carried Forward			R
	Section No. 4			
	Bill No. 1			
	Refurbishment of 1 x 3 Classrooms (3 Classrooms)			

Brought Forward			R
	<u>One brick wall face bricks pointed with flush horizontal and vertical joints</u>		
21	Cutting toothings and bonding new face brickwork to existing	m	16
	<b><u>MAKING GOOD CEMENT SCREED</u></b>		
22	New screed on floors	m2	246
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>		
	<b><u>Foundation brickwork and concrete walls have been measured to top of unfinished floor level</u></b>		
	<b><u>BILL NO 2: CONCRETE, FORMWORK AND REINFORCEMENT</u></b>		
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>		
	<b><u>CONCRETE</u></b>		
	<b><u>Concrete test cubes</u></b>		
23	Prepare set of three 150 x 150 x 150mm concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for.	No	2.00
	<b><u>REINFORCED CONCRETE</u></b>		
	<b><u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 20MPa at 28 days</u></b>		
24	In aprons slabs	m3	13.00
25	In stairs	m3	2.00
	Carried Forward		R
	Section No. 4 Bill No. 1 Refurbishment of 1 x 3 Classrooms (3 Classrooms)		

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	Brought Forward			R
	<b><u>Sundries</u></b>			
26	Finish raking top surface of concrete slabs, etc. to a smooth and even wood floated surface including additional dry sand/cement mixture added as necessary whilst the concrete is still wet	m2	130.00	
	<b><u>BILL NO 3: MASONRY</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>BRICKWORK IN BURNT CLAY BRICKS IN (5:1) CEMENT MORTAR</u></b>			
27	One brick wall	m2	24.00	
	<b><u>BRICK REINFORCEMENT</u></b>			
28	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	71.00	
	<b><u>TEMPORARY TURNING PIECES, ETC.</u></b>			
29	To flat brick lintels not exceeding 300mm wide	m	8.00	
	<b><u>SUNDRIES</u></b>			
30	38 x 1,6mm Galvanised hoop iron roof tie with one end built six courses deep into top of brickwork and other end wrapped around and nailed to trusses	No	160.00	
	<b><u>FACED BRICKWORK</u></b>			
	<b><u>External facings in approved face bricks (FBS) with a PC Amount of R4,500.00 per thousand bricks delivered to site (excluding VAT) pointed with square recessed horizontal and vertical joints</u></b>			
31	Extra over ordinary brickwork for facing and pointing in stretcher bond	m2	24.00	
	<b>Carried Forward</b>			R
	Section No. 4			
	Bill No. 1			
	Refurbishment of 1 x 3 Classrooms (3 Classrooms)			

	Brought Forward			R
	<b><u>Sundries</u></b>			
32	Construct a sample panel 2m long x 1,5m high of one brick wall in cement mortar faced and pointed on both sides in stretcher bond and with brick-on-edge coping to top including pointing to top and both sides and with and including necessary excavations for and including 15MPa/38mm mass concrete strip footing in a position as directed by the Representative/Agent and including demolishing and removal after completion of all brickwork (Provisional)	No	2.00	
	<b><u>BILL NO 4: WATERPROOFING</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>DAMP-PROOFING TO WALLS</u></b>			
33	375 Micron embossed black polyethylene damp-proof course to walls, cills, etc. (measured net)	m2	3.00	
	<b><u>BILL NO 5: ROOF COVERINGS</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>Supplementary preambles in connection with fixing of sheeting and accessories and laps are to be inserted when the Model Preambles for Trades (or other preambles not covering the fixing of sheeting and accessories and laps) are used</u></b>			
	<b><u>When the pitch of troughed roof covering is less than 5 degrees or if dust proofing is required then the description of roof coverings "with side laps sealed" is to be used</u></b>			
	<b><u>Where roof coverings are fixed on top of rigid board insulation to purlins etc descriptions of roof coverings are to include therefore</u></b>			
	<b>Carried Forward</b>			R
	Section No. 4 Bill No. 1 Refurbishment of 1 x 3 Classrooms (3 Classrooms)			

	<b>Brought Forward</b>			R
	<u>Global Roofing Solutions 406mm cover</u> <u>Brownbuilt™ profile roll-formed in continuous</u> <u>lengths from 0.58mm thick Galvanised steel, Z200</u> <u>spelter ISQ550 Chromadek® Traffic Green finish top</u> <u>coat and Pebble Grey backing coat roof sheeting,</u> <u>fixed to timber intermediate purlins at MAX 1200mm</u> <u>centres and eaves and ridge purlins at MAX 1200mm</u> <u>centres using Duplex clips fixed with 10No.11 x</u> <u>45mm long self drilling wafer head PH2 screws, type</u> <u>17 drill point fasteners, all in accordance with the</u> <u>manufacturer's specifications by a GRS approved</u> <u>contractor.</u>			
34	Roof sheeting with pitch not exceeding 9° fixed to timber purlins (elsewhere)	m2	423.00	
	<b><u>'Klip-Lok 406' Flashings:</u></b>			
35	Ridge covering 450mm girth and fixed to timber purlins (elsewhere)	m	22.00	
36	Hip covering 450mm girth and fixed to timber purlins (elsewhere)	m	22	
	<b><u>ROOF AND WALL INSULATION</u></b>			
	<b><u>Sisalation 410 Insulation</u></b>			
37	100mm non-combustible lightweight fiberglass insulation blanket fitted between tie beams and laid loose on top of brandering undelay dressed over bottom purlin into gutter	m2	423	
	<b><u>ROOF VENTILATORS</u></b>			
	<b><u>Galvanized steel louvred ventilators:</u></b>			
38	Triangular shaped steel fixed louvred ventilator size 2100mm wide at base x 450mm high fixed into timber roof trusses.	No	2.00	
	<b><u>BILL NO 6: CARPENTRY AND JOINERY</u></b>			
	<b>Carried Forward</b>			R
Section No. 4 Bill No. 1 Refurbishment of 1 x 3 Classrooms (3 Classrooms)				



Brought Forward			R
<b>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</b>			
<b><u>ROOFS, ETC.</u></b>			
<b><u>Plate nailed timber roof truss construction</u></b>			
39	Roof truss construction for 9 degrees double pitched roof, including trusses, jack rafters, permanent bracing and 50 x 75mm purlins for 0,5mm "Brownbuilt Klip-Lok Light Industrial" galvanised troughed sheeting (measured elsewhere) including design and Engineers Certificate of Compliance. Building size: 29.42 x 10.81m with 0.5m overhangs at eaves	No	1.00
<b><u>WOOD PRESERVATIVE</u></b>			
40	Two coats wood preservative applied hot on wrought exposed roof timbers	m2	33.00
<b><u>FASCIAS AND BARGEBOARDS</u></b>			
<b><u>Tempered fibre-cement</u></b>			
41	15 x 225mm Fascia board countersunk screwed to roof timbers (elsewhere) with two brass screws at maximum 1200mm centres and jointed with and including standard aluminium half round cover strips at all joints	m	80.00
<b><u>DOORS</u></b>			
<b><u>NOTE</u></b> <b><u>: All framed and ledged batten doors and combination doors, where battens are utilized, shall only be of construction acceptable to the Department, i.e. mortice and tenon where the tenon is exposed on the outside edges of styles and where the tenon is wedged to form a dovetailed shape</u></b>			
<u>Solid framed &amp; Braced Door, to be prepared and to finished with suitable varnish for external use, to Architects approval</u>			
42	40mm Purpose made door 813 x 2032mm high (Type: SA 12)	No	9
Carried Forward			R
Section No. 4 Bill No. 1 Refurbishment of 1 x 3 Classrooms (3 Classrooms)			

Brought Forward				R
<b><u>JOINERY FITTINGS</u></b>				
<b><u>THE FOLLOWING IN PINNING BOARDS</u></b>				
<b><u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</u></b>				
<b><u>Pinning boards</u></b>				
43	2400mm x 1200mm high Felt pinning board. Colour: Stone. Deluxe anodised aluminium frame. Rounded plastic corners. Can be mounted horizontally or vertically. Including mounting brackets, screws and mounting Instructions	No	3.00	
<b><u>Interactive Whiteboard</u></b>				
44	Non-magnetic interactive whiteboard, 1 x Centre panel, 2 x Double sided panels on hinges which open and close Side Panels = 1200mm x 900mm - Centre Panel = 1.8m including DLP XGA 3600 ansi long throw projector, ceiling mount bracket, all cabling and other accessories, etc	No	3.00	
<b><u>BILL NO 7: CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b>				
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>				
<b><u>TIMBER</u></b>				
<b><u>: All softwood to be South African Pine</u></b>				
<b><u>CEILINGS</u></b>				
<b><u>Mineral wool insulation or similar approved</u></b>				
45	Cellulose ceiling insulation laid loose over ceiling in roof void	m2	236.00	
Carried Forward				R
Section No. 4				
Bill No. 1				
Refurbishment of 1 x 3 Classrooms (3 Classrooms)				

Brought Forward				R
<b><u>6mm "Cladit" fibre-cement ceilings boards or similar approved (Architect to advise)</u></b>				
46	Ceilings including H-type pressed steel jointing strips and 38 x 38mm sawn softwood banding at 400mm centres in one direction and around edges where required for fixing cornices, securely spiked to roof timbers	m2	236.00	
47	Extra over fibre-cement ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	3.00	
<b><u>"Rhino" Gypsum plasterboard cornices</u></b>				
48	75mm Coved cornices	m	189.00	
<b><u>BILL NO 8: IRONMONGERY</u></b>				
<b><u>NOTE</u></b>				
<b><u>: Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>				
<b><u>Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish</u></b>				
<b><u>THE FOLLOWING IRONMONGERY FIXED TO DOORS, ETC.</u></b>				
<b><u>HINGES</u></b>				
<b><u>"Union" or similar approved</u></b>				
49	100mm mild steel butterfly hinges	No	27.00	
<b><u>HANDLES</u></b>				
<b><u>Manufactured by Dormakaba or similar approved:</u></b>				
50	CB30 Satin chrome lever on plate with cylinder cutout	No	9	
Carried Forward				R
Section No. 4 Bill No. 1 Refurbishment of 1 x 3 Classrooms (3 Classrooms)				

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	Brought Forward		R	
	<b><u>Locks</u></b>			
51	460/313 Four Lever Lockset	No	9.00	
	<b><u>SUNDRIES</u></b>			
52	Stainless steel half moon door stop or similar approved, plugged and screwed to floor	No	15	
	<b><u>BATHROOM FITTINGS</u></b>			
	<b><u>"Solid"</u></b>			
53	Lockable 3 roll toilet roll holder plugged	No	6.00	
54	Wall mounted soap dispenser plugged to plastered or tiled walls	No	3.00	
55	Paper towel dispenser plugged	No	3	
	<b><u>CATCHES, CABIN HOOKS, ETC</u></b>			
	<b><u>Manufactured by Dormakaba or similar approved</u></b>			
56	Aluminium Hat & Coat Hook	No	6	
	<b><u>NUMERAL AND NAME PLATES</u></b>			
	<b><u>Clear perspex numeral plate reverse engraved and enamelled in numerals and/or letters, twice countersunk holed for and plugged to brickwork with chromium plated dome-headed screws</u></b>			
57	3mm Thick x 32mm wide plate with two numerals and/or letters	No	9.00	
	<b><u>Indicator plates countersunk holed for and screwed to door or brickwork with chromium plated dome-headed screws</u></b>			
58	190 x 190 x 3mm Thick white perspex international FB2 sign plate with red fire extinguisher symbol plugged to brickwork	No	3.00	
	<b>Carried Forward</b>			
	Section No. 4			
	Bill No. 1			
	Refurbishment of 1 x 3 Classrooms (3 Classrooms)			

Brought Forward				R
<b><u>BILL NO 9: METALWORK</u></b>				
<b><u>NOTE</u></b> <b><u>: Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>				
<b><u>EXPANSION BOLTS : Expansion bolts shall be fixed in accordance with the manufacturer's instructions and prices are to include for drilling mortice for sockets in brickwork or concrete for same</u></b>				
59	Double gate with leaf formed of 50 x 25 x 1.6mm rectangular hollow section framing all round mitred and welded at angles with two 25 x 25 x 1.6mm mild steel square section 10mm diameter horizontal intermediate rails with ends welded to framing and with eight 19mm diameter rod vertical bars framed through intermediate rails with ends welded to framing	No	3.00	
<b><u>STEEL BALUSTRADING</u></b>				
<b><u>GALVANISED STEEL BALUSTRADES</u></b>				
<b><u>Welded balustrading to walkways</u></b>				
60	100 x 100 x 5mm Square hollow section posts	m	152.00	
<b><u>DOOR FRAMES, DOORS, WINDOWS, ETC.</u></b>				
<b><u>PRESSED STEEL DOOR FRAMES</u></b>				
<b><u>1,2mm Double rebated frames suitable for one brick walls</u></b>				
61	Frame for door size 877 x 2064mm high (Door type SA 02)	No	9.00	
<b><u>STEEL WINDOWS, DOORS, ETC</u></b>				
<b><u>GALVANISED STEEL WINDOWS, DOORS, ETC</u></b>				
<b><u>Standard school windows</u></b>				
62	Window type TS02, 1 143 x 654mm high	No	6	
Carried Forward				R
Section No. 4 Bill No. 1 Refurbishment of 1 x 3 Classrooms (3 Classrooms)				

	Brought Forward		R	
	<b><u>STEEL WINDOW SUNDRIES</u></b>			
63	25 x 25 x 3mm Mild steel square tube beading mitred and welded to window or door framing on inside at junction with facings	m2	7	
64	Extra for flat closed end	No	9.00	
	<b><u>BILL NO 10: PLASTERING</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>INTERNAL PLASTER</u></b>			
	<b><u>ONE COAT (4:1) CEMENT PLASTER FINISHED TO A SMOOTH AND EVEN STEEL TROWELLED SURFACE</u></b>			
	<b><u>On brickwork</u></b>			
65	On walls	m2	373.00	
66	On narrow widths	m2	16.00	
	<b><u>BILL NO 11: TILING</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>FLOOR TILES</u></b>			
	<b><u>600 x 600 mm Charcoal Grey full bodied non slip floor porcelain tiles with adhesive to power floated concrete and flush pointed with grout. Tiles are to be laid in accordance with architects design layout. adhesive by specialist supplier and to architect's approval. Tile grout to be approved by architect prior to fixing</u></b>			
67	On floors	m2	246.00	
68	Skirting 100mm high	m	133	
	<b>Carried Forward</b>			
	Section No. 4			
	Bill No. 1			
	Refurbishment of 1 x 3 Classrooms (3 Classrooms)			

Brought Forward			R
<b><u>BILL NO 12: PLUMBING AND DRAINAGE</u></b> <b><u>(PROVISIONAL)</u></b>			
<b><u>NOTE : Tenderers are advised to study the</u></b> <b><u>"Specification of Materials and Methods to be used"</u></b> <b><u>(OOG-001E) before pricing this bill</u></b>			
<b><u>RAINWATER DISPOSAL</u></b>			
<b><u>0.58mm Galvanized sheet iron with Chromadek</u></b> <b><u>finish to match roof sheeting:</u></b>			
69	100 x 75mm Eaves gutters with beaded front edge.	m	80.00
70	Extra over eaves gutter for angle.	No	14.00
71	Extra over eaves gutter for outlet for 100 x 75mm pipe.	No	14.00
72	100 x 75mm Rainwater pipe.	m	37.00
73	Extra over rainwater pipe for shoe.	No	14.00
74	Extra over rainwater pipe for eaves or plinth offset 600mm projection.	No	14.00
<b><u>SANITARY FITTINGS</u></b>			
75	Vaal Sanitaryware vitreous china 510 x 405mm rounded "Hibiscus" basin with three semi-punched tap holes integrated overflow, and chain stay hole through the centre semi-punched tap hole.	No	3.00
76	Vaal Sanitaryware vitreous china "Daisy" semi-close coupled 90° outlet open rim washdown pan (code 751400) and matching 9 litre cistern (code 7116SC) complete with lid, fitments and flush pipe elbow.	No	6.00
<b><u>Traps, etc. including joints to steel pipes and/or</u></b> <b><u>fittings unless otherwise described</u></b>			
77	40mm Butyl rubber deep seal P or S trap	No	3.00
Carried Forward			R
Section No. 4 Bill No. 1 Refurbishment of 1 x 3 Classrooms (3 Classrooms)			

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	Brought Forward		R	
	<b><u>Valves, etc. including joints to steel pipes and/or fittings unless otherwise described</u></b>			
78	15mm Copper service pipe 350mm girth	m	22	
79	15mm chromium plated sink mixer	No	3	
	<b><u>SANITARY PLUMBING</u></b>			
	<b><u>uPVC pipes</u></b>			
80	110mm uPVC Pipe laid in/under floors or fixed to walls, roof timbers, etc.	m	16.00	
	<b><u>Extra over uPVC pipes for fittings</u></b>			
81	110 x 50mm Reducer	No	3.00	
82	110mm Bend	No	3.00	
83	110mm Junction	No	3.00	
84	110mm Pan connector	No	3.00	
85	110mm VP stub stack fitting with ABC cleaning eye lid and multiple connections for 50mm waste	No	3.00	
86	110mm Access bend	No	3.00	
87	110mm Access bend with anti-syphon horn	No	3.00	
88	110mm Access junction	No	3.00	
89	110mm Access reducing junction	No	3.00	
90	Two way uPVC air admittance valve suitable for 50mm pipe	No	3.00	
	<b><u>WATER SUPPLY</u></b>			
	<b><u>Class 3 copper pipes and fittings with capillary soldered connections</u></b>			
91	15mm Pipe chased into walls	m	28.00	
	Carried Forward			R
Section No. 4 Bill No. 1 Refurbishment of 1 x 3 Classrooms (3 Classrooms)				



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Brought Forward			R
<b><u>Extra over class 3 copper pipes for soldered capillary fittings</u></b>			
92	15mm Fittings	No	3.00
<b><u>Fire appliances, etc.</u></b>			
93	9kg DCP dry powder portable fire extinguisher on and including wrought Meranti backboard size 520 x 100 x 22mm thick plugged and screwed to wall and finished with two coats of polyurethane varnish, including 120 x 20 x 2mm mild steel strip bent to form hook	No	3.00
94	Fire Fyter Model 2000 or similar approved, fire hose reel with 30m long hose including jointing to steel supply pipe and fixing to wall	No	1.00
<b><u>TESTING</u></b>			
95	Provide all necessary apparatus, water, etc. for and test the whole of the Sanitary Plumbing and Water Supply installation to the satisfaction of the Representative/Agent and the Local Authority, rectify all defective work free of charge and leave in perfect order	Item	
<b><u>BILL NO 13: GLAZING</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
<b><u>Glass in steel fixed with putty</u></b>			
96	5mm Clear Float glass fixed with glazing putty exceeding 2m <sup>2</sup> and not exceeding 4m <sup>2</sup> square metre in area	m2	35.00
<b><u>BILL NO 14: PAINTWORK</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
<b><u>PAINT ON PLASTER, ETC.</u></b>			
Carried Forward			R
Section No. 4 Bill No. 1 Refurbishment of 1 x 3 Classrooms (3 Classrooms)			

	<b>Brought Forward</b>			R	
	<b><u>Prepare and apply one merit universal undercoat and two coats "Polvin" super acrylic PVA paint</u></b>				
97	On walls	m2	373.00		
	<b><u>PAINT ON FIBRE CEMENT</u></b>				
	<b><u>Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use</u></b>				
98	On external fibre-cement fascias and bargeboards including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	37.00		
	<b><u>PAINT ON GYPSUM SURFACES</u></b>				
	<b><u>Prepare, stop and apply two full coats semi-gloss PVA co-polymer paint to comply with SABS Specification No. 643</u></b>				
99	On internal plasterboard ceilings including priming steel joints and nail heads with one coat zinc phosphate alkyd resin primer	m2	236.00		
	<b><u>PAINT ON METAL</u></b>				
	<b><u>Prepare, touch up factory primer and apply one coat universal undercoat and two full coats high gloss enamel paint</u></b>				
100	On sashes and frames with burglar bars (both sides measured)	m2	35.00		
	<b><u>Prepare and apply one coat universal undercoat, two coats gloss enamel paint.</u></b>				
101	On pressed steel door frames	m2	9.00		
	<b><u>PAINT ON WOOD</u></b>				
	<b><u>Prepare and apply one coat hardboard primer, one coat universal undercoat and two full coats high gloss enamel paint</u></b>				
102	On doors	m2	26.00		
	<b>Carried to Final Summary</b>			R	
	Section No. 4				
	Bill No. 1				
	Refurbishment of 1 x 3 Classrooms (3 Classrooms)				

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Item No	Quantity	Rate	Amount
<b><u>Refurbishment of 1 × 4 Classroom Block (4 Classrooms)</u></b>			
<b><u>BILL NO 1</u></b>			
<b><u>ALTERATIONS</u></b>			
<u>User note</u>			
<i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i>			
<i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i>			
<i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i>			
<i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i>			
<u>View site</u>			
Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials salvageable from the alterations. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained			
<u>Explosives</u>			
No explosives whatsoever may be used for alteration purposes unless otherwise stated			
<b>Carried Forward</b>			R
Section No. 5 Bill No. 1 Refurbishment of 1 x 4 Classroom Block (4 Classrooms)			

<b>Brought Forward</b>	R
<p><u>General</u></p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to tenants in the building and to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p> <p>Doors, fanlights, windows, fittings, frames, linings, etc which are to remain the property of the employer shall be carefully taken out, temporarily stored, transported over a distance of approximately 10km to store and handed over to the employer</p> <p>Doors, fanlights, windows, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately</p> <p>Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc</p> <p>Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc</p> <p>With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork</p> <p>Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary</p> <p>The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)</p>	
<b>Carried Forward</b>	R
<p>Section No. 5</p> <p>Bill No. 1</p> <p>Refurbishment of 1 x 4 Classroom Block (4 Classrooms)</p>	

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<b>Brought Forward</b>			<b>R</b>
<b><u>REMOVAL OF EXISTING WORK</u></b>			
<u>Breaking up and removing reinforced concrete, including cutting off and removing reinforcement</u>			
1	Stairs and landings	m3	3
<u>Taking out and removing doors, windows, etc from brickwork to remain</u>			
2	Timber doors and frames not exceeding 2,5m <sup>2</sup>	No	4
3	Glazed steel window not exceeding 2,5m <sup>2</sup>	No	12
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>			
4	Profiled sheet steel roof covering and timber purlins (Only where instructed by Architect)	m2	522
5	Fascias and barge boards	m	99
6	Eaves gutters including brackets	m	99
7	Downpipes including brackets, etc.	m	32
8	Gypsum plasterboard ceilings, including timber bandering, cornices, etc	m2	315
<u>Breaking down and removing brickwork etc</u>			
9	One brick walls	m2	21
<u>Taking out and removing sundry joinery work, fittings, etc.</u>			
10	Timber wall cupboard 1 850 wide x 2 125mm high	No	4
11	Gypsum coved cornices	m	250
12	Timber skirtings	m	173
<u>Taking up and removing wood block floor coverings, vinyl floor coverings, carpets, etc and preparing screeds for new floor coverings</u>			
13	Vinyl tile floor covering	m2	234
<b>Carried Forward</b>			<b>R</b>
Section No. 5 Bill No. 1 Refurbishment of 1 x 4 Classroom Block (4 Classrooms)			

Brought Forward			R
	<u>Taking out and removing ironmongery</u>		
14	Mortice lockset from timber door	No	4
15	Door closer from timber door and frame	No	4
	<u>Taking out and removing sanitary fittings, tanks, geysers, etc, including disconnecting from pipes, traps, etc and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>		
16	Vitreous china WC pan with cistern and flush pipe	No	12
	<u>Taking out/off and removing glass and mirrors</u>		
17	Glass from steel windows, including cleaning out rebates and preparing for new glass	m2	42
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u>		
18	Internal plaster from walls and columns	m2	658
	<b><u>OPENINGS THROUGH EXISTING WALLS ETC</u></b>		
	<u>Breaking out for and forming plain openings through brick walls, including prestressed concrete lintels, making good cement plaster on both sides and into reveals and with 20 MPa concrete thresholds with steel trowelled finish (making good paintwork elsewhere)</u>		
19	One brick walls of NFP bricks in class II mortar in building up openings	m2	6
	<b><u>CUTTING THROUGH FLOORS AND CEILINGS</u></b>		
	<u>Cutting through:</u>		
20	Gypsum plasterboard ceilings and timber brandering for One brick walls, including making good on both sides of walls, necessary additional brandering etc (new cornices elsewhere)	m	56
	<b><u>BUILDING UP OPENINGS</u></b>		
Carried Forward			R
Section No. 5 Bill No. 1 Refurbishment of 1 x 4 Classroom Block (4 Classrooms)			

Brought Forward			R
	<u>One brick wall face bricks pointed with flush horizontal and vertical joints</u>		
21	Cutting toothings and bonding new face brickwork to existing	m	14
	<b><u>MAKING GOOD CEMENT SCREED</u></b>		
22	New screed on floors	m2	315
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>		
	<b><u>Foundation brickwork and concrete walls have been measured to top of unfinished floor level</u></b>		
	<b><u>BILL NO 2: CONCRETE, FORMWORK AND REINFORCEMENT</u></b>		
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>		
	<b><u>CONCRETE</u></b>		
	<b><u>Concrete test cubes</u></b>		
23	Prepare set of three 150 x 150 x 150mm concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for.	No	4.00
	<b><u>REINFORCED CONCRETE</u></b>		
	<b><u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 20MPa at 28 days</u></b>		
24	In aprons slabs	m3	15.00
25	In stairs	m3	4.00
	Carried Forward		R
	Section No. 5 Bill No. 1 Refurbishment of 1 x 4 Classroom Block (4 Classrooms)		

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		Brought Forward			R
		<b><u>Sundries</u></b>			
26	Finish raking top surface of concrete slabs, etc. to a smooth and even wood floated surface including additional dry sand/cement mixture added as necessary whilst the concrete is still wet	m2	162.00		
		<b><u>FORMWORK</u></b>			
		<b><u>Rough Formwork</u></b>			
27	Edges, risers, ends and reveals not exceeding 300mm high	m	106.00		
		<b><u>BILL NO 3: MASONRY</u></b>			
		<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
		<b><u>BRICKWORK IN BURNT CLAY BRICKS IN (5:1) CEMENT MORTAR</u></b>			
28	One brick wall	m2	37.00		
		<b><u>BRICK REINFORCEMENT</u></b>			
29	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	109.00		
		<b><u>TEMPORARY TURNING PIECES, ETC.</u></b>			
30	To flat brick lintels not exceeding 300mm wide	m	15.00		
		<b><u>SUNDRIES</u></b>			
31	38 x 1,6mm Galvanised hoop iron iron roof tie with one end built six courses deep into top of brickwork and other end wrapped around and nailed to trusses	No	198.00		
		<b><u>FACED BRICKWORK</u></b>			
		<b>Carried Forward</b>			R
	Section No. 5				
	Bill No. 1				
	Refurbishment of 1 x 4 Classroom Block (4 Classrooms)				



	<b>Brought Forward</b>			R
	<b><u>External facings in approved face bricks (FBS) with a PC Amount of R4,500.00 per thousand bricks delivered to site (excluding VAT) pointed with square recessed horizontal and vertical joints</u></b>			
32	Extra over ordinary brickwork for facing and pointing in stretcher bond	m2	37.00	
	<b><u>Sundries</u></b>			
33	Construct a sample panel 2m long x 1,5m high of one brick wall in cement mortar faced and pointed on both sides in stretcher bond and with brick-on-edge coping to top including pointing to top and both sides and with and including necessary excavations for and including 15MPa/38mm mass concrete strip footing in a position as directed by the Representative/Agent and including demolishing and removal after completion of all brickwork (Provisional)	No	2.00	
	<b><u>BILL NO 4: WATERPROOFING</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>DAMP-PROOFING TO WALLS</u></b>			
34	375 Micron embossed black polyethylene damp-proof course to walls, cills, etc. (measured net)	m2	4.00	
	<b><u>BILL NO 5: ROOF COVERINGS</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>Supplementary preambles in connection with fixing of sheeting and accessories and laps are to be inserted when the Model Preambles for Trades (or other preambles not covering the fixing of sheeting and accessories and laps) are used</u></b>			
	<b>Carried Forward</b>			R
Section No. 5 Bill No. 1 Refurbishment of 1 x 4 Classroom Block (4 Classrooms)				

	<b>Brought Forward</b>			R
	<p><u>When the pitch of troughed roof covering is less than 5 degrees or if dust proofing is required then the description of roof coverings "with side laps sealed" is to be used</u></p> <p><u>Where roof coverings are fixed on top of rigid board insulation to purlins etc descriptions of roof coverings are to include therefore</u></p> <p><u>Global Roofing Solutions 406mm cover Brownbuilt™ profile roll-formed in continuous lengths from 0.58mm thick Galvanised steel, Z200 spelter ISQ550 Chromadek® Traffic Green finish top coat and Pebble Grey backing coat roof sheeting, fixed to timber intermediate purlins at MAX 1200mm centres and eaves and ridge purlins at MAX 1200mm centres using Duplex clips fixed with 10No.11 x 45mm long self drilling wafer head PH2 screws, type 17 drill point fasteners, all in accordance with the manufacturer's specifications by a GRS approved contractor.</u></p>			
35	Roof sheeting with pitch not exceeding 9° fixed to timber purlins (elsewhere)	m2	522.00	
	<b><u>'Klip-Lok 406' Flashings:</u></b>			
36	Ridge covering 450mm girth and fixed to timber purlins (elsewhere)	m	31.00	
37	Hip covering 450mm girth and fixed to timber purlins (elsewhere)	m	22	
	<b><u>ROOF AND WALL INSULATION</u></b>			
	<b><u>Sisalation 410 Insulation</u></b>			
38	100mm non-combustible lightweight fiberglass insulation blanket fitted between tie beams and laid loose on top of bracker undelay dressed over bottom purlin into gutter	m2	522	
	<b><u>ROOF VENTILATORS</u></b>			
	<b>Carried Forward</b>			R
	<p>Section No. 5 Bill No. 1 Refurbishment of 1 x 4 Classroom Block (4 Classrooms)</p>			

	Brought Forward			R
	<b><u>Galvanized steel louvred ventilators:</u></b>			
39	Triangular shaped steel fixed louvred ventilator size 2100mm wide at base x 450mm high fixed into timber roof trusses.	No	2.00	
	<b><u>BILL NO 6: CARPENTRY AND JOINERY</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>ROOFS, ETC.</u></b>			
	<b><u>Plate nailed timber roof truss construction</u></b>			
40	Roof truss construction for 9 degrees double pitched roof, including trusses, jack rafters, permanent bracing and 50 x 75mm purlins for 0,5mm "Brownbuilt Klip-Lok Light Industrial" galvanised troughed sheeting (measured elsewhere) including design and Engineers Certificate of Compliance. Building size: 38.61 x 10.81m with 0.5m overhangs at eaves	No	1.00	
	<b><u>WOOD PRESERVATIVE</u></b>			
41	Two coats wood preservative applied hot on wrought exposed roof timbers	m2	28.00	
	<b><u>FASCIAS AND BARGEBOARDS</u></b>			
	<b><u>Tempered fibre-cement</u></b>			
42	15 x 225mm Fascia board countersunk screwed to roof timbers (elsewhere) with two brass screws at maximum 1200mm centres and jointed with and including standard aluminium half round cover strips at all joints	m	99.00	
	<b><u>THE FOLLOWING IN SHELVING IN STORE ROOMS</u></b>			
	<b><u>Melamine shelving</u></b>			
43	Timber wall cupboard 1 850 wide x 2 125mm high	No	4	
	<b><u>DOORS</u></b>			
	<b>Carried Forward</b>			R
	Section No. 5 Bill No. 1 Refurbishment of 1 x 4 Classroom Block (4 Classrooms)			

Brought Forward			R
<b><u>NOTE</u></b> <b><u>: All framed and ledged batten doors and combination doors, where battens are utilized, shall only be of construction acceptable to the Department, i.e. mortice and tenon where the tenon is exposed on the outside edges of styles and where the tenon is wedged to form a dovetailed shape</u></b>  <u>Solid framed &amp; Braced Door, to be prepared and to finished with suitable varnish for external use, to Architects approval</u>			
44	40mm Purpose made door 813 x 2032mm high (Type: SA 12)	No	12
<b><u>JOINERY FITTINGS</u></b>  <b><u>THE FOLLOWING IN PINNING BOARDS</u></b>  <b><u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</u></b>  <b><u>Pinning boards</u></b>			
45	2400mm x 1200mm high Felt pinning board. Colour: Stone. Deluxe anodised aluminium frame. Rounded plastic corners. Can be mounted horizontally or vertically. Including mounting brackets, screws and mounting Instructions	No	4.00
<b><u>Interactive Whiteboard</u></b>			
46	Non-magnetic interactive whiteboard, 1 x Centre panel, 2 x Double sided panels on hinges which open and close Side Panels = 1200mm x 900mm - Centre Panel = 1.8m including DLP XGA 3600 ansi long throw projector, ceiling mount bracket, all cabling and other accessories, etc	No	4.00
<b><u>Nu-tec Board</u></b>			
47	20mm Thick Board as internal window cill	m	14
<b><u>BILL NO 7: CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b>			
Carried Forward			R
Section No. 5 Bill No. 1 Refurbishment of 1 x 4 Classroom Block (4 Classrooms)			

Brought Forward				R
<b>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</b>				
<b><u>TIMBER</u> : All softwood to be South African Pine</b>				
<b><u>CEILINGS</u></b>				
<b><u>Mineral wool insulation or similar approved</u></b>				
48	Cellulose ceiling insulation laid loose over ceiling in roof void	m2	315.00	
<b><u>6mm "Cladit" fibre-cement ceilings boards or similar approved (Architect to advise)</u></b>				
49	Ceilings including H-type pressed steel jointing strips and 38 x 38mm sawn softwood banding at 400mm centres in one direction and around edges where required for fixing cornices, securely spiked to roof timbers	m2	315.00	
50	Extra over fibre-cement ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	4.00	
<b><u>"Rhino" Gypsum plasterboard cornices</u></b>				
51	75mm Coved cornices	m	250.00	
<b><u>BILL NO 8: IRONMONGERY</u></b>				
<b><u>NOTE</u> : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</b>				
<b><u>Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish</u></b>				
<b><u>THE FOLLOWING IRONMONGERY FIXED TO DOORS, ETC.</u></b>				
Carried Forward				R
Section No. 5 Bill No. 1 Refurbishment of 1 x 4 Classroom Block (4 Classrooms)				

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Brought Forward			R
<b><u>HINGES</u></b>			
<b><u>"Union" or similar approved</u></b>			
52	100mm mild steel butterfly hinges	No	24.00
<b><u>HANDLES</u></b>			
<b><u>Manufactured by Dormakaba or similar approved:</u></b>			
53	CB30 Satin chrome lever on plate with cylinder cutout	No	12
<b><u>Locks</u></b>			
54	460/313 Four Lever Lockset	No	12.00
<b><u>SUNDRIES</u></b>			
55	Stainless steel half moon door stop or similar approved, plugged and screwed to floor	No	20
<b><u>BATHROOM FITTINGS</u></b>			
<b><u>"Solid"</u></b>			
56	Lockable 3 roll toilet roll holder plugged	No	8.00
57	Wall mounted soap dispenser plugged to plastered or tiled walls	No	4.00
58	Paper towel dispenser plugged	No	4
<b><u>CATCHES, CABIN HOOKS, ETC</u></b>			
<b><u>Manufactured by Dormakaba or similar approved</u></b>			
59	Aluminium Hat & Coat Hook	No	8
<b><u>NUMERAL AND NAME PLATES</u></b>			
Carried Forward			R
Section No. 5 Bill No. 1 Refurbishment of 1 x 4 Classroom Block (4 Classrooms)			

Brought Forward			R
	<u>Clear perspex numeral plate reverse engraved and enamelled in numerals and/or letters, twice countersunk holed for and plugged to brickwork with chromium plated dome-headed screws</u>		
60	3mm Thick x 32mm wide plate with two numerals and/or letters	No	12.00
	<u>Indicator plates countersunk holed for and screwed to door or brickwork with chromium plated dome-headed screws</u>		
61	190 x 190 x 3mm Thick white perspex international FB2 sign plate with red fire extinguisher symbol plugged to brickwork	No	4.00
	<b><u>BILL NO 9: METALWORK</u></b>		
	<b><u>NOTE</u></b> <b><u>: Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>		
	<b><u>EXPANSION BOLTS : Expansion bolts shall be fixed in accordance with the manufacturer's instructions and prices are to include for drilling mortice for sockets in brickwork or concrete for same</u></b>		
62	Double gate with leaf formed of 50 x 25 x 1.6mm rectangular hollow section framing all round mitred and welded at angles with two 25 x 25 x 1.6mm mild steel square section 10mm diameter horizontal intermediate rails with ends welded to framing and with eight 19mm diameter rod vertical bars framed through intermediate rails with ends welded to framing	No	4.00
	<b><u>STEEL BALUSTRADING</u></b>		
	<b><u>GALVANISED STEEL BALUSTRADES</u></b>		
	<b><u>Welded balustrading to walkways</u></b>		
63	100 x 100 x 5mm Square hollow section posts	m	180.00
	<b><u>DOOR FRAMES, DOORS, WINDOWS, ETC.</u></b>		
	<b><u>PRESSED STEEL DOOR FRAMES</u></b>		
	<b>Carried Forward</b>		
	Section No. 5 Bill No. 1 Refurbishment of 1 x 4 Classroom Block (4 Classrooms)		
			R

		Brought Forward			R
<u>1,2mm Double rebated frames suitable for one brick walls</u>					
64	Frame for door size 877 x 2064mm high (Door type SA 02)	No	12.00		
<u>STEEL WINDOWS, DOORS, ETC</u>					
<u>GALVANISED STEEL WINDOWS, DOORS, ETC</u>					
<u>Standard school windows</u>					
65	Window type TS02, 1 143 x 654mm high	No	8		
<u>STEEL WINDOW SUNDRIES</u>					
66	25 x 25 x 3mm Mild steel square tube beading mitred and welded to window or door framing on inside at junction with facings	m2	6		
67	Extra for flat closed end	No	8.00		
<u>BILL NO 10: PLASTERING</u>					
<u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u>					
<u>INTERNAL PLASTER</u>					
<u>ONE COAT (4:1) CEMENT PLASTER FINISHED TO A SMOOTH AND EVEN STEEL TROWELLED SURFACE</u>					
<u>On brickwork</u>					
68	On walls	m2	658.00		
69	On narrow widths	m2	21.00		
<u>BILL NO 11: TILING</u>					
<u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u>					
		Carried Forward			R
Section No. 5 Bill No. 1 Refurbishment of 1 x 4 Classroom Block (4 Classrooms)					



	Brought Forward			R
	<b><u>FLOOR TILES</u></b>			
	<b><u>600 x 600 mm Charcoal Grey full bodied non slip floor porcelain tiles with adhesive to power floated concrete and flush pointed with grout. Tiles are to be laid in accordance with architects design layout. adhesive by specialist supplier and to architect's approval. Tile grout to be approved by architect prior to fixing</u></b>			
70	On floors	m2	315.00	
71	Skirting 100mm high	m	173	
	<b><u>BILL NO 12: PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>RAINWATER DISPOSAL</u></b>			
	<b><u>0.58mm Galvanized sheet iron with Chromadek finish to match roof sheeting:</u></b>			
72	100 x 75mm Eaves gutters with beaded front edge.	m	99.00	
73	Extra over eaves gutter for angle.	No	12.00	
74	Extra over eaves gutter for outlet for 100 x 75mm pipe.	No	12.00	
75	100 x 75mm Rainwater pipe.	m	32.00	
76	Extra over rainwater pipe for shoe.	No	12.00	
77	Extra over rainwater pipe for eaves or plinth offset 600mm projection.	No	12.00	
	<b><u>SANITARY FITTINGS</u></b>			
78	Vaal Sanitaryware vitreous china 510 x 405mm rounded "Hibiscus" basin with three semi-punched tap holes integrated overflow, and chain stay hole through the centre semi-punched tap hole.	No	4.00	
	<b>Carried Forward</b>			R
	Section No. 5 Bill No. 1 Refurbishment of 1 x 4 Classroom Block (4 Classrooms)			

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	Brought Forward		R	
79	Vaal Sanitaryware vitreous china "Daisy" semi-close coupled 90° outlet open rim washdown pan (code 751400) and matching 9 litre cistern (code 7116SC) complete with lid, fitments and flush pipe elbow.	No	8.00	
	<b><u>Traps, etc. including joints to steel pipes and/or fittings unless otherwise described</u></b>			
80	40mm Butyl rubber deep seal P or S trap	No	4.00	
	<b><u>Valves, etc. including joints to steel pipes and/or fittings unless otherwise described</u></b>			
81	15mm Copper service pipe 350mm girth	m	12	
82	15mm chromium plated sink mixer	No	4	
	<b><u>SANITARY PLUMBING</u></b>			
	<b><u>uPVC pipes</u></b>			
83	110mm uPVC Pipe laid in/under floors or fixed to walls, roof timbers, etc.	m	40.00	
	<b><u>Extra over uPVC pipes for fittings</u></b>			
84	110 x 50mm Reducer	No	8.00	
85	110mm Bend	No	8.00	
86	110mm Junction	No	8.00	
87	110mm Pan connector	No	8.00	
88	110mm VP stub stack fitting with ABC cleaning eye lid and multiple connections for 50mm waste	No	8.00	
89	110mm Access bend	No	8.00	
90	110mm Access bend with anti-syphon horn	No	8.00	
91	110mm Access junction	No	8.00	
92	110mm Access reducing junction	No	8.00	
	<b>Carried Forward</b>			R
	Section No. 5			
	Bill No. 1			
	Refurbishment of 1 x 4 Classroom Block (4 Classrooms)			

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	Brought Forward			R
93	Two way uPVC air admittance valve suitable for 50mm pipe	No	8.00	
	<b><u>WATER SUPPLY</u></b>			
	<b><u>Class 3 copper pipes and fittings with capillary soldered connections</u></b>			
94	15mm Pipe chased into walls	m	32.00	
	<b><u>Extra over class 3 copper pipes for soldered capillary fittings</u></b>			
95	15mm Fittings	No	8.00	
	<b><u>Fire appliances, etc.</u></b>			
96	9kg DCP dry powder portable fire extinguisher on and including wrought Meranti backboard size 520 x 100 x 22mm thick plugged and screwed to wall and finished with two coats of polyurethane varnish, including 120 x 20 x 2mm mild steel strip bent to form hook	No	4.00	
97	Fire Fyter Model 2000 or similar approved, fire hose reel with 30m long hose including jointing to steel supply pipe and fixing to wall	No	1.00	
	<b><u>TESTING</u></b>			
98	Provide all necessary apparatus, water, etc. for and test the whole of the Sanitary Plumbing and Water Supply installation to the satisfaction of the Representative/Agent and the Local Authority, rectify all defective work free of charge and leave in perfect order		Item	
	<b><u>BILL NO 13: GLAZING</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>Glass in steel fixed with putty</u></b>			
99	5mm Clear Float glass fixed with glazing putty exceeding 2m <sup>2</sup> and not exceeding 4m <sup>2</sup> square metre in area	m2	51.00	
	<b>Carried Forward</b>			R
	Section No. 5			
	Bill No. 1			
	Refurbishment of 1 x 4 Classroom Block (4 Classrooms)			

	<b>Brought Forward</b>			R
	<b><u>BILL NO 14: PAINTWORK</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>PAINT ON PLASTER, ETC.</u></b>			
	<b><u>Prepare and apply one merit universal undercoat and two coats "Polvin" super acrylic PVA paint</u></b>			
100	On walls	m2	658.00	
	<b><u>PAINT ON FIBRE CEMENT</u></b>			
	<b><u>Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use</u></b>			
101	On external fibre-cement fascias and bargeboards including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	23.00	
	<b><u>PAINT ON GYPSUM SURFACES</u></b>			
	<b><u>Prepare, stop and apply two full coats semi-gloss PVA co-polymer paint to comply with SABS Specification No. 643</u></b>			
102	On internal plasterboard ceilings including priming steel joints and nail heads with one coat zinc phosphate alkyd resin primer	m2	315.00	
	<b><u>PAINT ON METAL</u></b>			
	<b><u>Prepare, touch up factory primer and apply one coat universal undercoat and two full coats high gloss enamel paint</u></b>			
103	On sashes and frames with burglar bars (both sides measured)	m2	51.00	
	<b><u>Prepare and apply one coat universal undercoat, two coats gloss enamel paint.</u></b>			
104	On pressed steel door frames	m2	12.00	
	<b><u>PAINT ON WOOD</u></b>			
	<b>Carried Forward</b>			R
Section No. 5				
Bill No. 1				
Refurbishment of 1 x 4 Classroom Block (4 Classrooms)				

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Brought Forward			R
105	<u>Prepare and apply one coat hardboard primer, one coat universal undercoat and two full coats high gloss enamel paint</u> On doors	m2	30.00
Carried to Final Summary			R
Section No. 5 Bill No. 1 Refurbishment of 1 x 4 Classroom Block (4 Classrooms)			

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Item No	Quantity	Rate	Amount
<b><u>Conversion of Building 8 into Nutrition Centre</u></b>			
<b><u>BILL NO 1</u></b>			
<b><u>ALTERATIONS</u></b>			
<u>User note</u>			
<i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i>			
<i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i>			
<i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i>			
<i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i>			
<u>View site</u>			
Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials salvageable from the alterations. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained			
<u>Explosives</u>			
No explosives whatsoever may be used for alteration purposes unless otherwise stated			
<b>Carried Forward</b>		R	
Section No. 6			
Bill No. 1			
Conversion of Building 8 into Nutrition Centre			

<b>Brought Forward</b>	R
<p><u>General</u></p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to tenants in the building and to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p> <p>Doors, fanlights, windows, fittings, frames, linings, etc which are to remain the property of the employer shall be carefully taken out, temporarily stored, transported over a distance of approximately 10km to store and handed over to the employer</p> <p>Doors, fanlights, windows, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately</p> <p>Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc</p> <p>Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc</p> <p>With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork</p> <p>Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary</p> <p>The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)</p>	
<b>Carried Forward</b>	R
<p>Section No. 6</p> <p>Bill No. 1</p> <p>Conversion of Building 8 into Nutrition Centre</p>	

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<b>Brought Forward</b>			<b>R</b>
<b><u>REMOVAL OF EXISTING WORK</u></b>			
<u>Breaking up and removing reinforced concrete, including cutting off and removing reinforcement</u>			
1	Stairs and landings	m3	3
<u>Taking out and removing doors, windows, etc from brickwork to remain</u>			
2	Timber doors and frames not exceeding 2,5m <sup>2</sup>	No	11
3	Glazed steel window not exceeding 2,5m <sup>2</sup>	No	6
<u>Taking out doors, windows, etc, including thresholds, sills, etc, setting aside for re-use and later refixing in similar new position</u>			
4	Timber double door and frame exceeding 2,5m <sup>2</sup> and not exceeding 5m <sup>2</sup>	No	1
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>			
5	Profiled sheet steel roof covering and timber purlins (Only where instructed by Architect)	m2	247
6	Fascias and barge boards	m	57
7	Eaves gutters including brackets	m	57
8	Downpipes including brackets, etc.	m	14
9	Gypsum plasterboard ceilings, including timber bandering, cornices, etc	m2	148
<u>Breaking down and removing brickwork etc</u>			
10	One brick walls	m2	175
<u>Taking out and removing sundry joinery work, fittings, etc.</u>			
11	Gypsum coved cornices	m	169
12	Timber skirtings	m	133
<b>Carried Forward</b>			<b>R</b>
Section No. 6 Bill No. 1 Conversion of Building 8 into Nutrition Centre			



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<b>Brought Forward</b>			R
	<u>Taking up and removing wood block floor coverings, vinyl floor coverings, carpets, etc and preparing screeds for new floor coverings</u>		
13	Vinyl tile floor covering	m2	139
	<u>Taking out and removing ironmongery</u>		
14	Mortice lockset from timber door	No	12
15	Door closer from timber door and frame	No	13
	<u>Taking out/off and removing glass and mirrors</u>		
16	Glass from steel windows, including cleaning out rebates and preparing for new glass	m2	15
	<u>Taking out and removing sanitary fittings, tanks, geysers, etc, including disconnecting from pipes, traps, etc and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>		
17	Wash hand basin	No	1
18	Vitreous china WC pan with cistern and flush pipe	No	1
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u>		
19	Internal plaster from walls and columns	m2	412
	<b><u>BUILDING UP OPENINGS</u></b>		
	<u>Breaking out for and forming plain openings through brick walls, including prestressed concrete lintels, making good cement plaster on both sides and into reveals and with 20 MPa concrete thresholds with steel trowelled finish (making good paintwork elsewhere)</u>		
20	One brick walls of NFP bricks in class II mortar in building up openings	m2	16
	<b><u>OPENINGS THROUGH EXISTING WALLS ETC</u></b>		
	<b><u>CUTTING THROUGH FLOORS AND CEILINGS</u></b>		
<b>Carried Forward</b>			R
Section No. 6 Bill No. 1 Conversion of Building 8 into Nutrition Centre			

Brought Forward			R
<u>Cutting through:</u>			
Gypsum plasterboard ceilings and timber brandering for half brick walls, including making good on both sides of walls, necessary additional brandering etc (new cornices elsewhere)	m	156	
<u>One brick wall face bricks pointed with flush horizontal and vertical joints</u>			
Cutting toothings and bonding new face brickwork to existing	m	23	
<b><u>OPENINGS THROUGH EXISTING WALLS ETC</u></b>			
<u>Breaking out for and forming openings through brick walls for new roller shutters and frames, including brick lintels, making good cement plaster on one side and into reveals and face brickwork on other side and into reveals and with 20 MPa concrete thresholds with steel trowelled finish (new doors and frames and making good paintwork elsewhere)</u>			
Opening for Wispeco roller shutter door with steel frame 2 185 x 2 400m high overall through one brick wall	No	5	
<b><u>MAKING GOOD CEMENT SCREED</u></b>			
New screed on floors	m2	149	
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u></b>			
<b><u>Foundation brickwork and concrete walls have been measured to top of unfinished floor level</u></b>			
<b><u>BILL NO 2: CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
<b><u>CONCRETE</u></b>			
Carried Forward			R
Section No. 6 Bill No. 1 Conversion of Building 8 into Nutrition Centre			

	Brought Forward			R
	<b><u>Concrete test cubes</u></b>			
25	Prepare set of three 150 x 150 x 150mm concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for.	No	2.00	
	<b><u>REINFORCED CONCRETE</u></b>			
	<b><u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 20MPa at 28 days</u></b>			
26	In aprons slabs	m3	6.00	
27	In ramps	m3	3.00	
	<b><u>Sundries</u></b>			
28	Finish raking top surface of concrete slabs, etc. to a smooth and even wood floated surface including additional dry sand/cement mixture added as necessary whilst the concrete is still wet	m2	53.00	
	<b><u>FORMWORK</u></b>			
	<b><u>Rough Formwork</u></b>			
29	Edges, risers, ends and reveals not exceeding 300mm high	m	59.00	
	<b><u>CONCRETE WASH TROUGH</u></b>			
30	Concrete Wash trough single 1LEGP	No	1	
	<b><u>BILL NO 3: MASONRY</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b>Carried Forward</b>			R
	Section No. 6 Bill No. 1 Conversion of Building 8 into Nutrition Centre			

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Brought Forward			R
<b><u>BRICKWORK IN BURNT CLAY BRICKS IN (5:1) CEMENT MORTAR</u></b>			
31	Half brick wall	m2	14
32	One brick wall	m2	61.00
<b><u>BRICK REINFORCEMENT</u></b>			
33	Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	42
34	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	180.00
<b><u>TEMPORARY TURNING PIECES, ETC.</u></b>			
35	To flat brick lintels not exceeding 300mm wide	m	34.00
<b><u>SUNDRIES</u></b>			
36	38 x 1,6mm Galvanised hoop iron roof tie with one end built six courses deep into top of brickwork and other end wrapped around and nailed to trusses	No	104.00
<b><u>FACED BRICKWORK</u></b>			
<b><u>External facings in approved face bricks (FBS) with a PC Amount of R4,500.00 per thousand bricks delivered to site (excluding VAT) pointed with square recessed horizontal and vertical joints</u></b>			
37	Extra over ordinary brickwork for facing and pointing in stretcher bond	m2	75.00
Carried Forward			R
Section No. 6 Bill No. 1 Conversion of Building 8 into Nutrition Centre			

	Brought Forward			R
	<b><u>Sundries</u></b>			
38	Construct a sample panel 2m long x 1,5m high of one brick wall in cement mortar faced and pointed on both sides in stretcher bond and with brick-on-edge coping to top including pointing to top and both sides and with and including necessary excavations for and including 15MPa/38mm mass concrete strip footing in a position as directed by the Representative/Agent and including demolishing and removal after completion of all brickwork (Provisional)	No	2.00	
	<b><u>BILL NO 4: WATERPROOFING</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>DAMP-PROOFING TO WALLS</u></b>			
39	375 Micron embossed black polyethylene damp-proof course to walls, cills, etc. (measured net)	m2	8.00	
	<b><u>BILL NO 5: ROOF COVERINGS</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>Supplementary preambles in connection with fixing of sheeting and accessories and laps are to be inserted when the Model Preambles for Trades (or other preambles not covering the fixing of sheeting and accessories and laps) are used</u></b>			
	<b><u>When the pitch of troughed roof covering is less than 5 degrees or if dust proofing is required then the description of roof coverings "with side laps sealed" is to be used</u></b>			
	<b><u>Where roof coverings are fixed on top of rigid board insulation to purlins etc descriptions of roof coverings are to include therefore</u></b>			
	<b>Carried Forward</b>			R
	Section No. 6 Bill No. 1 Conversion of Building 8 into Nutrition Centre			

Brought Forward			R
<b><u>Global Roofing Solutions 406mm cover Brownbuilt™ profile roll-formed in continuous lengths from 0.58mm thick Galvanised steel, Z200 spelter ISQ550 Chromadek® Traffic Green finish top coat and Pebble Grey backing coat roof sheeting, fixed to timber intermediate purlins at MAX 1200mm centres and eaves and ridge purlins at MAX 1200mm centres using Duplex clips fixed with 10No.11 x 45mm long self drilling wafer head PH2 screws, type 17 drill point fasteners, all in accordance with the manufacturer's specifications by a GRS approved contractor.</u></b>			
40	Roof sheeting with pitch not exceeding 15° fixed to timber purlins (elsewhere)	m2	316.00
<b><u>'Klip-Lok 406' Flashings:</u></b>			
41	Ridge covering 450mm girth and fixed to timber purlins (elsewhere)	m	17.00
<b><u>ROOF AND WALL INSULATION</u></b>			
<b><u>Sisalation 410 Insulation</u></b>			
42	100mm non-combustible lightweight fiberglass insulation blanket fitted between tie beams and laid loose on top of bracing undelay dressed over bottom purlin into gutter	m2	316
<b><u>ROOF VENTILATORS</u></b>			
<b><u>Galvanized steel louvred ventilators:</u></b>			
43	Triangular shaped steel fixed louvred ventilator size 2100mm wide at base x 450mm high fixed into timber roof trusses.	No	2.00
<b><u>BILL NO 6: CARPENTRY AND JOINERY</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
Carried Forward			R
Section No. 6 Bill No. 1 Conversion of Building 8 into Nutrition Centre			

Brought Forward			R
<b><u>ROOFS, ETC.</u></b>			
<b><u>Plate nailed timber roof truss construction</u></b>			
44	Roof truss construction for 9 degrees double pitched roof, including trusses, jack rafters, permanent bracing and 50 x 75mm purlins for 0,5mm "Brownbuilt Klip-Lok Light Industrial" galvanised troughed sheeting (measured elsewhere) including design and Engineers Certificate of Compliance. Building size: 16.58 x 11.89m with 0.5m overhangs at eaves	No	1.00
<b><u>WOOD PRESERVATIVE</u></b>			
45	Two coats wood preservative applied hot on wrought exposed roof timbers	m2	28.00
<b><u>FASCIAS AND BARGEBOARDS</u></b>			
<b><u>Tempered fibre-cement</u></b>			
46	15 x 225mm Fascia board countersunk screwed to roof timbers (elsewhere) with two brass screws at maximum 1200mm centres and jointed with and including standard aluminium half round cover strips at all joints	m	57.00
<b><u>THE FOLLOWING IN SHELVING IN STORE ROOMS</u></b>			
<b><u>DOORS</u></b>			
<b><u>NOTE</u></b>			
<b><u>: All framed and ledged batten doors and combination doors, where battens are utilized, shall only be of construction acceptable to the Department, i.e. mortice and tenon where the tenon is exposed on the outside edges of styles and where the tenon is wedged to form a dovetailed shape</u></b>			
<u>Solid framed &amp; Braced Door, to be prepared and to finished with suitable varnish for external use, to Architects approval</u>			
47	40mm Purpose made door 813 x 2032mm high (Type: SA 03)	No	4
<b><u>JOINERY FITTINGS</u></b>			
Carried Forward			R
Section No. 6 Bill No. 1 Conversion of Building 8 into Nutrition Centre			

	<b>Brought Forward</b>			R
	<b><u>THE FOLLOWING IN PINNING BOARDS</u></b>			
	<b><u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</u></b>			
	<b><u>Pinning boards</u></b>			
48	2 400mm x 1 200mm high Felt pinning board. Colour: Stone. Deluxe anodised aluminium frame. Rounded plastic corners. Can be mounted horizontally or vertically. Including mounting brackets, screws and mounting Instructions	No	2.00	
	<b><u>Nu-tec Board</u></b>			
49	20mm Thick Board as internal window cill	m	34	
	<b><u>BILL NO 7: CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>TIMBER</u></b>			
	<b><u>: All softwood to be South African Pine</u></b>			
	<b><u>CEILINGS</u></b>			
	<b><u>Mineral wool insulation or similar approved</u></b>			
50	Cellulose ceiling insulation laid loose over ceiling in roof void	m2	148.00	
	<b><u>6mm "Cladit" fibre-cement ceilings boards or similar approved (Architect to advise)</u></b>			
51	Ceilings including H-type pressed steel jointing strips and 38 x 38mm sawn softwood banding at 400mm centres in one direction and around edges where required for fixing cornices, securely spiked to roof timbers	m2	148.00	
52	Extra over fibre-cement ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	4.00	
	<b>Carried Forward</b>			R
	Section No. 6 Bill No. 1 Conversion of Building 8 into Nutrition Centre			



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**Carried Forward**

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Brought Forward				R
<b><u>EXPANSION BOLTS : Expansion bolts shall be fixed in accordance with the manufacturer's instructions and prices are to include for drilling mortice for sockets in brickwork or concrete for same</u></b>				
64	Double gate with leaf formed of 50 x 25 x 1.6mm rectangular hollow section framing all round mitred and welded at angles with two 25 x 25 x 1.6mm mild steel square section 10mm diameter horizontal intermediate rails with ends welded to framing and with eight 19mm diameter rod vertical bars framed through intermediate rails with ends welded to framing	No	1.00	
<b><u>STEEL BALUSTRADING</u></b>				
<b><u>GALVANISED STEEL BALUSTRADES</u></b>				
<b><u>Welded balustrading to walkways</u></b>				
65	100 x 100 x 5mm Square hollow section posts	m	10.00	
<b><u>DOOR FRAMES, DOORS, WINDOWS, ETC.</u></b>				
<b><u>PRESSED STEEL DOOR FRAMES</u></b>				
<b><u>1,2mm Double rebated frames suitable for one brick walls</u></b>				
66	Frame for door size 877 x 2064mm high (Door type SA 03)	No	4.00	
<b><u>STEEL WINDOWS, DOORS, ETC</u></b>				
<b><u>GALVANISED STEEL WINDOWS, DOORS, ETC</u></b>				
<b><u>Standard school windows</u></b>				
67	Window type TS 42, 533 x 654mm high	No	2	
68	Window type TS 02, 2 000 x 1 264mm high	No	8	
<b><u>STEEL ROLLER SHUTTERS ETC</u></b>				
Carried Forward				R
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	Brought Forward			R
	<u>Wispeco" roller shutters or similar approved,</u>			
69	Wispeco Roll-A-Door steel roll-up garage door to suit opening size 2185 x 2400mm high with Traffic Green Colorcoat finish, manually operated, including centre lift lock and rubber weather strips, handles, Roll-A-Guides, hinges, fixing bolts, tracks etc, fixed to brickwork or concrete with a minimum of 100mm sideroom and 350mm headroom.	No	5	
	<b><u>STEEL WINDOW SUNDRIES</u></b>			
70	25 x 25 x 3mm Mild steel square tube beading mitred and welded to window or door framing on inside at junction with facings	m2	21	
71	Extra for flat closed end	No	10.00	
	<b><u>CAGING FOR GAS CYLINDERS</u></b>			
72	Allow a sum of R 6 500.00 for the erection of the gas cylinder caging, etc			SUM
	<b><u>BILL NO 10: PLASTERING</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>INTERNAL PLASTER</u></b>			
	<b><u>ONE COAT (4:1) CEMENT PLASTER FINISHED TO A SMOOTH AND EVEN STEEL TROWELLED SURFACE</u></b>			
	<b><u>On brickwork</u></b>			
73	On walls	m2	288.00	
74	On narrow widths	m2	21.00	
	<b><u>BILL NO 11: TILING</u></b>			
	Carried Forward			R
	Section No. 6 Bill No. 1 Conversion of Building 8 into Nutrition Centre			

	<b>Brought Forward</b>			R	
	<b>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</b>				
	<b><u>FLOOR TILES</u></b>				
	<b><u>600 x 600 mm Charcoal Grey full bodied non slip floor porcelain tiles with adhesive to power floated concrete and flush pointed with grout. Tiles are to be laid in accordance with architects design layout. adhesive by specialist supplier and to architect's approval. Tile grout to be approved by architect prior to fixing</u></b>				
75	On floors	m2	148.00		
76	Skirting 100mm high	m	97		
	<b><u>BILL NO 12: PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>				
	<b>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</b>				
	<b><u>RAINWATER DISPOSAL</u></b>				
	<b><u>0.58mm Galvanized sheet iron with Chromadek finish to match roof sheeting:</u></b>				
77	100 x 75mm Eaves gutters with beaded front edge.	m	57.00		
78	Extra over eaves gutter for angle.	No	5.00		
79	Extra over eaves gutter for outlet for 100 x 75mm pipe.	No	5.00		
80	100 x 75mm Rainwater pipe.	m	14.00		
81	Extra over rainwater pipe for shoe.	No	5.00		
82	Extra over rainwater pipe for eaves or plinth offset 600mm projection.	No	5.00		
	<b>Carried Forward</b>			R	
	Section No. 6 Bill No. 1 Conversion of Building 8 into Nutrition Centre				

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Brought Forward			R
<b><u>SANITARY FITTINGS</u></b>			
83	Vaal "Hibiscus" basin with three semi-punched tap holes integrated overflow, and chain stay hole through the centre semi-punched tap hole.	No	2.00
84	Flatback Urinal with top inlet wall hung urinal, supplied with 38mm CP domical grating, top inlet spreader and 2 hanger brackets.	No	1
85	Vaal Sanitaryware vitreous china "Daisy" semi-close coupled 90° outlet open rim washdown pan (code 751400) and matching 9 litre cistern (code 7116SC) complete with lid, fitments and flush pipe elbow. OR SIMILAR APPROVED	No	2.00
86	DOUBLE BOWL SINK with Mild Steel Legs (No Shelf)	No	1
<b><u>Traps, etc. including joints to steel pipes and/or fittings unless otherwise described</u></b>			
87	40mm Butyl rubber deep seal P or S trap	No	4.00
<b><u>Valves, etc. including joints to steel pipes and/or fittings unless otherwise described</u></b>			
88	15mm Copper service pipe 350mm girth	m	21
89	15mm Cobra Noka Mixer	No	2
90	15mm bib tap	No	1
<b><u>SANITARY PLUMBING</u></b>			
<b><u>uPVC pipes</u></b>			
91	110mm uPVC Pipe laid in/under floors or fixed to walls, roof timbers, etc.	m	12.00
<b><u>Extra over uPVC pipes for fittings</u></b>			
92	110 x 50mm Reducer	No	5.00
Carried Forward			R
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Brought Forward				R
	<b><u>TESTING</u></b>			
106	Provide all necessary apparatus, water, etc. for and test the whole of the Sanitary Plumbing and Water Supply installation to the satisfaction of the Representative/Agent and the Local Authority, rectify all defective work free of charge and leave in perfect order	Item		
	<b><u>BILL NO 13: GLAZING</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>Glass in steel fixed with putty</u></b>			
107	5mm Clear Float glass fixed with glazing putty exceeding 2m <sup>2</sup> and not exceeding 4m <sup>2</sup> square metre in area	m2	21.00	
	<b><u>BILL NO 14: PAINTWORK</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>PAINT ON PLASTER, ETC.</u></b>			
	<b><u>Prepare and apply one merit universal undercoat and two coats "Polvin" super acrylic PVA paint</u></b>			
108	On walls	m2	288.00	
	<b><u>PAINT ON FIBRE CEMENT</u></b>			
	<b><u>Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use</u></b>			
109	On external fibre-cement fascias and bargeboards including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	14.00	
	<b><u>PAINT ON GYPSUM SURFACES</u></b>			
Carried Forward				R
Section No. 6 Bill No. 1 Conversion of Building 8 into Nutrition Centre				



Brought Forward			R
<b><u>Prepare, stop and apply two full coats semi-gloss PVA co-polymer paint to comply with SABS Specification No. 643</u></b>			
110	On internal plasterboard ceilings including priming steel joints and nail heads with one coat zinc phosphate alkyd resin primer	m2	148.00
<b><u>PAINT ON METAL</u></b>			
<b><u>Prepare, touch up factory primer and apply one coat universal undercoat and two full coats high gloss enamel paint</u></b>			
111	On sashes and frames with burglar bars (both sides measured)	m2	21.00
<b><u>Prepare and apply one coat universal undercoat, two coats gloss enamel paint.</u></b>			
112	On pressed steel door frames	m2	13.00
<b><u>PAINT ON WOOD</u></b>			
<b><u>Prepare and apply one coat hardboard primer, one coat universal undercoat and two full coats high gloss enamel paint</u></b>			
113	On doors	m2	14.00
<b>Carried to Final Summary</b>			R
Section No. 6 Bill No. 1 Conversion of Building 8 into Nutrition Centre			

Item No		Quantity	Rate	Amount
	<b><u>ADMIN BUILDING</u></b>			
	<b><u>BILL NO 1: EARTHWORKS (PROVISIONAL)</u></b>			
	<u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u>			
	<u>Foundation brickwork and concrete walls have been measured to top of unfinished floor level</u>			
	<b><u>EARTHWORKS</u></b>			
	<u>NOTE : All excavations are measured as being in "earth" and/or filling compacted to 95% modified AASHTO density. Descriptions of excavations shall be deemed to include for setting aside surplus excavated material in spoil heaps for use as filling, or for depositing within 150m of the perimeter of the excavations and spreading and roughly levelling as directed, as well as for increase in bulk and multiple handling of excavated material caused by the Contractor's method of operation. 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 and for bulking</u>			
	<u>Working space for formwork to sides of all concrete, except columns, shall be measured only where the concrete face is less than 750mm from the face of the measured excavations. Working space for formwork to sides of columns shall be measured for the width of the column face only where both the top of the column base is more than 1,5m below the commencing level of the excavations and the column face is less than 500mm from the face of the measured excavations</u>			
	<b>Carried Forward</b>		R	
	Section No. 7 Bill No. 1 Large Administration Block			

Brought Forward			R
<u>No claim shall be considered for any working space for formwork to concrete other than as above described or for working space beyond the sides of trench excavations for the building of brick or block walls. Descriptions of excavations for working space shall be deemed to include for any additional risk of collapse so incurred and for the returning and compacting of the excavated material as described</u>			
<u>Excavations</u>			
<u>Excavate in earth not exceeding 2m deep below natural, elevated or reduced ground level for</u>			
1	Reducing levels	m3	86.00
2	Trenches	m3	128.00
<u>Carting away of excavated material</u>			
3	Extra over all excavations for carting away surplus material from excavations and/or from stockpiles on site to a dumping site to be located by the Contractor	m3	61.00
<u>Extra over excavations in earth for excavation in</u>			
4	Extra over excavations in earth for trenches and holes for excavations in soft rock	m3	17.00
5	Extra over excavations in earth for trenches and holes for excavations in hard rock	m3	9.00
<u>Risk of collapse of excavations</u>			
6	Risk of collapse of sides of excavations for trenches and holes from natural, elevated or reduced ground level to not exceeding 1,5m deep	m2	331.00
<u>Keeping excavations free of water</u>			
7	Allow for keeping excavations free of all water other than subterranean water	Item	
Carried Forward			R
Section No. 7 Bill No. 1 Large Administration Block			

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	<b>Brought Forward</b>			<b>R</b>	
	<b><u>Filling, etc.</u></b>				
8	Backfilling from the excavations to trenches and holes compacted to 93% modified AASHTO density	m3	68.00		
9	Imported earth filling supplied by the Contractor and brought onto site, under solid floors, steps, paving's, etc. compacted to 93% modified AASHTO density	m3	86.00		
	<b><u>Tests</u></b>				
10	Tests to determine the degree of compaction, etc. of ground or filling	No	4.00		
	<b><u>Protection against termites</u></b>				
11	Poisoning surface of ground in bottoms of trenches, bases, etc.	m2	453.00		
12	Poisoning surface of ground or filling under floors, steps, etc. including raking out 75mm deep V-shaped channels against the walls, etc. treating with poison solution, backfilling and ramming	m2	417.00		
	<b><u>BILL NO 2: CONCRETE, FORMWORK AND REINFORCEMENT</u></b>				
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u></b>				
	<b><u>Concrete test cubes</u></b>				
13	Prepare set of three 150 x 150 x 150mm concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for	No	4.00		
	<b><u>REINFORCED CONCRETE</u></b>				
	<b><u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 20MPa at 28 days</u></b>				
14	In aprons slabs	m3	8.00		
	<b>Carried Forward</b>			<b>R</b>	
	Section No. 7				
	Bill No. 1				
	Large Administration Block				

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	<b>Brought Forward</b>			R
	<b><u>Mild steel reinforcement to structural concrete work</u></b>			
24	All diameter bars	t	0.35	
	<b><u>Fabric reinforcement</u></b>			
25	Type 395 fabric reinforcement in concrete surface beds, aprons, etc.	m2	417.00	
	<b><u>BILL NO 3: MASONRY</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>IN FOUNDATIONS (PROVISIONAL)</u></b>			
	<b><u>BRICKWORK IN BURNT CLAY BRICKS IN (5:1) CEMENT MORTAR</u></b>			
26	One brick wall	m2	134.00	
	<b><u>IN SUPERSTRUCTURE (PROVISIONAL)</u></b>			
	<b><u>BRICKWORK IN BURNT CLAY BRICKS IN (5:1) CEMENT MORTAR</u></b>			
27	Half brick wall	m2	238.00	
28	Half brick wall in beamfilling	m2	11.00	
29	One brick wall	m2	384.00	
30	Piers	m3	3	
	<b><u>BRICK REINFORCEMENT</u></b>			
31	Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	733.00	
32	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	1,129.00	
	<b>Carried Forward</b>			R
	Section No. 7			
	Bill No. 1			
	Large Administration Block			

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Brought Forward			R
<b><u>TEMPORARY TURNING PIECES, ETC.</u></b>			
33	To flat brick lintels not exceeding 300mm wide	m	62.00
<b><u>SUNDRIES</u></b>			
<b><u>Hoop iron iron roof ties</u></b>			
34	40 x 1,6mm Galvanized hoop iron iron roof tie with one end built six courses deep into top of brickwork and other end wrapped around and nailed to trusses	No	216.00
<b><u>Nutec fibre-cement sills in single lengths bedded in class I mortar including metal fixing lugs, etc</u></b>			
35	150 x 150mm wide sills set flat and slightly projecting bedded in cement mortar	m	37.00
<b><u>FACED BRICKWORK</u></b>			
<b><u>Facings in approved face bricks (FBS) with a PC Amount of R4,500.00 per thousand bricks delivered to site (excluding VAT) pointed with square recessed horizontal and vertical joints</u></b>			
<b><u>Extra over brickwork for face brickwork</u></b>			
36	Extra over ordinary brickwork for facing and pointing in stretcher bond in foundations	m2	134.00
37	Extra over ordinary brickwork for facing and pointing in stretcher bond	m2	384.00
38	Extra over ordinary brickwork in piers for facing and pointing in stretcher bond	m2	20.00
39	Extra over ordinary brickwork in beamfilling for facing and pointing in stretcher bond	m2	11.00
40	Face brick-on-edge flat lintel course in cement mortar 220mm wide on soffit and pointing on 110mm wide projecting soffit and one side	m	63.00
<b>Carried Forward</b>			R
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	Brought Forward			R
41	Cut face brick-on-edge external window cill, 180mm wide, set sloping and slightly projecting in cement mortar and pointed on top, front edge and projecting soffit including all necessary fair raking cutting to facings under and fair and fitted ends	m	37.00	
	<b><u>BILL NO 4: WATERPROOFING</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>DAMP-PROOFING TO WALLS</u></b>			
42	375 Micron embossed black polyethylene damp-proof course to walls, cills, etc. (measured net)	m2	54.00	
	<b><u>DAMP-PROOFING UNDER FLOORS, ETC.</u></b>			
	<b><u>Colour coded polyethylene sheeting complying with SABS 952, Type C in widest practicable widths with all joints lapped and sealed in accordance with the manufacturer's instructions</u></b>			
43	One layer of 250 micron "Gunplas Black" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape laid loose on top of sand bed (elsewhere) under solid floors with pressure sensitive tape jointing	m2	417.00	
	<b><u>BILL NO 5: ROOF COVERINGS</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>Supplementary preambles in connection with fixing of sheeting and accessories and laps are to be inserted when the Model Preambles for Trades (or other preambles not covering the fixing of sheeting and accessories and laps) are used</u></b>			
	Carried Forward			R
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Brought Forward			R
<p><u>When the pitch of troughed roof covering is less than 5 degrees or if dust proofing is required then the description of roof coverings "with side laps sealed" is to be used</u></p> <p><u>Where roof coverings are fixed on top of rigid board insulation to purlins etc descriptions of roof coverings are to include therefore</u></p> <p><u>Global Roofing Solutions 406mm cover Brownbuilt™ profile roll-formed in continuous lengths from 0.58mm thick Galvanised steel, Z200 spelter ISQ550 Chromadek® Traffic Green finish top coat and Pebble Grey backing coat roof sheeting, fixed to timber intermediate purlins at MAX 1200mm centres and eaves and ridge purlins at MAX 1200mm centres using Duplex clips fixed with 10No.11 x 45mm long self drilling wafer head PH2 screws, type 17 drill point fasteners, all in accordance with the manufacturer's specifications by a GRS approved contractor.</u></p>			
44	Roof sheeting with pitch not exceeding 9° fixed to timber purlins (elsewhere)	m2	634.00
<b><u>'Klip-Lok 406' Flashings:</u></b>			
45	Ridge covering 450mm girth and fixed to timber purlins (elsewhere)	m	25.00
46	Hip covering 450mm girth and fixed to timber purlins (elsewhere)	m	33
<b><u>ROOF AND WALL INSULATION</u></b>			
<b><u>Sisalation 410 Insulation</u></b>			
47	100mm non-combustible lightweight fiberglass insulation blanket fitted between tie beams and laid loose on top of bracker undelay dressed over bottom purlin into gutter	m2	634
<b><u>ROOF VENTILATORS</u></b>			
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Brought Forward				R
<b><u>Galvanized steel louvred ventilators:</u></b>				
48	Triangular shaped steel fixed louvred ventilator size 2100mm wide at base x 450mm high fixed into timber roof trusses.	No	2.00	
<b><u>BILL NO 6: CARPENTRY AND JOINERY</u></b>				
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>				
<b><u>ROOFS, ETC.</u></b>				
<b><u>Plate nailed timber roof truss construction</u></b>				
49	Roof truss construction for 9 degrees double pitched roof, including trusses, jack rafters, permanent bracing and 50 x 75mm purlins for 0,5mm "Brownbuilt Klip-Lok Light Industrial" galvanised troughed sheeting (measured elsewhere) including design and Engineers Certificate of Compliance. Building size: 42.46 x 10.10m with 0.57m overhangs at eaves with porches on both sides size 3.235 x 1.438m	No	1.00	
<b><u>FASCIAS AND BARGEBOARDS</u></b>				
<b><u>Tempered fibre-cement</u></b>				
50	15 x 225mm Fascia board countersunk screwed to roof timbers (elsewhere) with two brass screws at maximum 1200mm centres and jointed with and including standard aluminium half round cover strips at all joints	m	114.00	
<b><u>JOINERY FITTINGS</u></b>				
<b><u>THE FOLLOWING IN PINNING BOARDS</u></b>				
<b><u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</u></b>				
Carried Forward				R
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	<b>Brought Forward</b>		<b>R</b>	
	<b><u>Pinning boards</u></b>			
51	2400mm x 1200mm high Felt pinning board. Colour: Stone. Deluxe anodised aluminium frame. Rounded plastic corners. Can be mounted horizontally or vertically. Including mounting brackets, screws and mounting Instructions	No	7.00	
	<b><u>THE FOLLOWING IN SHELVING IN STORE ROOMS</u></b>			
	<b><u>Joinery - Counter tops</u></b>			
52	JON - Counter Top Instance 600mm depth. 600mm wide x 900mm High	No	5	
53	JON - Counter Top - L Shaped 600mm depth. 625mm wide x 900mm High	No	1	
	<b><u>Joinery - Floor Units</u></b>			
54	JON - FD - 450. 450 wide x 570 deep x 868 High	No	4	
55	JON - FU - 600. 600 wide x 570 deep x 868 High	No	2	
56	JON - FU - 900. 900 wide x 570 deep x 868 High	No	6	
	<b><u>Joinery - Shelving</u></b>			
57	CW - 350 Shelving Solid 5 Tier. 300 long x 300 wide x 2100mm High	No	3	
58	CW - 450 Shelving Solid 5 Tier. 450 long x 450 wide x 2100mm High	No	4	
59	JON - WU - 960 Show Case. 960 long x 900 wide x 1500 High	No	2	
	<b><u>Joinery - Wall Units</u></b>			
60	JON - FD - 450. Size 450 wide x 570 deep x 868 High	No	4	
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	Brought Forward			R
61	JON - FU - 600. Size 600 wide x 570 deep x 868 High	No	2	
62	JON - FU - 900. Size 900 wide x 570 deep x 868 High	No	6	
	<b><u>Joinery - Cupboard</u></b>			
63	JON - Casework Ward Bic. Size 900 wide x 600 wide x 2420mm High	No	4	
	<b><u>Joinery - Benches</u></b>			
64	JON - Bench seating. Size 450 long x 450 deep x 520 High	No	3	
	<b><u>TIMBER DOORS, WINDOWS, ETC</u></b>			
	<u>Fire doors</u>			
	<u>User note</u>			
	<i>Where SANS 1253 in the following description is not applicable, refer to other suitable construction standards or provide full specifications</i>			
	Fire doors are to be in accordance with SANS 1253			
	<b><u>DOORS ETC</u></b>			
	<u>Solid Core flush door with concealed hardwood edges and 4mm thick masonite covering on both sides hung to steel frame</u>			
65	40mm Single door 813 x 2032mm high with concealed hardwood edges and 4mm thick masonite covering on both sides hung to steel frame (Type: SA 02)	No	7	
	<u>Solid meranti framed, ledged and braced batten doors with masonite veneer to internal face suitable for painting (painting elsewhere measured)</u>			
66	40mm Purpose made door 813 x 2032mm high (Type: SA 03)	No	12	
	<b>Carried Forward</b>			R
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	<b>Brought Forward</b>			R	
	<b><u>Nu-tec Board</u></b>				
67	20mm thick nu-tec boards as internal window cill	m	40		
	<b><u>BILL NO 7: CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b>				
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>				
	<b><u>CEILINGS</u></b>				
	<b><u>NAILED UP CEILINGS</u></b>				
	<b><u>Mineral wool insulation</u></b>				
68	Cellulose ceiling insulation laid loose over ceiling in roof void	m2	507.00		
	<b><u>6mm "Nu-tec" pressed fibre-cement boards with H-type pressed steel jointing strips</u></b>				
69	Ceilings including H-type pressed steel jointing strips and 38 x 38mm sawn softwood bandering at 400mm centres in one direction and around edges where required for fixing cornices, securely spiked to roof timbers	m2	507.00		
70	Extra over fibre-cement ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	6.00		
	<b><u>"Rhino" Gypsum plasterboard cornices</u></b>				
71	75mm Coved cornices	m	592.00		
	<b><u>BILL NO 8: IRONMONGERY</u></b>				
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>				
	<b>Carried Forward</b>			R	
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<u>Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish</u>			
<u>THE FOLLOWING IRONMONGERY FIXED TO DOORS, ETC.</u>			
<u>HINGES</u>			
<u>"Union" or similar approved</u>			
72	100mm Mild steel butterfly hinges	No	38.00
<u>LOCKS</u>			
<u>"Solid"</u>			
73	"Solid Blesbok" / Tarpon. 460/313 Four Lever Lockset	No	19.00
74	"Solid Blesbok" /195/01 Mortice WC Indicaor with Lock.	No	2
75	Narrow style SANS approved double cylinder lockset	No	2
<u>HANDLES</u>			
<u>Manufactured by Dormakaba or similar approved:</u>			
<u>Lever handles:</u>			
76	Door handles to be double sided - satin chrome finish handles as per architect	No	2
77	CB30 Satin chrome lever on plate with cylinder cutout	No	19
<u>BATHROOM FITTINGS</u>			
<u>"Solid"</u>			
78	Lockable 3 roll toilet roll holder plugged	No	2.00
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	Brought Forward			R
79	Wall mounted soap dispenser plugged to plastered or tiled walls	No	3.00	
80	19mm Stainless steel chromium plated towel ring, 300mm diameter, with fixing bracket plugged to plastered or tiled wall	No	1.00	
81	Paper towel dispenser plugged	No	3	
82	Brass hat and coat hook with rubber buffer	No	3.00	
	<b><u>CATCHES, CABIN HOOKS, ETC</u></b>			
	<b><u>Manufactured by Dormakaba or similar approved</u></b>			
83	Aluminium Hat & Coat Hook	No	2	
	<b><u>SUNDRIES</u></b>			
	<b><u>"Union"</u></b>			
	<b><u>Door Stop 140/83</u></b>			
84	Stainless steel half moon door stop or similar approved, plugged and screwed to floor	No	21	
	<b><u>Brass dividing strips</u></b>			
85	3 x 25mm Brass dividing strip between different floor finishes	m	46.00	
	<b><u>NUMERAL AND NAME PLATES</u></b>			
	<b><u>Clear Perspex numeral plate reverse engraved and enamelled in numerals and/or letters, twice countersunk holed for and tapscrewed to steel door frames or gate framing with chromium plated dome-headed self-tapping screws</u></b>			
	<b><u>2mm Thick anodized aluminium plates countersunk screwed along edges</u></b>			
86	150 x 150 mm male/female/paraplegic indicator plate	No	2.00	
	<b>Carried Forward</b>			R
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Brought Forward				R
	<u>Indicator plates countersunk holed for and screwed to door or brickwork with chromium plated dome-headed screws</u>			
87	190 x 190 x 3mm Thick white perspex international FB2 sign plate with red fire extinguisher symbol plugged to brickwork	No	6.00	
	<b><u>BILL NO 9: METALWORK</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>EXPANSION BOLTS : Expansion bolts shall be fixed in accordance with the manufacturer's instructions and prices are to include for drilling mortice for sockets in brickwork or concrete for same</u></b>			
	<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
	<b><u>Standard 1,2mm thick pressed metal steel frame with double rebate complete with lugs and base ties as supplied by manufacturer suitable for 115mm wall.</u></b>			
88	Frame for door size 877 x 2064mm high (Door type SA 02)	No	7.00	
89	Frame for door size 877 x 2064mm high (Door type SA 03)	No	12	
	<b><u>STEEL WINDOWS</u></b>			
	<b><u>NOTE : Windows shall be provided with chromium plated brass fittings. All horizontal pivot windows to be fitted with cup keeps on pivot for maximum opening of 25°</u></b>			
	<b><u>The given sizes are overall, approximate and in the order of width and height. The detailed drawings and building must be carefully checked for exact sizes before placing orders. Any errors in this respect will be at the Contractor's expense and no claims for any extras in this regard will be entertained</u></b>			
	Carried Forward			R
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Brought Forward			R
<p><b><u>Where so described windows shall be provided with burglar bars to opening and fixed sections, consisting of 12 x 12mm mild steel square sections to standard NBP2 pattern welded at intersections and to window frame. Bars in front of fixed sections to be bent 75mm away from the glass surface</u></b></p> <p><b><u>Standard mild steel Residential Top-hung open out window frames complete with burglar proofing out of 10mm diameter solid round bars</u></b></p>			
90	Window type TS20 size 1 511 x 1 264mm High (Product code SWE418/TD75)	No	20.00
91	Window type TS21 size 1022 x 949mm High (Product code SWE37S/NCTX7S)	No	2.00
92	Window type TS22 size 533 x 949mm High (Product code SWE31S/NCT1S)	No	5.00
93	Window type TS23, size 1022 x 1264mm High (Product code SWE37S)	No	2.00
<b><u>ALUMINIUM WINDOWS AND DOORS</u></b>			
<p><b><u>Extruded Aluminium door as per AAMSA specifications. Glass Panel to have 6mm PVB Fadeband Laminated Safety Glass according to SANS Specifications.</u></b></p>			
94	Door size 1 475 x 2 050mm high (Door type AL01)	No	2.00
<p><b><u>Purpose made extruded aluminium proposed frame according to AAMSA. Natural Anodised Aluminium Finish.</u></b></p>			
95	Window type TA20, size 1525 x 1190mm high (Product code: Purpose made)	No	1.00
96	Window type TA21, size 1625 x 1190mm high (Product code: Purpose made)	No	1.00
Carried Forward			R
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Brought Forward			R
97	Window type TA22, size 2400 x 1190m high (Product code: Purpose made)	No	1.00
<b><u>STRONGROOM DOORS, WALL SAFES AND VENTILATORS</u></b> <b><u>"Bishoff" or similar approved</u></b>			
98	Mutual Safes DS50/2 SANS Category 2 (light duty) strong room door with 2 x 7 lever security keylock, overall size 760 x 1860mm high. finished in rustproof undercoat for final painting by contractors. (Door type VD 01) Size: 914 x 2 134mm High	No	1.00
<b><u>SECURITY GATES</u></b> <b><u>The following in twenty four framed and welded mild steel security gates and fixing in position complete</u></b>			
99	50 x 50 x 2.5mm rectangular tubing sections mitre 45 degrees at corners before welded secured against wall with 50 x 50 x 5mm mild steel brackets welded to frame and bolted to wall with 10mm(M10) rawlbolts. Type GS 01 size 1 600 x 2 125mm High	No	2.00
<b><u>STEEL WINDOW SUNDRIES</u></b>			
100	25 x 25 x 3mm Mild steel square tube beading mitred and welded to window or door framing on inside at junction with facings	m2	43
101	Extra for flat closed end	No	29.00
<b><u>BILL NO 10: PLASTERING</u></b> <b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b> <b><u>(3:1) CEMENT SCREEDS TO CONCRETE</u></b>			
Carried Forward			R
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	Brought Forward			R
	<b><u>25mm Thick</u></b>			
102	On floors to receive ceramic floor tiles (elsewhere measured)	m2	370.00	
	<b><u>BILL NO 11: TILING</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>WALL TILES</u></b>			
	<b><u>198 x 198 x 6mm WHITE GLAZED CERAMIC WALL TILES FIXED WITH AN APPROVED TILE ADHESIVE TO PLASTER (PLASTER ELSEWHERE) AND WITH JOINTING COMPOUND</u></b>			
103	On walls	m2	9	
	<b><u>FLOOR TILES</u></b>			
	<b><u>600 x 600 mm full bodied non slip floor porcelain tiles with adhesive to power floated concrete and flush pointed with grout. Tiles are to be laid in accordance with architects design layout. adhesive by specialist supplier and to architect's approval. Tile grout to be approved by architect prior to fixing</u></b>			
104	On floors	m2	370.00	
105	Skirting 100mm high	m	320	
	<b><u>BILL NO 12: PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>SOIL DRAINAGE</u></b>			
	<b><u>uPVC Pipes</u></b>			
106	100mm Pipes laid in and including trenches not exceeding 1m	m	45.00	
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		<b><u>Extra over uPVC pipes for fittings</u></b>			
107	100mm Bend	No	6.00		
		<b><u>uPVC gulleys</u></b>			
108	110mm Dished gulley exceeding 750mm and not exceeding 1000mm deep	No	2.00		
		<b><u>RAINWATER DISPOSAL</u></b>			
		<b><u>0.58mm Galvanized sheet iron with Chromadek finish to match roof sheeting:</u></b>			
109	100 x 100mm Eaves gutters with beaded front edge	m	114.00		
110	Extra over 100 x 100mm eaves gutter for outlet for 100mm pipe	No	11.00		
111	100mm Diameter rainwater pipes	m	29.00		
112	Extra over 100mm rainwater pipe for bend	No	11.00		
113	Extra over 100mm rainwater pipe for shoe	No	11.00		
114	Extra over rainwater pipe for eaves or plinth offset 600mm projection.	No	11		
		<b><u>SANITARY FITTINGS</u></b>			
115	Vaal Sanitaryware vitreous china 510 x 405mm rounded "Hibiscus" basin with three semi-punched tap holes integrated overflow, and chain stay hole through the centre semi-punched tap hole.	No	3.00		
116	Vaal Sanitaryware vitreous china "Daisy" semi-close coupled 90° outlet open rim washdown pan (code 751400) and matching 9 litre cistern (code 7116SC) complete with lid, fitments and flush pipe elbow.	No	2.00		
		<b>Carried Forward</b>		R	
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117	Drop-in type sink and drainer of grade 304 (18/8) stainless steel size 1 050 x 535mm wide with splashback and 460 x 355 x 150mm deep single end bowl including chromium plated waste, plug and chain and bedded in opening (elsewhere) in timber worktop in silicone	No	1.00	
118	EBoil Bronze 10L Classic Mk11 . (Above all sinks)	No	1	
	<b><u>Traps, etc. including joints to steel pipes and/or fittings unless otherwise described</u></b>			
119	40mm Butyl rubber deep seal P or S trap	No	3.00	
120	40-40mm Chromium plated bottle trap	No	3.00	
	<b><u>Valves, etc. including joints to steel pipes and/or fittings unless otherwise described</u></b>			
121	15mm Copper service pipe 350mm girth	m	40	
122	15mm Chromium plated full way ball cock shut-off control valve with screw type control	No	4.00	
123	15mm Chromium plated wall flange and extension piece	No	4.00	
124	15mm chromium plated sink mixer	No	4	
	<b><u>SANITARY PLUMBING</u></b>			
	<b><u>uPVC pipes</u></b>			
125	100mm uPVC Pipe laid in/under floors or fixed to walls, roof timbers, etc.	m	25.00	
	<b><u>Extra over uPVC pipes for fittings</u></b>			
126	100 x 50mm Reducer	No	2.00	
127	110mm Bend	No	2.00	
128	110mm Junction	No	2.00	
129	110mm Pan connector	No	2.00	
	<b>Carried Forward</b>			R
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	<b>Brought Forward</b>			<b>R</b>	
130	110mm VP stub stack fitting with ABC cleaning eye lid and multiple connections for 50mm waste	No	2.00		
131	110mm Access bend	No	2.00		
132	110mm Access bend with anti-syphon horn	No	2.00		
133	110mm Access junction	No	2.00		
134	110mm Access reducing junction	No	2.00		
135	Two way uPVC air admittance valve suitable for 50mm pipe	No	2.00		
	<b><u>WATER SUPPLY</u></b>				
	<b><u>Class 3 copper pipes and fittings with capillary soldered connections</u></b>				
136	15mm Pipe chased into walls	m	23.00		
137	22mm Pipe chased into walls	m	18.00		
	<b><u>Extra over class 3 copper pipes for soldered capillary fittings</u></b>				
138	15mm Fittings	No	3.00		
139	22mm Fittings	No	3.00		
	<b><u>WATER SUPPLIES TO FIRE APPLIANCES</u></b>				
	<b><u>Galvanized mild steel pipes</u></b>				
140	50mm Pipe laid in and including trenches not exceeding 1000mm deep	m	25.00		
141	40mm Pipe laid in/under floors or fixed to walls, roof timbers, etc.	m	15.00		
	<b><u>Extra over galvanized mild steel pipes for:</u></b>				
142	40mm Bends	No	6.00		
143	40mm Bush	No	6.00		
	<b>Carried Forward</b>			<b>R</b>	
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144	40mm Socket union	No	6.00	
145	50mm Bends	No	6.00	
146	50mm Bush	No	6.00	
	<b><u>Fire appliances etc.</u></b>			
147	9kg DCP dry powder portable fire extinguisher on and including wrought Meranti backboard size 520 x 100 x 22mm thick plugged and screwed to wall and finished with two coats of polyurethane varnish, including 120 x 20 x 2mm mild steel strip bent to form hook	No	6.00	
148	Fire Fyter Model 2000 or similar approved, fire hose reel with 30m long hose including jointing to steel supply pipe and fixing to wall	No	2.00	
	<b><u>HOT WATER CYLINDERS</u></b>			
	<b><u>"Kwikot" or equally approved Slimline 600i Dual electric horizontal type water geyser (Code: ESG-100-I), complete with pressure reducing valve, pressure- and temperature relief valves, safety valve drains, vacuum breakers, drip trays, etc. (piping measured elsewhere)</u></b>			
149	150 Litre Hot water cylinder	No	1.00	
	<b><u>TESTING</u></b>			
150	Provide all necessary apparatus, water, etc. for and test the whole of the Sanitary Plumbing and Water Supply installation to the satisfaction of the Representative/Agent and the Local Authority, rectify all defective work free of charge and leave in perfect order		Item	
	<b><u>BUILDER'S WORK, INCLUDING ALL MAKING GOOD MASONRY</u></b>			
151	Fair cutting and fitting of facings around pipe not exceeding 100mm diameter	No	6.00	
	<b><u>PAINTWORK</u></b>			
	<b>Carried Forward</b>			R
	Section No. 7 Bill No. 1 Large Administration Block			

	Brought Forward			R
	<u>Prepare, prime with a self-etching primer and apply one coat universal undercoat and one full coat high gloss enamel paint</u>			
	<u>On galvanized mild steel</u>			
152	Pipe not exceeding 300mm girth	m	28.00	
	<b><u>BILL NO 13: GLAZING</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>GLAZING TO STEEL WITH PUTTY</u></b>			
	<b><u>6mm TINTED float sheet glazing secured in frame with natural anodised aluminium glazing beads according to manufacturer's specification.</u></b>			
153	Panes exceeding 0,5m <sup>2</sup> and not exceeding 2m <sup>2</sup>	m2	4.00	
	<b><u>6mm Clear float sheet glazing secured in frame with natural anodised aluminium glazing beads according to manufacturer's specification. APPLY ONE WAY FILM TO GLASS</u></b>			
154	Panes exceeding 2m <sup>2</sup> and not exceeding 4m <sup>2</sup>	m2	3.00	
	<b><u>5mm Clear Float glass fixed with glazing putty. Putty to receive paint finish to match window frame</u></b>			
155	Panes exceeding 0,5m <sup>2</sup> and not exceeding 2m <sup>2</sup>	m2	40	
	<b><u>5mm Obscure glass fixed with glazing putty. Putty to receive paint finish to match window frame.</u></b>			
156	Panes exceeding 0,5m <sup>2</sup> and not exceeding 2m <sup>2</sup>	m2	3	
	Carried Forward			R
	Section No. 7 Bill No. 1 Large Administration Block			



Brought Forward		R
<p><b><u>5mm Clear Float glass fixed with glazing putty. Putty to receive paint finish to match window frame.</u></b></p>		
157	<p>Panes exceeding 0,5m<sup>2</sup> and not exceeding 2m<sup>2</sup></p> <p>m2</p>	3
<p><b><u>Mirrors</u></b></p>		
158	<p>Mirror 400 x 600 mm high fixed to wall</p> <p>No</p>	3.00
<p><b><u>BILL NO 14: PAINTWORK</u></b></p>		
<p><u>User note</u></p> <p><i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i></p> <p><i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i></p> <p><i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i></p> <p><i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i></p>		
Carried Forward		R
<p>Section No. 7 Bill No. 1 Large Administration Block</p>		

<b>Brought Forward</b>	R
<p><i>Attention is drawn to the measurement rules in the measuring system regarding paint colours which read as follows:</i></p> <p>"4.     <i>Paintwork shall be classified in the different colour groups "White", "Pastel", "Deep" and "Transparent" (in accordance with the Natural Colour System (NCS) adopted by the SA National Standards)"</i></p> <p style="padding-left: 40px;"><i>and</i></p> <p>"5.     <i>Paintwork in one colour group may be given as extra over paintwork in another colour group"</i></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>PREPARATORY WORK TO EXISTING WORK</u></b></p> <p><u>Previously painted plastered surfaces</u></p> <p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</p> <p><u>Previously painted metal surfaces</u></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p><u>Previously painted wood surfaces</u></p> <p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</p> <p><b><u>PAINT SPECIFICATIONS</u></b></p> <p>All painting shall be done in accordance with specifications unless otherwise described</p> <p><b><u>COLOURS</u></b></p>	
<b>Carried Forward</b>	R
<p>Section No. 7 Bill No. 1 Large Administration Block</p>	

Brought Forward			R
<u>User note</u>			
<b><u>PAINTWORK ETC TO NEW WORK</u></b>			
<b><u>ON FIBRE-CEMENT BOARD SURFACES</u></b>			
<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>			
<u>Two coats extremely durable UV-resistant, washable pure acrylic emulsion sheen paint</u>			
159	Ceilings and cornices, including priming metal cover strips and nail heads	m2	370
160	Fascias and barge boards including priming metal jointing strips	m2	26
<b><u>ON METAL SURFACES</u></b>			
<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel</u>			
161	Steel gates	m2	14
162	Door frames	m2	7
163	Windows with burglar bars	m2	91
164	Rainwater downpipes not exceeding 300mm girth	m	29
<b><u>ON WOOD SURFACES</u></b>			
<u>Three coats superior quality clear gloss varnish</u>			
165	Doors	m2	63
166	Roof timbers at eaves and verges (Provisional)	m2	28
<b>Carried to Final Summary</b>			R
Section No. 7			
Bill No. 1			
Large Administration Block			

Item No	Quantity	Rate	Amount
<b><u>BILL NO 1</u></b>			
<b><u>EARTHWORKS (PROVISIONAL)</u></b>			
<u>User note</u>			
<i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i>			
<i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i>			
<i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i>			
<i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i>			
<i>The following are typical examples of descriptions of "nature of ground"</i>			
<u>Nature of ground</u>			
The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "soft rock" or "hard rock"			
The nature of the ground is assumed to be gravel, therefore "earth", but possibly interspersed with "soft rock" or "hard rock"			
The nature of the ground is assumed to be silty clay with loose river boulders varying in size up to approximately 450mm diameter, all of which will be deemed as "earth", but possibly interspersed with "hard rock"			
<b>Carried Forward</b>		R	
Section No. 8			
Bill No. 1			
1 x 8 Toilets (8 Toilets)			

<b>Brought Forward</b>	R
<p>Trial holes indicate that the nature of the ground is silty clay to a depth of approximately 500mm with fine to medium loose sandy material below, therefore "earth"</p> <p>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 unweathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"</p> <p><u>User note</u></p> <p><i>The following are typical examples of descriptions of "subterranean water"</i></p> <p><u>Subterranean water</u></p> <p>No subterranean water is expected</p> <p>The water table is expected to vary below natural ground level. The removal of subterranean water is given separately</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><u>Filling and layer work materials</u></p> <p>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</p>	
<b>Carried Forward</b>	R
<p>Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)</p>	

Brought Forward				R
<u>User note</u>  <i>When no information regarding density and other tests is available the following preamble in respect of testing may be inserted</i>  <u>Testing</u>  <i>Prices for filling are to include for all necessary density and other tests</i>				
<b><u>SITE CLEARANCE</u></b>				
<u>User note</u>  <i>Where the value is of significance, the removal of hedges etc shall be given separately in meters or in number</i>  <u>Site clearance</u>				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	95	
<b><u>EXCAVATION, FILLING, ETC</u></b>				
<u>User note</u>  <i>This section is given as an alternative option and in the event of it being utilised, the excavation, filling, etc other than bulk is to be given in the later section under the appropriate heading</i>  <i>If this alternative is not utilised then all excavation, filling, etc (bulk and otherwise) is to be given in the later section under the appropriate heading</i>				
<b><u>EXCAVATIONS ETC</u></b>				
<u>Digging up topsoil</u>				
2	Digging up topsoil to an average depth of 150mm and preserving for use as filling	m3	14	
Carried Forward				R
Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)				

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Brought Forward			R
<u>Excavation in earth not exceeding 2m deep</u>			
Trenches	m3	45	
Thickening under surface beds etc	m3	3	
<u>Extra over excavations in earth for excavation in</u>			
Soft rock	m3	5	
Hard rock	m3	2	
<u>Extra over all excavations for carting away</u>			
Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	21	
<u>Risk of collapse of excavations</u>			
Sides of bulk excavations not exceeding 1,5m deep	m2	110	
<u>Keeping excavations free of water</u>			
Keeping excavations free of all water other than subterranean water		Item	
<b><u>FILLING ETC</u></b>			
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 95% Mod AASHTO density</u>			
Under floors, steps, pavings, etc	m3	14	
Backfilling to trenches, holes, etc	m3	24	
<u>Compaction of ground surfaces</u>			
Compaction of natural or excavated ground surface under floors etc by wetting and compacting	m2	55	
<b><u>WEED KILLERS, INSECTICIDES, ETC</u></b>			

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Anti - termite treatment to fillings and tops of foundations: Approved insecticide treatment: applied in accordance with the manufacturer's printed instructions : include for 10 years warranty period.

13	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	55
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14	To bottoms and sides of trenches etc	m2	153
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Prescribed tests to determine degree of compaction or other properties of ground or filling

15	"Modified AASHTO Density" test	No	3
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## CONCRETE, FORMWORK AND REINFORCEMENT

Section No. 8  
Bill No. 1  
1 x 8 Toilets (8 Toilets)



<b>Brought Forward</b>	R
<p><u>User note</u></p> <p><i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i></p> <p><i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i></p> <p><i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i></p> <p><i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i></p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately)</p> <p><u>Breeze concrete</u></p> <p>Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (1:12); the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated</p>	
<b>Carried Forward</b>	R
<p>Section No. 8</p> <p>Bill No. 1</p> <p>1 x 8 Toilets (8 Toilets)</p>	

<b>Brought Forward</b>	R
<p><u>Lightweight concrete</u></p> <p>Lightweight concrete shall have a density of 600kg/m<sup>3</sup> for the top 50mm and 400kg/m<sup>3</sup> for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 50mm</p> <p><u>Formwork</u></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself</p> <p>Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described</p> <p>Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described</p> <p>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p> <p><b><u>UNREINFORCED CONCRETE CAST ON/IN FORMWORK</u></b></p> <p><b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b></p>	
<b>Carried Forward</b>	R
<p>Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)</p>	

Brought Forward			R
	<u>25MPa 19mm concrete</u>		
16	Surface blinding under surface beds	m3	6
<b><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></b>			
<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
	<u>25MPa 19mm concrete</u>		
17	Strip footings	m3	11
18	Surface beds cast in panels on waterproofing	m3	6
19	Thickening under surface bed	m3	3
20	In aprons/pavings/ramps cast in panels	m3	3
<b><u>REINFORCEMENT</u></b>			
	<u>Fabric reinforcement</u>		
21	Type 245 fabric reinforcement in concrete surface beds, etc.	m2	55
<b><u>TEST CUBES</u></b>			
22	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	3
<u>User note</u>			
<i>In lieu of the above the requirements in respect of quality control can be described and the total volume of concrete subject to control given in cubic meters (normally the reinforced concrete only). There are specialist companies who offer a control service based on a rate per cubic meter</i>			
<b><u>CONCRETE SUNDRIES</u></b>			
Carried Forward			R
Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)			

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	Brought Forward			R
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
23	Surface beds, slabs, etc	m2	88	
24	Aprons, pavings, ramps, etc	m2	33	
	<b><u>FORMWORK</u></b>			
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>			
	<u>Rough formwork to</u>			
25	Edges, risers, ends and reveals exceeding 300mm high or wide	m	29	
	<b><u>MOVEMENT JOINTS ETC</u></b>			
	<u>Expansion joints with 12mm softboard bitumen impregnated softboard closed cell expanded polyethylene between vertical concrete and brick surfaces</u>			
26	5mm wide x 22mm thick in expansion joint in tiled floors including cleaning tile joint as necessary	m	29	
	<b><u>REINFORCEMENT</u></b>			
	<b><u>REINFORCEMENT (PROVISIONAL)</u></b>			
	<u>Mild steel reinforcement to structural concrete work</u>			
27	All diameter bars.	t	1.20	
	<u>High tensile steel reinforcement to structural concrete work</u>			
28	All diameter bars.	t	1.20	
	<b><u>Concrete Water Trough</u></b>			
	<u>Concrete water trough</u>			
29	<u>Water trough</u>	No	2	
	<b>Carried Forward</b>			R
	Section No. 8			
	Bill No. 1			
	1 x 8 Toilets (8 Toilets)			

Brought Forward	R
<p><b><u>BILL NO 3</u></b></p> <p><b><u>MASONRY</u></b></p> <p><u>User note</u></p> <p><i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i></p> <p><i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i></p> <p><i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i></p> <p><i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i></p> <p><b><u>BRICKWORK</u></b></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><u>User note</u></p> <p><i>The following preamble generally applies for works in hot and humid coastal areas</i></p>	
Carried Forward	R
<p>Section No. 8</p> <p>Bill No. 1</p> <p>1 x 8 Toilets (8 Toilets)</p>	

<b>Brought Forward</b>	R
<p><u>Bagged and sealed walls</u></p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p><b><u>BLOCKWORK</u></b></p> <p><u>Concrete masonry units</u></p> <p>Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7MPa</p> <p><u>Wall ties for blockwork</u></p> <p>Wall ties shall be polypropylene ties complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other</p> <p><u>Blockwork</u></p> <p>Blockwork shall comply with SANS 10145 "Concrete Masonry Construction"</p>	
<b>Carried Forward</b>	R
<p>Section No. 8</p> <p>Bill No. 1</p> <p>1 x 8 Toilets (8 Toilets)</p>	

Brought Forward			R
Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole			
<u>Standard complementary blocks</u>			
Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary			
<b><u>DECORATIVE BLOCKS</u></b>			
Blocks shall be of approved manufacture, sound, well burnt or cured and uniform and true in size, shape and colour			
<b><u>BRICKWORK</u></b>			
<b><u>FOUNDATIONS (PROVISIONAL)</u></b>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>			
30	Half brick walls	m2	2
31	One brick walls	m2	8
<b><u>SUPERSTRUCTURE</u></b>			
<u>Brickwork of NFP bricks in class II mortar</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar in loadbearing walls etc</u>			
<u>Brickwork of concrete bricks in class II mortar</u>			
Carried Forward			R
Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)			

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	<b>Brought Forward</b>			<b>R</b>	
	<u>Brickwork of calcium silicate bricks in class II mortar</u>				
32	Half brick wall	m2	23		
33	One brick walls	m2	132		
34	One brick walls in beamfilling	m2	3		
	<u>2.5mm Brickwork reinforcement</u>				
	<u>2.5mm Galvanised brick reinforcement</u>				
35	75mm Wide reinforcement built in horizontally	m	68		
36	150mm Wide reinforcement built in horizontally	m	373		
	<u>Turning pieces to lintels etc</u>				
37	300mm Wide turning pieces	m	17		
	<u>Galvanised wire ties etc</u>				
38	4mm Diameter roof tie 2m girth bent double, with one end built into brickwork and other end fixed to timber	No	58		
	<u>Air bricks etc</u>				
39	229 x 76mm Terracotta air bricks	No	3		
	<b><u>FACE BRICKWORK</u></b>				
	<u>Facings in approved face bricks (FBS) with a PC Amount of R4,500.00 per thousand bricks delivered to site (excluding VAT) pointed with square recessed horizontal and vertical joints</u>				
	<u>User note</u>				
40	Extra over brickwork in foundations for face brickwork (Provisional)	m2	10		
41	Extra over brickwork for face brickwork	m2	127		
42	Extra over brickwork to beamfilling for face brickwork (Provisional)	m2	23		
	<b>Carried Forward</b>			<b>R</b>	
	Section No. 8				
	Bill No. 1				
	1 x 8 Toilets (8 Toilets)				



Brought Forward			R
	<u>Brick-on-edge header course copings, sills, etc of face bricks, pointed with flush recessed joints on all exposed faces</u>		
43	Face brick-on-edge flat lintel course in cement mortar 220mm wide on soffit and pointing on 110mm wide projecting soffit and one side	m	17
44	Cut face brick-on-edge external window cill, 180mm wide, set sloping and slightly projecting in cement mortar and pointed on top, front edge and projecting soffit including all necessary fair raking cutting to facings under and fair and fitted ends	m	17
<b><u>BILL NO 4</u></b>			
<b><u>WATERPROOFING</u></b>			
<u>User note</u>			
<i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i>			
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<i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i>			
Carried Forward			R
Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)			

Brought Forward			R
<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			
<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>			
<u>User note</u>			
<i>Where SANS 952-1985 in the following headings is not applicable, refer to other suitable construction standards or provide full specifications</i>			
<u>One layer 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B)</u>			
45	In walls	m2	12
<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>			
46	Under surface beds	m2	55
<b><u>BILL NO 5</u></b>			
<b><u>ROOF COVERINGS, CLADDINGS, ETC</u></b>			
Carried Forward			R
Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)			

<b>Brought Forward</b>	R
<p><u>User note</u></p> <p><i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i></p> <p><i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i></p> <p><i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i></p> <p><i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i></p> <p><i>Where battens for roof coverings form part of the plate nailed timber roof truss design it shall be included under the roof construction in the "Carpentry and Joinery" trade and not under this trade</i></p> <p><b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b></p> <p><u>User note</u></p> <p><i>Profiled metal sheeting is available in various thicknesses</i></p> <p><i>Usually Z275 spelter galvanising is used in inland areas and Z600 spelter galvanising for coastal areas. However galvanised sheeting is generally not used in coastal areas</i></p> <p><i>When the pitch of troughed roof covering is less than 5 degrees or if dustproofing is required then the description of roof coverings "with side laps sealed" is to be used</i></p>	
<b>Carried Forward</b>	R
<p>Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)</p>	

Brought Forward			R
<p><i>Where roof coverings are fixed on top of rigid board insulation to purlins etc they are to be described as such</i></p> <p><i>Note that besides galvanised steel, sheeting is also available in corten steel, stainless steel, copper and aluminium</i></p> <p><u>0.8mm Colomet finished galvanised metal IBR profile roof sheeting @17 pitch on insulation on 76 x 50mm purlins at 750mm centres on prefabricated trusses to details and specifications</u></p>			
47	Roof covering with pitches not exceeding 25 degrees	m2	58
<u>Klip-Lok 406' Flashings:</u>			
48	Ridge cappings 550mm girth	m	11
49	Hip cappings 550mm girth	m	5
<b><u>ROOF AND WALL INSULATION</u></b>			
<u>User note</u>			
<p><i>Where SANS 1381-4 and SANS 0177-3 in the following heading is not applicable, refer to other suitable construction standards or provide full specifications</i></p> <p><u>4mm Thick double-sided aluminium foil insulation</u></p>			
50	Insulation sheeting fixed to underside of rafters at approximately 750mm centres with 150mm stapled laps including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m2	58
<b><u>BILL NO 6</u></b>			
<b><u>CARPENTRY AND JOINERY</u></b>			
Carried Forward			R
Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)			

<b>Brought Forward</b>	R
<p><u>User note</u></p> <p><i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i></p> <p><i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i></p> <p><i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i></p> <p><i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i></p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere</p> <p><u>Decorative thermosetting plastic laminate covering</u></p> <p>Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish</p> <p><b><u>STRUCTURAL TIMBERWORK ETC</u></b></p> <p><u>Sawn softwood grade 6</u></p>	
<b>Carried Forward</b>	R
<p>Section No. 8</p> <p>Bill No. 1</p> <p>1 x 8 Toilets (8 Toilets)</p>	

Brought Forward		R	
<u>User note</u>			
<i>The following 2 items will only occur when the battens are not included under the roof covering or plate nailed roof construction</i>			
<b><u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC</u></b>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Trusses are at maximum 750mm centres			
Roof covering is type chromadek on purlins			
References given in descriptions refer to the respective types of trusses detailed on the architect's/engineer's drawings numbered or annexed to these bills of quantities for tender purposes			
Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences			
<u>Sawn softwood grade 6</u>			
51	Roof construction with one pitch, 5 x 10.78m overall on plan x 1.5mm high overall, including trusses, jack rafters, permanent bracing and 76 x 50mm purlins at 750mm centres for roof covering (wall plates elsewhere)	Item	
<b><u>ROOF BOARDING</u></b>			
<u>Sawn softwood</u>			
52	Extra over fibre-cement ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	6
<b><u>EAVES, VERGES, ETC</u></b>			
<u>Sawn softwood</u>			
<u>Wrought softwood</u>			
<u>Wrought meranti</u>			
Carried Forward		R	
Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)			

	<b>Brought Forward</b>			R
	<p><u>High density plain fibre-cement fascias and barge boards</u></p> <p><u>User note</u></p> <p><i>High density plain fascias and barge boards are available in 10mm and 15mm thicknesses and medium density plain fascias and barge boards in 12mm thickness only</i></p> <p><i>Textured fascias and barge boards are available in medium density only in thicknesses of 9mm and 12mm</i></p> <p><i>Standard widths are 150mm, 225mm and 300mm for plain fascias and barge boards and 150mm and 225mm for textured fascias and barge boards</i></p>			
53	<p>12 x 225mm Fascias and barge boards, including galvanised steel aluminium H-profile joiners</p>	m	32	
	<b><u>FLOORS AND SKIRTINGS</u></b>			
	<b><u>SKIRTINGS</u></b>			
	<u>Wrought meranti</u>			
54	<p>18 x 75mm Wrought Skirtings including 19mm quadrant bead nailed and silicone between skirting and flooring</p>	m	56	
	<b><u>TIMBER DOORS, WINDOWS, ETC</u></b>			
	<u>Fire doors</u>			
	<u>User note</u>			
	<p><i>Where SANS 1253 in the following description is not applicable, refer to other suitable construction standards or provide full specifications</i></p> <p>Fire doors are to be in accordance with SANS 1253</p>			
	<b><u>DOORS ETC</u></b>			
	<b>Carried Forward</b>			R
	<p>Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)</p>			

Brought Forward			R
<u>Solid meranti framed, ledged and braced batten doors with masonite veneer to internal face suitable for painting (painting elsewhere measured)</u>			
55	Code SA03 Standard Semi-solid medium dutty flush panel door leaf. 40mm thick with masonite veneer faces suitable for painting and edges to match veneer	No	6
56	Code SA06 Purpose made semi-solid medium duty flush panel door leaf. 40mm thick with masonite veneer faces suitable for painting and edges to match veneer	No	2
57	Code SA09 Standard solid meranti framed, ledged and braced batten door leafs. 40mm thick with masonite venner on inside face suitable for painting or varnishing as per finishing schedule. with rebated meeting styles	No	2
<b><u>BILL NO 7</u></b>			
<b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b>			
<u>User note</u>			
<i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i>			
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<i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i>			
Carried Forward			R
Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)			



<b>Brought Forward</b>				R
<u>Fixing</u>				
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete				
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere				
<u>Ceilings</u>				
Unless otherwise described ceilings shall be deemed to be horizontal				
<u>Bulkheads</u>				
Unless otherwise described bulkheads shall be deemed to be horizontal along the length				
<u>Steel components</u>				
All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121				
<b><u>CEILING TIMBERS, BEADS, INSULATION, ETC</u></b>				
<u>Non-combustible fibreglass insulation of a density of not less than 10kg/m3 bonded with an inert thermo-setting</u>				
58	115mm Thick insulation in blanket form closely fitted and laid on top of branderling between roof timbers etc.	m2	34	
<b><u>NAILED-UP CEILINGS</u></b>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Openings</u>				
Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc				
<b>Carried Forward</b>				R
Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)				

Brought Forward			R
	<u>6mm Everite Nutec fibre-cement boards or similar approved with H-profile primed steel jointing and cover strips over joints, in accordance with manufacturers installation specifications</u>		
59	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres	m2	34
	<u>Gypsum plasterboard cornices</u>		
60	75mm Coved cornices including sealing with silicone between brickwork and cornice	m	61
<b><u>BILL NO 8</u></b>			
<b><u>IRONMONGERY</u></b>			
<u>User note</u>			
<i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i>			
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<i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i>			
Carried Forward			R
Section No. 8			
Bill No. 1			
1 x 8 Toilets (8 Toilets)			

Brought Forward			R
<p><u>Proprietary items</u></p> <p>Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items</p> <p>Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered</p> <p>On request returnable samples are to be provided to the principal agent for consideration</p> <p><b><u>HINGES, BOLTS, ETC</u></b></p> <p><u>Manufactured by Dormakaba or similar approved:</u></p>			
61	3 x 100mm Mild steel butterfly hinge	No	10
<p><b><u>LOCKS</u></b></p> <p><u>Keys</u></p> <p>Unless otherwise described locks shall have two keys each</p> <p><b><u>"EN-SUITE" LOCKS</u></b></p> <p>The following locks are to be suitable for master key operation</p> <p>The following locks are to be suitable for master and grand master key operation</p> <p><u>Manufactured by Dormakaba or similar approved:</u></p> <p><u>Locks installed in timber or aluminium doors:</u></p>			
62	"DMWC SS 008" Stainless steel bathroom deadlock size 38mm high x 76mm deep	No	10
<p><b><u>HANDLES</u></b></p> <p><u>Manufactured by Dormakaba or similar approved:</u></p>			
Carried Forward			R
<p>Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)</p>			

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Brought Forward		R	
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
Signs are to comply with SANS 1186-1 to 5 and to be to the approval of the local authority. Signs are to have anodised aluminium frames			
Prices are to include for fixing by approved methods. The use of double sided tape will not be permitted. Surface mounted signs are to be concealed fixed and ceiling mounted signs are to be hung with 2mm diameter stainless steel cables			
Single sided ceiling mounted signs are to have 2mm satin chrome anodised aluminium back panels			
Samples, specifications, literature, etc of materials and fabricated articles the tenderer proposes to use shall be submitted with the tender			
A ten year guarantee on materials and workmanship shall be submitted by the successful tenderer			
References at the end of the item descriptions are to the relative items on drawings annexed to issued separately with these bills of quantities			
<u>Wall mounted photoluminescent statutory signs in 150 x 150mm modules</u>			
67	190 x 190 x 3mm Thick white perspex international FB2 sign plate with red fire extinguisher symbol plugged to brickwork	No	6
<b><u>SUNDRIES</u></b>			
<u>Manufactured by Dormakaba or similar approved:</u>			
<u>Door stops, coat hooks, etc.:</u>			
68	Stainless steel half moon door stop or similar approved, plugged and screwed to floor	No	10
<b><u>BATHROOM FITTINGS</u></b>			
Carried Forward		R	
Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)			

Ndzalama Primary School Provisional Bill of Quantities  
Independent Development Trust  
Limpopo Department of Education

Brought Forward			R
<u>Manufactured by dormakaba or similar approved</u>			
69	Chromium plated stainless steel polished brass, lockable toilet roll holder, plugged	No	8
70	Soap dispenser, plugged	No	4
71	Paper towel dispenser, plugged	No	4
72	32mm chromium plated stainless steel back grab rail	No	2
73	32mm chromium plated stainless steel side grab rail, plugged	No	2
<b><u>BILL NO 9</u></b>			
<b><u>METALWORK</u></b>			
<u>User note</u>			
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Carried Forward			R
Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)			

<b>Brought Forward</b>	<b>R</b>
<p><u>Descriptions of bolts, anchors, etc</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres</p> <p><u>Aluminium doors, windows, etc</u></p> <p>Doors and windows shall comply with AAAMSA design criteria</p> <p>Glazing shall comply with SAGGA regulations. Glass shall be laminated performance glass as shown on the window schedules/drawings appended to these bills of quantities (as described in the headings to window descriptions). Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings</p> <p>Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed</p> <p>For purpose made windows and doors, refer to drawings annexed to issued separately with these bills of quantities</p>	
<b>Carried Forward</b>	<b>R</b>
<p>Section No. 8</p> <p>Bill No. 1</p> <p>1 x 8 Toilets (8 Toilets)</p>	

Brought Forward		R	
The following certificates shall be provided prior to commencement of site work:			
1	A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product		
2	A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively		
3	A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process		
4	A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked		
5	A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for		
a	period of not less than five years		
<b><u>STEEL GATES, SCREENS, ETC</u></b>			
<b><u>GALVANISED STEEL GATES, SCREENS, ETC</u></b>			
<u>Welded screens and gates to steel door frames</u>			
74	Single gate 914 x 2032mm high of 25 x 25 x 2.5mm square tubing sections mitre 45 degrees at corners before welding with (x2) horizontal midrail sections out of same sections with vertical styles out of 25 x 25 x 2.5mm mild steel tubing at equal centres with maximum of 100mm openings, including 3 pairs of 20mm diameter bullet-hinges, lockset 'solid blesbok) 460/313 four lever lockset with rebate set.	No	2
Carried Forward		R	
Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)			



Brought Forward			R
<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
<b><u>GALVANISED PRESSED STEEL DOOR FRAMES</u></b>			
<u>1.2mm thick pressed metal steel frame with double rebate with double rebate complete with lugs and base ties as supplied by manufacturer suitable for 115mm wall</u>			
75	Frame for door 877 x 2064mm high	No	8
76	Frame for door 964 x 2064mm high	No	2
<b><u>STEEL WINDOWS, DOORS, ETC</u></b>			
<b><u>GALVANISED STEEL WINDOWS, DOORS, ETC</u></b>			
<u>Standard school windows</u>			
77	Window type NE5, 533 x 654mm high	No	16
<b><u>STEEL WINDOW SUNDRIES</u></b>			
78	25 x 25 x 3mm Mild steel square tube beading mitred and welded to window or door framing on inside at junction with facings	m2	11
79	Extra for flat closed end	No	16.00
<b><u>BILL NO 10</u></b>			
<b><u>PLASTERING</u></b>			
Carried Forward			R
Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)			

<b>Brought Forward</b>	R
<p><u>User note</u></p> <p><i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i></p> <p><i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i></p> <p><i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i></p> <p><i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i></p> <p><i>The following preambles are to be included only when specifically required by the principal agent</i></p> <p><b><u>GRANOLITHIC</u></b></p> <p><u>Method</u></p> <p>The method to be used shall be either the monolithic method or the bonded method</p>	
<b>Carried Forward</b>	R
<p>Section No. 8</p> <p>Bill No. 1</p> <p>1 x 8 Toilets (8 Toilets)</p>	

<b>Brought Forward</b>	R
<p><u>Preparation</u></p> <p>For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic</p> <p><u>Mix</u></p> <p>Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic</p> <p><u>Panels</u></p> <p>Granolithic shall be laid in panels not exceeding 14m<sup>2</sup> for monolithic finishes, not exceeding 9,5m<sup>2</sup> for bonded finishes and not exceeding 6m<sup>2</sup> for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width</p> <p>Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints</p> <p><u>Laying</u></p> <p>Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels</p>	
<b>Carried Forward</b>	R
<p>Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)</p>	

	<b>Brought Forward</b>		R	
	<p>Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels</p> <p>After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated</p> <p><u>Curing, seasoning and protection</u></p> <p>Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying</p> <p><u>Colour</u></p> <p>Coloured granolithic shall be tinted with an approved colouring pigment mixed into the granolithic in the proportion of 5 kg pigment per pocket of cement, of uniform appearance and consistent colour throughout</p> <p><b><u>SCREEDS</u></b></p> <p><u>Screeds wood floated, on concrete</u></p> <p><u>Screeds steel trowelled, on concrete</u></p> <p><b><u>CEMENT RENDER</u></b></p> <p><u>User note</u></p> <p><i>Cement render is a suitable finish to floors of store rooms etc where granolithic is not specifically required</i></p> <p><u>Untinted 1:3 cement render steel trowelled, on concrete</u></p> <p><b><u>GRANOLITHIC</u></b></p> <p><u>Untinted granolithic, on concrete</u></p>			
80	20mm Thick on floors and landings	m2	34	
	<b>Carried Forward</b>		R	
	<p>Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)</p>			

Brought Forward			R
<b><u>INTERNAL PLASTER</u></b>			
<u>Cement plaster on brickwork:</u>			
<u>Cement plaster wood floated for tiles, on brickwork</u>			
81	On walls	m2	150
82	On narrow widths.	m2	2
<b><u>BILL NO 11</u></b>			
<b><u>TILING</u></b>			
<u>User note</u>			
<i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i>			
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<i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i>			
<u>Patterns</u>			
Unless otherwise described, tiles shall be laid with continuous joints in both directions			
Carried Forward			R
Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)			

Brought Forward			R
<p><u>Fixing</u></p> <p>Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding</p> <p>Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat</p> <p>Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles</p> <p><b><u>WALL TILING</u></b></p> <p><u>200 x 200 x 5mm White matt glazed ceramic tiles fixed with adhesive to plaster (plaster elsewhere)</u></p>			
83	On walls in isolated panels, splashbacks, etc not exceeding 1m²	m2	4
<p><b><u>FLOOR TILING</u></b></p> <p><u>User note</u></p> <p><i>Waterproof grout is normally used in showers, on balconies, etc. Epoxy grout is used in kitchens, butcheries, etc, where floors are frequently washed with detergents</i></p> <p><u>200 x 200 x 10mm ceramic floor tiles on 20mm bedding on concrete and flush pointed with tinted waterproof grout</u></p>			
84	On floors	m2	34
<p><b><u>BILL NO 12</u></b></p> <p><b><u>PLUMBING AND DRAINAGE</u></b></p> <p><b><u>(PROVISIONAL)</u></b></p>			
Carried Forward			R
<p>Section No. 8</p> <p>Bill No. 1</p> <p>1 x 8 Toilets (8 Toilets)</p>			

<b>Brought Forward</b>	R
<p><u>User note</u></p> <p><i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i></p> <p><i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i></p> <p><i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i></p> <p><i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i></p> <p><u>Wire gratings</u></p> <p>Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings</p> <p><u>Stormwater channels</u></p> <p>Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site</p> <p><u>French drains</u></p> <p>Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site</p>	
<b>Carried Forward</b>	R
<p>Section No. 8</p> <p>Bill No. 1</p> <p>1 x 8 Toilets (8 Toilets)</p>	

<b>Brought Forward</b>	R
<p><u>Septic tanks</u></p> <p>Descriptions of proprietary type septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions and disposal of surplus material on site</p> <p><u>Stainless steel basins, sinks, wash troughs, urinals, etc</u></p> <p>Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)</p> <p>Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)</p> <p>Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)</p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><u>Sealing of edges</u></p> <p>Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone</p> <p><u>PVC-U pipes and fittings</u></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings</p> <p><u>PVC-U pressure pipes and fittings</u></p> <p>Pipes of 50mm diameter and smaller shall be plain ended with solvent welded PVC-U loose sockets and fittings</p> <p>Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be PVC-U and all other fittings shall be cast iron, all with similar push-in type joints</p>	
<b>Carried Forward</b>	R
<p>Section No. 8</p> <p>Bill No. 1</p> <p>1 x 8 Toilets (8 Toilets)</p>	



<b>Brought Forward</b>	R
<p><u>High density polyethylene (HDPE) pipes and fittings</u></p> <p>Pipes shall be type IV and of the class specified with compression fittings</p> <p><u>Polypropylene pipes</u></p> <p>Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings</p> <p>Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p><u>Copper pipes</u></p> <p>Pipes shall be hard drawn and half-hard pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-siphon pipes, capillary solder fittings and compression fittings. Capillary solder fittings shall comply with ISO 2016</p> <p>Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition</p> <p><u>Reducing fittings</u></p> <p>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</p>	
<b>Carried Forward</b>	R
<p>Section No. 8</p> <p>Bill No. 1</p> <p>1 x 8 Toilets (8 Toilets)</p>	

<b>Brought Forward</b>	R
<p><u>Fixing of pipes</u></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level</p> <p><u>Paper wrapping to pipes</u></p> <p>Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings</p> <p><u>Disinfection of water pipework</u></p> <p>Water pipework is to be disinfected at completion</p> <p><u>Petrolatum anti-corrosion tape</u></p> <p>Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with overlaps</p> <p>Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions</p> <p>Prices for wrapping of pipes shall include for all work as described to couplings in the length</p> <p><u>Laying, backfilling, bedding, etc of pipes</u></p> <p>Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled</p> <p>Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001</p>	
<b>Carried Forward</b>	R
<p>Section No. 8</p> <p>Bill No. 1</p> <p>1 x 8 Toilets (8 Toilets)</p>	

Brought Forward			R
<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, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site			
Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)			
Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)			
<u>As-built drawings</u>			
Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)			
<b><u>RAINWATER DISPOSAL</u></b>			
<u>0.6mm Galvanised sheet steel gutters and rainwater pipes</u>			
85	100 x 75mm Roof gutters with beaded front edge	m	32
86	Extra over gutter for outlet for 100 x 75mm rainwater pipe	No	2
87	Extra over rainwater pipe for shoe	No	2
Carried Forward			R
Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)			

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		Brought Forward		R	
88	100 x 100mm Rainwater pipes	m	3		
89	Extra over eaves gutter for angle.	No	4		
	<b><u>SANITARY FITTINGS</u></b>				
	<u>'Vaal Sanitary ware' or similar approved</u>				
90	455 x 290mm 'Bantam' white vitreous china cloakroom basin (product code 7030) with two tapholes, including integrated overflow and chainstay hole, and 2 no. 'Star' pillar-taps, bolted to wall with two 10mm bolts (product code 8448Z0).560 x 405mm White vitreous china wash hand basin complete with and including two chromium plated pillar taps, waste, plug and chain and concealed brackets	No	8		
91	'Hibiscus' white colour vitreous china close-coupled washdown suite (product code 772602) comprising 90° outlet open rim pan (product code 772610) and matching 9 litre cistern (product code 710531), including lid, fitments, etc., bedded in 4:1 cement mortar on concrete floors.	No	6		
92	Paraplegic semi close coupled suite with raised LL pan with 6L bottom inlet cistern with purpose made CP side flush lever,	No	2		
	<b><u>WASTE UNIONS ETC</u></b>				
	<u>Manufactured by dormakaba or similar approved</u>				
93	32mm chromium plated basin waste union	No	8		
	<b><u>TRAPS ETC</u></b>				
94	32 x 50mm Deep seal "P" or "S" trap	No	8		
	<b><u>TAPS, VALVES, ETC</u></b>				
95	15mm chromium plated sink mixer	No	8		
	<b><u>SANITARY PLUMBING</u></b>				
	<u>PVC-U soil and vent pipes</u>				
96	50mm Pipes	m	45		
	<b>Carried Forward</b>			R	
	Section No. 8				
	Bill No. 1				
	1 x 8 Toilets (8 Toilets)				

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	<b>Brought Forward</b>			R	
97	110mm pipes	m	30		
	<u>Extra over PVC-U soil and vent pipes for fittings</u>				
98	110mm Pan connector	No	8		
99	50mm Bend	No	8		
100	110mm Bend	No	8		
101	50mm Junction	No	8		
102	50mm Access junction	No	8		
103	50mm Access bend	No	8		
104	110mm Access junction	No	8		
105	50mm Access reducing junction	No	8		
106	50mm "GI Two-way" vent valve	No	8		
	<b><u>WATER SUPPLIES</u></b>				
	<u>Galvanized steel pipes:</u>				
107	32mm Pipes laid in trenches not exceeding 1m deep.	m	60		
	<u>Class 0 copper pipes</u>				
108	15mm Pipes	m	45		
109	15mm Pipes chased into brickwork	m	54		
110	22mm Pipes	m	45		
111	22mm Pipes chased into brickwork	m	54		
	<u>Extra over class 0 copper pipes for capillary fittings</u>				
112	15mm Fittings	No	8		
113	22mm Fittings	No	8		
	<b>Carried Forward</b>			R	
	Section No. 8				
	Bill No. 1				
	1 x 8 Toilets (8 Toilets)				

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Brought Forward			R
	<u>Copper overflow and service pipes</u>		
114	15mm Service pipe 350mm girth	No	12
	<u>Sundries</u>		
115	450 x 450mm Cast iron stopcock box including brick chamber below not exceeding 500mm deep internally.	No	1
	<u>TESTING</u>		
116	Provide all necessary apparatus, water, etc for and test the whole of the Sanitary Plumbing and Water Supply installation to the satisfaction of the Project Manager, replace any defective work free of charge and leave perfect		Item
	<u>FIRE APPLIANCES ETC</u>		
117	SABS approved Chubb (08407W) or similar approved hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket as per Eng. detail & specifications	No	1
118	9kg Chubb (04504W) Dry Chemical (DCP) Fire Extinguisher or similar approved, fixed onto wall	No	2
	<u>BILL NO 13</u>		
	<u>GLAZING</u>		
Carried Forward			R
Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)			

Brought Forward		R
<p><u>User note</u></p> <p><i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i></p> <p><i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i></p> <p><i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i></p> <p><i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i></p> <p><u>Float glass</u></p> <p>The term "float glass" is used for monolithic annealed glass</p> <p><u>Laminated glass</u></p> <p>Laminated glass to have polyvinyl butyral (PVB) interlayer(s)</p> <p><b><u>GLAZING TO STEEL WITH PUTTY</u></b></p> <p><u>4mm Clear float glass</u></p>		
119	<p>Panes exceeding 0,1m<sup>2</sup> and not exceeding 0,5m<sup>2</sup></p> <p><b><u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u></b></p>	<p>m2</p> <p>11</p>
Carried Forward		R
<p>Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)</p>		

[illegible]



<b>Brought Forward</b>	R
<p><i>Attention is drawn to the measurement rules in the measuring system regarding paint colours which read as follows:</i></p> <p>"4.     <i>Paintwork shall be classified in the different colour groups "White", "Pastel", "Deep" and "Transparent" (in accordance with the Natural Colour System (NCS) adopted by the SA National Standards)"</i></p> <p style="padding-left: 40px;"><i>and</i></p> <p>"5.     <i>Paintwork in one colour group may be given as extra over paintwork in another colour group"</i></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>PREPARATORY WORK TO EXISTING WORK</u></b></p> <p><u>Previously painted plastered surfaces</u></p> <p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</p> <p><u>Previously painted metal surfaces</u></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p><u>Previously painted wood surfaces</u></p> <p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</p> <p><b><u>PAINT SPECIFICATIONS</u></b></p> <p>All painting shall be done in accordance with specifications unless otherwise described</p> <p><b><u>COLOURS</u></b></p>	
<b>Carried Forward</b>	R
<p>Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)</p>	

Brought Forward			R
<u>User note</u>			
<p><i>In the event of the colour scheme for the project not being available when required for the preparation of quantities, it is recommended that either all paintwork be described as being in the "White" colour group or that ceilings be described as being in the "White" colour group and the balance being in the "Pastel" colour group and that provision be made for other colour groups by way of "extra over" items marked "Provisional" as provided for in the measuring system (See measurement rule No. 5 under item 2: Colours). The following items are examples of such "extra over" items:</i></p> <p><i>"Extra over for paintwork on components ceilings in the "White" colour group for paintwork in the "Pastel" colour group (Provisional) m<sup>2</sup>"</i></p> <p><i>"Extra over for paintwork on components in the "Pastel" colour group for paintwork in the "Deep" colour group (Provisional) m<sup>2</sup>"</i></p> <p>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</p> <p><b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b></p> <p><b><u>ON INTERNAL TEXTURED PLASTER SURFACES</u></b></p> <p><u>One coat alkali resistant primer and two coats PVA emulsion paint for interior use</u></p>			
121	Walls	m2	150
<b><u>ON FIBRE-CEMENT BOARD SURFACES</u></b>			
<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>			
122	Ceilings and cornices, including priming metal cover strips and nailheads ("White" colour group)	m2	34
Carried Forward			R
Section No. 8 Bill No. 1 1 x 8 Toilets (8 Toilets)			

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**Carried to Final Summary**

Item No	Quantity	Rate	Amount
<b><u>WATER-BORNE TOILETS</u></b>			
<b><u>BILL NO 1</u></b>			
<b><u>EARTHWORKS (PROVISIONAL)</u></b>			
<u>User note</u>			
<i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i>			
<i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i>			
<i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i>			
<i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i>			
<i>The following are typical examples of descriptions of "nature of ground"</i>			
<u>Nature of ground</u>			
The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "soft rock" or "hard rock"			
The nature of the ground is assumed to be gravel, therefore "earth", but possibly interspersed with "soft rock" or "hard rock"			
<b>Carried Forward</b>		R	
Section No. 9			
Bill No. 1			
1 x 6 Ablution Block (6 Toilets)			

<b>Brought Forward</b>	R
<p>The nature of the ground is assumed to be silty clay with loose river boulders varying in size up to approximately 450mm diameter, all of which will be deemed as "earth", but possibly interspersed with "hard rock"</p> <p>Trial holes indicate that the nature of the ground is silty clay to a depth of approximately 500mm with fine to medium loose sandy material below, therefore "earth"</p> <p>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 unweathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"</p> <p><u>User note</u></p> <p><i>The following are typical examples of descriptions of "subterranean water"</i></p> <p><u>Subterranean water</u></p> <p>No subterranean water is expected</p> <p>The water table is expected to vary below natural ground level. The removal of subterranean water is given separately</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p>	
<b>Carried Forward</b>	R
<p>Section No. 9 Bill No. 1 1 x 6 Ablution Block (6 Toilets)</p>	

<b>Brought Forward</b>	R
<p><u>Filling and layer work materials</u></p> <p>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</p> <p><u>User note</u></p> <p><i>When no information regarding density and other tests is available the following preamble in respect of testing may be inserted</i></p> <p><u>Testing</u></p> <p><i>Prices for filling are to include for all necessary density and other tests</i></p> <p><b><u>SITE CLEARANCE</u></b></p> <p><u>User note</u></p> <p><i>Where the value is of significance, the removal of hedges etc shall be given separately in meters or in number</i></p> <p><b><u>EXCAVATION, FILLING, ETC</u></b></p> <p><u>User note</u></p> <p><i>This section is given as an alternative option and in the event of it being utilised, the excavation, filling, etc other than bulk is to be given in the later section under the appropriate heading</i></p> <p><i>If this alternative is not utilised then all excavation, filling, etc (bulk and otherwise) is to be given in the later section under the appropriate heading</i></p> <p><b><u>EXCAVATIONS ETC</u></b></p>	
<b>Carried Forward</b>	R
<p>Section No. 9 Bill No. 1 1 x 6 Ablution Block (6 Toilets)</p>	

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<b>Brought Forward</b>			<b>R</b>	
	<u>Digging up topsoil</u>			
1	Digging up topsoil to an average depth of 150mm and preserving for use as filling	m3	8	
	<u>Excavation in earth not exceeding 2m deep</u>			
2	Trenches	m3	32	
	<u>Extra over excavations in earth for excavation in</u>			
3	Soft rock	m3	4	
4	Hard rock	m3	2	
	<u>Extra over all excavations for carting away</u>			
5	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	15	
	<u>Risk of collapse of excavations</u>			
6	Sides of bulk excavations not exceeding 1,5m deep	m2	76	
	<u>Keeping excavations free of water</u>			
7	Keeping excavations free of all water other than subterranean water		Item	
	<b><u>FILLING ETC</u></b>			
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 95% Mod AASHTO density</u>			
8	Backfilling from the excavations to trenches and holes compacted to 90% modified AASHTO density	m3	17	
9	Imported earth filling supplied by the Contractor and brought onto site, under solid floors, steps, paving's, etc. compacted to 90% modified AASHTO density	m3	8	
	<u>Compaction of ground surfaces</u>			
10	Compaction of natural or excavated ground surface under floors etc by wetting and compacting	m2	48	
	<b>Carried Forward</b>			
	Section No. 9			
	Bill No. 1			
	1 x 6 Ablution Block (6 Toilets)			

Brought Forward			R
<b><u>WEED KILLERS, INSECTICIDES, ETC</u></b>			
<u>Anti - termite treatment to fillings and tops of foundations: Approved insecticide treatment: applied in accordance with the manufacturer's printed instructions : include for 10 years warranty period.</u>			
11	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	48
12	To bottoms and sides of trenches etc	m2	130
<b><u>TESTS</u></b>			
<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>			
13	"Modified AASHTO Density" test	No	3
<b><u>BILL NO 2</u></b>			
<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
Carried Forward			R
Section No. 9 Bill No. 1 1 x 6 Ablution Block (6 Toilets)			



<b>Brought Forward</b>	R
<p><u>User note</u></p> <p><i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i></p> <p><i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i></p> <p><i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i></p> <p><i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i></p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately)</p> <p><u>Breeze concrete</u></p> <p>Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (1:12); the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated</p>	
<b>Carried Forward</b>	R
<p>Section No. 9</p> <p>Bill No. 1</p> <p>1 x 6 Ablution Block (6 Toilets)</p>	

<b>Brought Forward</b>	R
<p><u>Lightweight concrete</u></p> <p>Lightweight concrete shall have a density of 600kg/m<sup>3</sup> for the top 50mm and 400kg/m<sup>3</sup> for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 50mm</p> <p><u>Formwork</u></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself</p> <p>Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described</p> <p>Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described</p> <p>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p> <p><b><u>UNREINFORCED CONCRETE CAST ON/IN FORMWORK</u></b></p> <p><b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b></p>	
<b>Carried Forward</b>	R
<p>Section No. 9 Bill No. 1 1 x 6 Ablution Block (6 Toilets)</p>	

Brought Forward			R
	<u>25MPa 19mm concrete</u>		
14	Surface blinding under surface beds	m3	5
	<b><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></b>		
	<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>		
	<b><u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 20MPa at 28 days</u></b>		
15	Surface beds cast in panels on waterproofing	m3	5
16	In aprons/pavings/ramps cast in panels	m3	3
	<b><u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25MPa at 28 days</u></b>		
17	Strip footings	m3	8
	<b><u>REINFORCEMENT</u></b>		
	<u>Fabric reinforcement</u>		
18	Type 245 fabric reinforcement in concrete surface beds, etc.	m2	48
	<b><u>TEST CUBES</u></b>		
19	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	3
	<u>User note</u>		
	<i>In lieu of the above the requirements in respect of quality control can be described and the total volume of concrete subject to control given in cubic meters (normally the reinforced concrete only). There are specialist companies who offer a control service based on a rate per cubic meter</i>		
	<b><u>CONCRETE SUNDRIES</u></b>		
Carried Forward			R
Section No. 9 Bill No. 1 1 x 6 Ablution Block (6 Toilets)			

	Brought Forward			R
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
20	Surface beds, slabs, etc	m2	48	
21	Aprons, pavings, ramps, etc	m2	28	
	<b><u>FORMWORK</u></b>			
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>			
	<u>Rough formwork to</u>			
22	Edges, risers, ends and reveals exceeding 300mm high or wide	m	28	
	<b><u>MOVEMENT JOINTS ETC</u></b>			
	<u>Expansion joints with 12mm softboard bitumen impregnated softboard closed cell expanded polyethylene between vertical concrete and brick surfaces</u>			
23	Movement joint not exceeding 300mm high formed of 12mm bitumen impregnated softboard placed vertically in position between concrete surface bed and brick walls, etc. including raking out top section 10mm deep and filling with bituminous compound	m	69.00	
	<b><u>REINFORCEMENT</u></b>			
	<b><u>REINFORCEMENT (PROVISIONAL)</u></b>			
	<u>Mild steel reinforcement to structural concrete work</u>			
24	All diameter bars.	t	0.60	
	<u>High tensile steel reinforcement to structural concrete work</u>			
25	All diameter bars.	t	2.00	
	<b><u>BILL NO 3</u></b>			
	<b><u>MASONRY</u></b>			
	Carried Forward			R
	Section No. 9			
	Bill No. 1			
	1 x 6 Ablution Block (6 Toilets)			

<b>Brought Forward</b>	R
<p><u>User note</u></p> <p><i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i></p> <p><i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i></p> <p><i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i></p> <p><i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i></p> <p><b><u>BRICKWORK</u></b></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><u>User note</u></p> <p><i>The following preamble generally applies for works in hot and humid coastal areas</i></p> <p><u>Bagged and sealed walls</u></p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating</p>	
<b>Carried Forward</b>	R
<p>Section No. 9</p> <p>Bill No. 1</p> <p>1 x 6 Ablution Block (6 Toilets)</p>	

<b>Brought Forward</b>	R
<p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p><b><u>BLOCKWORK</u></b></p> <p><u>Concrete masonry units</u></p> <p>Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7MPa</p> <p><u>Wall ties for blockwork</u></p> <p>Wall ties shall be polypropylene ties complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other</p> <p><u>Blockwork</u></p> <p>Blockwork shall comply with SANS 10145 "Concrete Masonry Construction"</p> <p>Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole</p>	
<b>Carried Forward</b>	R
<p>Section No. 9</p> <p>Bill No. 1</p> <p>1 x 6 Ablution Block (6 Toilets)</p>	

Brought Forward			R
<u>Standard complementary blocks</u>			
Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary			
<b><u>DECORATIVE BLOCKS</u></b>			
Blocks shall be of approved manufacture, sound, well burnt or cured and uniform and true in size, shape and colour			
<b><u>BRICKWORK</u></b>			
<b><u>FOUNDATIONS (PROVISIONAL)</u></b>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>			
26	Half brick walls	m2	6
27	One brick walls	m2	23
<b><u>SUPERSTRUCTURE</u></b>			
<u>Brickwork of NFP bricks in class II mortar</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar in loadbearing walls etc</u>			
<u>Brickwork of concrete bricks in class II mortar</u>			
<u>Brickwork of calcium silicate bricks in class II mortar</u>			
28	Half brick wall	m2	62
29	One brick walls	m2	81
30	One brick walls in beamfilling	m2	3
<b>Carried Forward</b>			R
Section No. 9 Bill No. 1 1 x 6 Ablution Block (6 Toilets)			

**Ndzalama Primary School Provisional Bill of Quantities**  
**Independent Development Trust**  
**Limpopo Department of Education**

	<b>Brought Forward</b>			<b>R</b>	
	<u>2,5mm Brickwork reinforcement</u>				
	<u>2,5mm Galvanised brick reinforcement</u>				
31	75mm Wide reinforcement built in horizontally	m	192		
32	150mm Wide reinforcement built in horizontally	m	239		
	<u>Turning pieces to lintels etc</u>				
33	300mm Wide turning pieces	m	11		
	<u>Galvanised wire ties etc</u>				
34	4mm Diameter roof tie 2m girth bent double, with one end built into brickwork and other end fixed to timber	No	58		
	<u>Air bricks etc</u>				
35	229 x 76mm Terracotta air bricks	No	4		
	<b><u>FACE BRICKWORK</u></b>				
	<u>Facings in approved face bricks (FBS) with a PC Amount of R4,500.00 per thousand bricks delivered to site (excluding VAT) pointed with square recessed horizontal and vertical joints</u>				
	<u>User note</u>				
36	Extra over brickwork in foundations for face brickwork (Provisional)	m2	29		
37	Extra over brickwork for face brickwork	m2	81		
38	Extra over brickwork to beamfilling for face brickwork (Provisional)	m2	3		
	<u>Brick-on-edge header course copings, sills, etc of face bricks, pointed with flush recessed joints on all exposed faces</u>				
39	Face brick-on-edge flat lintel course in cement mortar 220mm wide on soffit and pointing on 110mm wide projecting soffit and one side	m	11		
	<b>Carried Forward</b>			<b>R</b>	
	Section No. 9				
	Bill No. 1				
	1 x 6 Ablution Block (6 Toilets)				



	<b>Brought Forward</b>		R
40	<p>Cut face brick-on-edge external window cill, 180mm wide, set sloping and slightly projecting in cement mortar and pointed on top, front edge and projecting soffit including all necessary fair raking cutting to facings under and fair and fitted ends</p> <p><b><u>BILL NO 4</u></b></p> <p><b><u>WATERPROOFING</u></b></p> <p><u>User note</u></p> <p><i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i></p> <p><i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i></p> <p><i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i></p> <p><i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i></p> <p><u>Waterproofing</u></p> <p>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</p> <p><b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b></p>	m	4
	<b>Carried Forward</b>		R
<p>Section No. 9 Bill No. 1 1 x 6 Ablution Block (6 Toilets)</p>			

	<b>Brought Forward</b>		R	
	<u>User note</u>			
	<i>Where SANS 952-1985 in the following headings is not applicable, refer to other suitable construction standards or provide full specifications</i>			
	<u>One layer 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B)</u>			
41	In walls	m2	9	
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>			
42	Under surface beds	m2	48	
	<b><u>BILL NO 5</u></b>			
	<b><u>ROOF COVERINGS, CLADDINGS, ETC</u></b>			
	<u>User note</u>			
	<i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i>			
	<i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i>			
	<i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i>			
	<i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i>			
	<b>Carried Forward</b>		R	
	Section No. 9			
	Bill No. 1			
	1 x 6 Ablution Block (6 Toilets)			

	<b>Brought Forward</b>		R	
	<p><i>Where battens for roof coverings form part of the plate nailed timber roof truss design it shall be included under the roof construction in the "Carpentry and Joinery" trade and not under this trade</i></p> <p><b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b></p> <p><u>User note</u></p> <p><i>Profiled metal sheeting is available in various thicknesses</i></p> <p><i>Usually Z275 spelter galvanising is used in inland areas and Z600 spelter galvanising for coastal areas. However galvanised sheeting is generally not used in coastal areas</i></p> <p><i>When the pitch of troughed roof covering is less than 5 degrees or if dustproofing is required then the description of roof coverings "with side laps sealed" is to be used</i></p> <p><i>Where roof coverings are fixed on top of rigid board insulation to purlins etc they are to be described as such</i></p> <p><i>Note that besides galvanised steel, sheeting is also available in corten steel, stainless steel, copper and aluminium</i></p> <p><u>Global Roofing Solutions 700mm cover Klip-Lok 700™ profile roll-formed in continuous lengths from 0.58mm thick Galvanised steel, Z200 spelter ISQ550 Chromadek® Traffic Green finish top coat and Pebble Grey backing coat roof sheeting, fixed to timber intermediate purlins at MAX 1200mm centres and eaves and ridge purlins at MAX 1200mm centres using KL700 plus clips fixed with 10No.11 x 45mm long self drilling wafer head PH2 screws, type 17 drill point fasteners, all in accordance with the manufacturer's specifications by a GRS approved contractor</u></p>			
43	Roof covering with pitches not exceeding 5 degrees	m2	77	
	<b><u>ROOF AND WALL INSULATION</u></b>			
	<b>Carried Forward</b>		R	
	<p>Section No. 9 Bill No. 1 1 x 6 Ablution Block (6 Toilets)</p>			

	<b>Brought Forward</b>		R	
	<p><u>User note</u></p> <p><i>Where SANS 1381-4 and SANS 0177-3 in the following heading is not applicable, refer to other suitable construction standards or provide full specifications</i></p> <p><u>Non-combustible fibreglass insulation of a density of not less than 10kg/m3 bonded with an inert thermo-setting</u></p>			
44	<p>100mm non-combustible lightweight fibreglass insulation blanket fitted between tie beams and laid loose on top of brandering underlay dressed over bottom purlin into gutter</p>	m2	77	
	<p><b><u>BILL NO 6</u></b></p> <p><b><u>CARPENTRY AND JOINERY</u></b></p> <p><u>User note</u></p> <p><i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i></p> <p><i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i></p> <p><i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i></p> <p><i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i></p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 9</p> <p>Bill No. 1</p> <p>1 x 6 Ablution Block (6 Toilets)</p>			

<b>Brought Forward</b>	R
<p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere</p> <p><u>Decorative thermosetting plastic laminate covering</u></p> <p>Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish</p> <p><b><u>STRUCTURAL TIMBERWORK ETC</u></b></p> <p><u>Sawn softwood grade 6</u></p> <p><u>User note</u></p> <p><i>The following 2 items will only occur when the battens are not included under the roof covering or plate nailed roof construction</i></p> <p><b><u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC</u></b></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Trusses are at maximum 750mm centres</p> <p>Roof covering is type chromadek on purlins</p> <p>References given in descriptions refer to the respective types of trusses detailed on the architect's/engineer's drawings numbered or annexed to these bills of quantities for tender purposes</p> <p>Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences</p>	
<b>Carried Forward</b>	R
<p>Section No. 9</p> <p>Bill No. 1</p> <p>1 x 6 Ablution Block (6 Toilets)</p>	

Brought Forward			R
	<u>Sawn softwood grade 6</u>		
45	Roof construction with one pitch, 6.475 x 9.765m overall on plan x 1.2mm high overall, including trusses, jack rafters, permanent bracing and 76 x 50mm purlins at 750mm centres for roof covering (wall plates elsewhere)	Item	
	<b><u>EAVES, VERGES, ETC</u></b>		
	<u>Sawn softwood</u>		
	<u>Wrought softwood</u>		
	<u>Wrought meranti</u>		
	<u>High density plain fibre-cement fascias and barge boards</u>		
	<u>User note</u>		
	<i>High density plain fascias and barge boards are available in 10mm and 15mm thicknesses and medium density plain fascias and barge boards in 12mm thickness only</i>		
	<i>Textured fascias and barge boards are available in medium density only in thicknesses of 9mm and 12mm</i>		
	<i>Standard widths are 150mm, 225mm and 300mm for plain fascias and barge boards and 150mm and 225mm for textured fascias and barge boards</i>		
46	12 x 225mm medium density flat plain Éverite, Nutec Fibre cement boards	m	29
	<b><u>TIMBER DOORS, WINDOWS, ETC</u></b>		
	<u>Fire doors</u>		
	<u>User note</u>		
	<i>Where SANS 1253 in the following description is not applicable, refer to other suitable construction standards or provide full specifications</i>		
	Fire doors are to be in accordance with SANS 1253		
	<b>Carried Forward</b>		R
	Section No. 9		
	Bill No. 1		
	1 x 6 Ablution Block (6 Toilets)		

Brought Forward			R
<b><u>DOORS ETC</u></b>			
<u>Semi-solid Medium Duty flush panel door leaf. 40mm thick with masonite veneer faces suitable for painting and edges to match veneer.</u>			
47	40mm thick with masonite veneer faces suitable for painting and edges to match veneer. Code DS23A	No	8
<b><u>Nu-tec Board</u></b>			
48	20mm thick nu-tec boards as internal window cill	m	4
<b><u>BILL NO 7</u></b>			
<b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b>			
<u>User note</u>			
<i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i>			
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<i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i>			
Carried Forward			R
Section No. 9			
Bill No. 1			
1 x 6 Ablution Block (6 Toilets)			

	<b>Brought Forward</b>			R
	<p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere</p> <p><u>Ceilings</u></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><u>Bulkheads</u></p> <p>Unless otherwise described bulkheads shall be deemed to be horizontal along the length</p> <p><u>Steel components</u></p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121</p> <p><b><u>CEILING TIMBERS, BEADS, INSULATION, ETC</u></b></p> <p><u>Mineral wool insulation</u></p>			
49	Cellulose ceiling insulation laid loose over ceiling in roof void	m2	38	
	<b><u>NAILED-UP CEILINGS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<p><u>Openings</u></p> <p>Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc</p>			
	<b>Carried Forward</b>			R
	<p>Section No. 9</p> <p>Bill No. 1</p> <p>1 x 6 Ablution Block (6 Toilets)</p>			



Brought Forward			R
	<u>6mm Everite Nutec fibre-cement boards or similar approved with H-profile primed steel jointing and cover strips over joints, in accordance with manufacturers installation specifications</u>		
50	Ceilings including 38 x 38mm sawn softwood bandering at 400mm centres	m2	38
	<u>Sawn softwood</u>		
51	Extra over fibre-cement ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	2
	<u>Gypsum plasterboard cornices</u>		
52	75mm Coved cornices including sealing with silicone between brickwork and cornice	m	56
<b><u>BILL NO 8</u></b>			
<b><u>IRONMONGERY</u></b>			
<u>User note</u>			
<i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i>			
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<i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i>			
Carried Forward			R
Section No. 9 Bill No. 1 1 x 6 Ablution Block (6 Toilets)			

Brought Forward			R
<p><u>Proprietary items</u></p> <p>Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items</p> <p>Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered</p> <p>On request returnable samples are to be provided to the principal agent for consideration</p> <p><b><u>HINGES, BOLTS, ETC</u></b></p> <p><u>Manufactured by Dormakaba or similar approved:</u></p>			
53	3 x 100mm Mild steel butterfly hinge	No	24
<p><b><u>LOCKS</u></b></p> <p><u>Keys</u></p> <p>Unless otherwise described locks shall have two keys each</p> <p><b><u>"EN-SUITE" LOCKS</u></b></p> <p>The following locks are to be suitable for master key operation</p> <p>The following locks are to be suitable for master and grand master key operation</p> <p><u>Manufactured by Dormakaba or similar approved:</u></p> <p><u>Locks installed in timber or aluminium doors:</u></p>			
54	"DMWC SS 008" Stainless steel bathroom deadlock size 38mm high x 76mm deep	No	8
<p><b><u>HANDLES</u></b></p> <p><u>Manufactured by Dormakaba or similar approved:</u></p>			
Carried Forward			R
<p>Section No. 9 Bill No. 1 1 x 6 Ablution Block (6 Toilets)</p>			

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Brought Forward			R
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
Signs are to comply with SANS 1186-1 to 5 and to be to the approval of the local authority. Signs are to have anodised aluminium frames			
Prices are to include for fixing by approved methods. The use of double sided tape will not be permitted. Surface mounted signs are to be concealed fixed and ceiling mounted signs are to be hung with 2mm diameter stainless steel cables			
Single sided ceiling mounted signs are to have 2mm satin chrome anodised aluminium back panels			
Samples, specifications, literature, etc of materials and fabricated articles the tenderer proposes to use shall be submitted with the tender			
A ten year guarantee on materials and workmanship shall be submitted by the successful tenderer			
References at the end of the item descriptions are to the relative items on drawings annexed to issued separately with these bills of quantities			
<u>Wall mounted photoluminescent statutory signs in 150 x 150mm modules</u>			
59	190 x 190 x 3mm Thick white perspex international FB2 sign plate with red fire extinguisher symbol plugged to brickwork	No	2
<b><u>SUNDRIES</u></b>			
<u>Manufactured by Dormakaba or similar approved:</u>			
<u>Door stops, coat hooks, etc.:</u>			
60	Stainless steel half moon door stop or similar approved, plugged and screwed to floor	No	8
<b><u>BATHROOM FITTINGS</u></b>			
Carried Forward			R
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Brought Forward			R
<u>Manufactured by dormakaba or similar approved</u>			
61	Chromium plated stainless steel polished brass, lockable toilet roll holder, plugged	No	6
62	Soap dispenser, plugged	No	2
63	Paper towel dispenser, plugged	No	2
<b><u>BILL NO 9</u></b>			
<b><u>METALWORK</u></b>			
<u>User note</u>			
<i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i>			
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<i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i>			
<u>Descriptions of bolts, anchors, etc</u>			
Descriptions of bolts shall be deemed to include nuts and washers			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
Carried Forward			R
Section No. 9 Bill No. 1 1 x 6 Ablution Block (6 Toilets)			

<b>Brought Forward</b>	R
Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described	
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres	
<u>Aluminium doors, windows, etc</u>	
Doors and windows shall comply with AAAMSA design criteria	
Glazing shall comply with SAGGA regulations. Glass shall be laminated performance glass as shown on the window schedules/drawings appended to these bills of quantities (as described in the headings to window descriptions). Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings	
Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed	
For purpose made windows and doors, refer to drawings annexed to issued separately with these bills of quantities	
The following certificates shall be provided prior to commencement of site work:	
1        A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product	
2        A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively	
<b>Carried Forward</b>	R
Section No. 9 Bill No. 1 1 x 6 Ablution Block (6 Toilets)	

Brought Forward				R
3	A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process			
4	A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked			
5	A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for			
a	period of not less than five years			
<b><u>STEEL GATES, SCREENS, ETC</u></b>				
<b><u>GALVANISED STEEL GATES, SCREENS, ETC</u></b>				
<u>Welded screens and gates to steel door frames</u>				
64	Single gate of 25 x 25 x 2.5mm square tubing sections mitre 45 degrees at corners before welding with (x2) horizontal midrail sections out of same sections with vertical styles out of 25 x 25 x 2.5mm mild steel tubing at equal centres with maximum of 100mm openings, including 3 pairs of 20mm diameter bullet-hinges, lockset 'solid blesbok) 460/313 four lever lockset with rebate set. size 914 x 2032mm high	No	2	
<b><u>PRESSED STEEL DOOR FRAMES</u></b>				
<b><u>GALVANISED PRESSED STEEL DOOR FRAMES</u></b>				
<u>1,6mm thick GMS (Coastal) or MS (Inland) pressed metal frame with double rebate complete with lugs and base ties as supplied by manufacturer.</u>				
65	Frame for door 877 x 2064mm high	No	8	
<b><u>STEEL WINDOWS, DOORS, ETC</u></b>				
Carried Forward				R
Section No. 9 Bill No. 1 1 x 6 Ablution Block (6 Toilets)				

<b>Brought Forward</b>			R
<b><u>GALVANISED STEEL WINDOWS, DOORS, ETC</u></b>			
<u>Standard school windows</u>			
66	Window type TS101, 530 x 654mm high	No	7
<b><u>STEEL WINDOW SUNDRIES</u></b>			
67	25 x 25 x 3mm Mild steel square tube beading mitred and welded to window or door framing on inside at junction with facings	m2	3
68	Extra for flat closed end	No	7.00
<b><u>BILL NO 10</u></b>			
<b><u>PLASTERING</u></b>			
<u>User note</u>			
<i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i>			
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<i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i>			
<i>The following preambles are to be included only when specifically required by the principal agent</i>			
<b>Carried Forward</b>			R
Section No. 9 Bill No. 1 1 x 6 Ablution Block (6 Toilets)			



<b>Brought Forward</b>	R
<p><b><u>GRANOLITHIC</u></b></p> <p><u>Method</u></p> <p>The method to be used shall be either the monolithic method or the bonded method</p> <p><u>Preparation</u></p> <p>For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic</p> <p><u>Mix</u></p> <p>Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic</p> <p><u>Panels</u></p> <p>Granolithic shall be laid in panels not exceeding 14m<sup>2</sup> for monolithic finishes, not exceeding 9,5m<sup>2</sup> for bonded finishes and not exceeding 6m<sup>2</sup> for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width</p> <p>Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints</p>	
<b>Carried Forward</b>	R
<p>Section No. 9</p> <p>Bill No. 1</p> <p>1 x 6 Ablution Block (6 Toilets)</p>	

<b>Brought Forward</b>	<b>R</b>
<p><u>Laying</u></p> <p>Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels</p> <p>Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be throughly compacted and lightly wood floated to the required levels</p> <p>After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated</p> <p><u>Curing, seasoning and protection</u></p> <p>Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying</p> <p><u>Colour</u></p> <p>Coloured granolithic shall be tinted with an approved colouring pigment mixed into the granolithic in the proportion of 5 kg pigment per pocket of cement, of uniform appearance and consistent colour throughout</p> <p><b><u>SCREEDS</u></b></p> <p><u>Screeds wood floated, on concrete</u></p> <p><u>Screeds steel trowelled, on concrete</u></p> <p><b><u>CEMENT RENDER</u></b></p> <p><u>User note</u></p> <p><i>Cement render is a suitable finish to floors of store rooms etc where granolithic is not specifically required</i></p> <p><u>Untinted 1:3 cement render steel trowelled, on concrete</u></p> <p><b><u>GRANOLITHIC</u></b></p>	
<b>Carried Forward</b>	<b>R</b>
<p>Section No. 9</p> <p>Bill No. 1</p> <p>1 x 6 Ablution Block (6 Toilets)</p>	

Brought Forward			R
	<u>Untinted granolithic, on concrete</u>		
69	20mm Thick on floors and landings	m2	56
<b><u>INTERNAL PLASTER</u></b>			
	<u>Cement plaster on brickwork:</u>		
	<u>Cement plaster wood floated for tiles, on brickwork</u>		
70	On walls	m2	160
71	On narrow widths.	m2	12
<b><u>BILL NO 11</u></b>			
<b><u>TILING</u></b>			
<u>User note</u>			
<i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i>			
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<i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i>			
Carried Forward			R
Section No. 9			
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	Brought Forward			R
	<u>Patterns</u>			
	Unless otherwise described, tiles shall be laid with continuous joints in both directions			
	<u>Fixing</u>			
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
	Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat			
	Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles			
	<b><u>WALL TILING</u></b>			
	<u>200 x 200 x 5mm White matt glazed ceramic tiles fixed with adhesive to plaster (plaster elsewhere)</u>			
72	On walls in isolated panels, splashbacks, etc not exceeding 1m <sup>2</sup>	m2	8	
	<b><u>FLOOR TILING</u></b>			
	<u>User note</u>			
	<i>Waterproof grout is normally used in showers, on balconies, etc. Epoxy grout is used in kitchens, butcheries, etc, where floors are frequently washed with detergents</i>			
	<b><u>600 x 600 mm full bodied non slip floor porcelain tiles with adhesive to power floated concrete and flush pointed with grout. Tiles are to be laid in accordance with architects design layout. adhesive by specialist supplier and to architect's approval. Tile grout to be approved by architect prior to fixing</u></b>			
73	On floors	m2	56.00	
	<b>Carried Forward</b>			R
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	<b>Brought Forward</b>		R
74	To Skirtings 100mm high	m	57.00
	<b><u>BILL NO 12</u></b>		
	<b><u>PLUMBING AND DRAINAGE</u></b> <b><u>(PROVISIONAL)</u></b>		
	<u>User note</u>		
	<i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i>		
	<i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i>		
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	<i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i>		
	<u>Wire gratings</u>		
	Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings		
	<u>Stormwater channels</u>		
	Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site		
	<b>Carried Forward</b>		R
	Section No. 9		
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<b>Brought Forward</b>	<b>R</b>
<p><u>French drains</u></p> <p>Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site</p> <p><u>Septic tanks</u></p> <p>Descriptions of proprietary type septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions and disposal of surplus material on site</p> <p><u>Stainless steel basins, sinks, wash troughs, urinals, etc</u></p> <p>Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)</p> <p>Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)</p> <p>Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)</p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><u>Sealing of edges</u></p> <p>Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone</p> <p><u>PVC-U pipes and fittings</u></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings</p>	
<b>Carried Forward</b>	<b>R</b>
<p>Section No. 9</p> <p>Bill No. 1</p> <p>1 x 6 Ablution Block (6 Toilets)</p>	

<b>Brought Forward</b>	R
<p><u>PVC-U pressure pipes and fittings</u></p> <p>Pipes of 50mm diameter and smaller shall be plain ended with solvent welded PVC-U loose sockets and fittings</p> <p>Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be PVC-U and all other fittings shall be cast iron, all with similar push-in type joints</p> <p><u>High density polyethylene (HDPE) pipes and fittings</u></p> <p>Pipes shall be type IV and of the class specified with compression fittings</p> <p><u>Polypropylene pipes</u></p> <p>Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings</p> <p>Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p><u>Copper pipes</u></p> <p>Pipes shall be hard drawn and half-hard pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings. Capillary solder fittings shall comply with ISO 2016</p> <p>Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition</p>	
<b>Carried Forward</b>	R
<p>Section No. 9</p> <p>Bill No. 1</p> <p>1 x 6 Ablution Block (6 Toilets)</p>	

<b>Brought Forward</b>	R
<p><u>Reducing fittings</u></p> <p>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</p> <p><u>Fixing of pipes</u></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level</p> <p><u>Paper wrapping to pipes</u></p> <p>Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings</p> <p><u>Disinfection of water pipework</u></p> <p>Water pipework is to be disinfected at completion</p> <p><u>Petrolatum anti-corrosion tape</u></p> <p>Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with overlaps</p> <p>Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions</p> <p>Prices for wrapping of pipes shall include for all work as described to couplings in the length</p> <p><u>Laying, backfilling, bedding, etc of pipes</u></p> <p>Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled</p> <p>Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001</p>	
<b>Carried Forward</b>	R
<p>Section No. 9</p> <p>Bill No. 1</p> <p>1 x 6 Ablution Block (6 Toilets)</p>	



Brought Forward			R
<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, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site			
Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)			
Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)			
<u>As-built drawings</u>			
Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)			
<b><u>RAINWATER DISPOSAL</u></b>			
<u>0.6mm Galvanised sheet steel gutters and rainwater pipes</u>			
75	100 x 75mm Roof gutters with beaded front edge	m	32
76	Extra over gutter for outlet for 100 x 75mm rainwater pipe	No	2
77	Extra over rainwater pipe for shoe	No	2
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**Independent Development Trust**  
**Limpopo Department of Education**

	<b>Brought Forward</b>			<b>R</b>	
78	100 x 100mm Rainwater pipes	m	6		
79	Extra over eaves gutter for angle.	No	2		
	<b><u>SANITARY FITTINGS</u></b>				
	<u>'Vaal Sanitary ware' or similar approved</u>				
80	Quartz Trough Vanity size 600mm wide x 335 High	No	2		
81	'Hibiscus' white colour vitreous china close-coupled washdown suite (product code 772602) comprising 90° outlet open rim pan (product code 772610) and matching 9 litre cistern (product code 710531), including lid, fitments, etc., bedded in 4:1 cement mortar on concrete floors.	No	6		
82	Flatback Urinal with top inlet wall hung urinal, supplied with 38mm CP domical grating, top inlet spreader and 2 hanger brackets.	No	2		
	<b><u>WASTE UNIONS ETC</u></b>				
	<u>Manufactured by dormakaba or similar approved</u>				
83	32mm chromium plated basin waste union	No	5		
	<b><u>TRAPS ETC</u></b>				
84	32 x 50mm Deep seal "P" or "S" trap	No	5		
	<b><u>TAPS, VALVES, ETC</u></b>				
85	15mm chromium plated sink mixer	No	6		
	<b><u>SANITARY PLUMBING</u></b>				
	<u>PVC-U soil and vent pipes</u>				
86	50mm Pipes	m	28		
87	110mm pipes	m	45		
	<u>Extra over PVC-U soil and vent pipes for fittings</u>				
88	110mm Pan connector	No	6		
	<b>Carried Forward</b>			<b>R</b>	
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	<b>Brought Forward</b>			<b>R</b>	
89	110mm Bend	No	6		
90	110mm Junction	No	6		
91	110mm Access junction	No	6		
92	110mm Access bend	No	6		
93	110mm Access reducing junction	No	6		
94	50mm "GI Two-way" vent valve	No	6		
	<b><u>WATER SUPPLIES</u></b>				
	<u>Galvanized steel pipes:</u>				
95	32mm Pipes laid in trenches not exceeding 1m deep.	m	40		
	<u>Class 0 copper pipes</u>				
96	15mm Pipes chased into brickwork	m	45		
97	22mm Pipes chased into brickwork	m	45		
	<u>Extra over class 0 copper pipes for capillary fittings</u>				
98	15mm Fittings	No	7		
99	22mm Fittings	No	7		
	<u>Copper overflow and service pipes</u>				
100	15mm Service pipe 350mm girth	No	55		
	<b><u>TESTING</u></b>				
101	Provide all necessary apparatus, water, etc for and test the whole of the Sanitary Plumbing and Water Supply installation to the satisfaction of the Project Manager, replace any defective work free of charge and leave perfect		Item		
	<b>Carried Forward</b>			<b>R</b>	
	Section No. 9				
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	Brought Forward		R
	<b><u>FIRE APPLIANCES ETC</u></b>		
102	SABS approved Chubb (08407W) or similar approved hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket as per Eng. detail & specifications	No	1
103	9kg Chubb (04504W) Dry Chemical (DCP) Fire Extinguisher or similar approved, fixed onto wall	No	2
	<b><u>BILL NO 13</u></b>		
	<b><u>GLAZING</u></b>		
	<u>User note</u>		
	<i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i>		
	<i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i>		
	<i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i>		
	<i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i>		
	<u>Float glass</u>		
	The term "float glass" is used for monolithic annealed glass		
	<b>Carried Forward</b>		R
	Section No. 9 Bill No. 1 1 x 6 Ablution Block (6 Toilets)		

[illegible]

Brought Forward	R
<p><u>User note</u></p> <p><i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i></p> <p><i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i></p> <p><i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i></p> <p><i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i></p> <p><i>Attention is drawn to the measurement rules in the measuring system regarding paint colours which read as follows:</i></p> <p>"4.     <i>Paintwork shall be classified in the different colour groups "White", "Pastel", "Deep" and "Transparent" (in accordance with the Natural Colour System (NCS) adopted by the SA National Standards)"</i></p> <p style="padding-left: 40px;"><i>and</i></p> <p>"5.     <i>Paintwork in one colour group may be given as extra over paintwork in another colour group"</i></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>PREPARATORY WORK TO EXISTING WORK</u></b></p>	
Carried Forward	R
<p>Section No. 9</p> <p>Bill No. 1</p> <p>1 x 6 Ablution Block (6 Toilets)</p>	

<b>Brought Forward</b>	R
<p><u>Previously painted plastered surfaces</u></p> <p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</p> <p><u>Previously painted metal surfaces</u></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p><u>Previously painted wood surfaces</u></p> <p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</p> <p><b><u>PAINT SPECIFICATIONS</u></b></p> <p>All painting shall be done in accordance with specifications unless otherwise described</p> <p><b><u>COLOURS</u></b></p> <p><u>User note</u></p> <p><i>In the event of the colour scheme for the project not being available when required for the preparation of quantities, it is recommended that either all paintwork be described as being in the "White" colour group <b>or</b> that ceilings be described as being in the "White" colour group and the balance being in the "Pastel" colour group and that provision be made for other colour groups by way of "extra over" items marked "Provisional" as provided for in the measuring system (See measurement rule No. 5 under item 2: Colours). The following items are examples of such "extra over" items:</i></p> <p><i>"Extra over for paintwork on components ceilings in the "White" colour group for paintwork in the "Pastel" colour group (Provisional) m²"</i></p>	
<b>Carried Forward</b>	R
<p>Section No. 9 Bill No. 1 1 x 6 Ablution Block (6 Toilets)</p>	

Brought Forward			R
<p><i>"Extra over for paintwork on components in the "Pastel" colour group for paintwork in the "Deep" colour group (Provisional) m²"</i></p> <p>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</p> <p><b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b></p> <p><b><u>ON INTERNAL TEXTURED PLASTER SURFACES</u></b></p> <p><u>One coat alkali resistant primer and two coats PVA emulsion paint for interior use</u></p>			
106	Walls	m2	160
<p><b><u>ON FIBRE-CEMENT BOARD SURFACES</u></b></p> <p><u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u></p>			
107	Ceilings and cornices, including priming metal cover strips and nailheads ("White" colour group)	m2	38
108	Fascias and barge boards not exceeding 300mm girth, including priming metal jointing strips	m	29
<p><b><u>ON METAL SURFACES</u></b></p> <p><u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel</u></p>			
109	Steel gates, burglars and frames	m2	3
110	Door frames	m2	5
111	Eaves gutters not exceeding 300mm girth	m	32
112	Rainwater downpipes not exceeding 300mm girth	m	6
Carried Forward			R
<p>Section No. 9 Bill No. 1 1 x 6 Ablution Block (6 Toilets)</p>			



Brought Forward			R
<b><u>ON WOOD SURFACES</u></b>			
<u>Three coats superior quality clear gloss varnish</u>			
113	Doors	m2	26
114	Roof timbers at eaves and verges	m2	8
Carried to Final Summary			R
Section No. 9			
Bill No. 1			
1 x 6 Ablution Block (6 Toilets)			

Item No	Quantity	Rate	Amount
<u>5 × 4 Classroom Blocks (20 Classrooms)</u>			
<u>BILL NO 1: EARTHWORKS (PROVISIONAL)</u>			
<u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u>			
<u>Foundation brickwork and concrete walls have been measured to top of unfinished floor level</u>			
<u>EARTHWORKS</u>			
<u>NOTE : All excavations are measured as being in "earth" and/or filling compacted to 95% modified AASHTO density. Descriptions of excavations shall be deemed to include for setting aside surplus excavated material in spoil heaps for use as filling, or for depositing within 150m of the perimeter of the excavations and spreading and roughly levelling as directed, as well as for increase in bulk and multiple handling of excavated material caused by the Contractor's method of operation. 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 and for bulking</u>			
<u>Working space for formwork to sides of all concrete, except columns, shall be measured only where the concrete face is less than 750mm from the face of the measured excavations. Working space for formwork to sides of columns shall be measured for the width of the column face only where both the top of the column base is more than 1,5m below the commencing level of the excavations and the column face is less than 500mm from the face of the measured excavations</u>			
Carried Forward			R
Section No. 10			
Bill No. 1			
4 x 4 Classroom Blocks (16 Classrooms)			

Brought Forward			R
<u>No claim shall be considered for any working space for formwork to concrete other than as above described or for working space beyond the sides of trench excavations for the building of brick or block walls. Descriptions of excavations for working space shall be deemed to include for any additional risk of collapse so incurred and for the returning and compacting of the excavated material as described</u>			
<u>Excavations</u>			
<u>Excavate in earth not exceeding 2m deep below natural, elevated or reduced ground level for</u>			
1	Reducing levels	m3	208.00
2	Trenches	m3	464.00
<u>Carting away of excavated material</u>			
3	Extra over all excavations for carting away surplus material from excavations and/or from stockpiles on site to a dumping site to be located by the Contractor	m3	120.00
<u>Extra over excavations in earth for excavation in</u>			
4	Extra over excavations in earth for trenches and holes for excavations in soft rock	m3	48.00
5	Extra over excavations in earth for trenches and holes for excavations in hard rock	m3	24.00
<u>Risk of collapse of excavations</u>			
6	Risk of collapse of sides of excavations for trenches and holes from natural, elevated or reduced ground level to not exceeding 1,5m deep	m2	1,184.00
<u>Keeping excavations free of water</u>			
7	Allow for keeping excavations free of all water other than subterranean water	Item	
Carried Forward			R
Section No. 10			
Bill No. 1			
4 x 4 Classroom Blocks (16 Classrooms)			

**Ndzalama Primary School Provisional Bill of Quantities**  
**Independent Development Trust**  
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	<b>Brought Forward</b>			<b>R</b>
	<b><u>Filling, etc.</u></b>			
8	Backfilling from the excavations to trenches and holes compacted to 90% modified AASHTO density	m3	248.00	
9	Imported earth filling supplied by the Contractor and brought onto site, under solid floors, steps, paving's, etc. compacted to 93% modified AASHTO density	m3	248.00	
	<b><u>Tests</u></b>			
10	Tests to determine the degree of compaction, etc. of ground or filling	No	16.00	
	<b><u>Protection against termites</u></b>			
11	Poisoning surface of ground in bottoms of trenches, bases, etc.	m2	1,624.00	
12	Poisoning surface of ground or filling under floors, steps, etc. including raking out 75mm deep V-shaped channels against the walls, etc. treating with poison solution, backfilling and ramming	m2	1,948.00	
	<b><u>BILL NO 2: CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>CONCRETE</u></b>			
	<b><u>Concrete test cubes</u></b>			
13	Prepare set of three 150 x 150 x 150mm concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for.	No	16.00	
	<b><u>REINFORCED CONCRETE</u></b>			
	<b>Carried Forward</b>			<b>R</b>
Section No. 10 Bill No. 1 4 x 4 Classroom Blocks (16 Classrooms)				

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	Brought Forward			R
	<b><u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 20MPa at 28 days</u></b>			
14	In aprons slabs	m3	60.00	
15	In surface beds cast on waterproofing	m3	208.00	
16	In stairs	m3	20.00	
17	In ramps	m3	68	
	<b><u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25MPa at 28 days</u></b>			
18	In footings to walls cast against excavated surfaces, stepped and levelled	m3	120.00	
	<b><u>Sundries</u></b>			
19	Finish raking top surface of concrete slabs, etc. to a smooth and even wood floated surface including additional dry sand/cement mixture added as necessary whilst the concrete is still wet	m2	1,380.00	
	<b><u>FORMWORK</u></b>			
	<b><u>Rough Formwork</u></b>			
20	Edges, risers, ends and reveals not exceeding 300mm high	m	588	
	<b><u>Movement joints</u></b>			
21	Movement joint not exceeding 300mm high formed of 12mm bitumen impregnated softboard placed vertically in position between concrete surface bed and brick walls, etc. including raking out top section 10mm deep and filling with bituminous compound	m	840.00	
	<b><u>Expansion joints with 10mm softboard between vertical concrete surfaces, including necessary formwork</u></b>			
22	Not exceeding 300mm high to edges of surface beds	m	44	
	<b>Carried Forward</b>			R
	Section No. 10			
	Bill No. 1			
	4 x 4 Classroom Blocks (16 Classrooms)			

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Brought Forward			R
<b><u>REINFORCEMENT</u></b>			
<b><u>High tensile steel reinforcement to structural concrete work</u></b>			
23	Diameter bars	t	4.772
<b><u>Mild tensile steel reinforcement to structural concrete work</u></b>			
24	Diameter bars	t	1.20
<b><u>Fabric reinforcement</u></b>			
25	Type 395 fabric reinforcement in concrete surface beds, etc.	m2	1,380.00
<b><u>BILL NO 3: MASONRY</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
<b><u>BRICKWORK IN FOUNDATION</u></b>			
26	One brick wall	m2	444
<b><u>BRICKWORK IN BURNT CLAY BRICKS IN (5:1) CEMENT MORTAR</u></b>			
27	Half brick wall in beamfilling	m2	380.00
28	One brick wall	m2	1,280.00
29	Piers	m3	12
<b><u>BRICK REINFORCEMENT</u></b>			
30	Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	1,120.00
Carried Forward			R
Section No. 10 Bill No. 1 4 x 4 Classroom Blocks (16 Classrooms)			

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	Brought Forward			R
31	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	3,780.00	
	<b><u>TEMPORARY TURNING PIECES, ETC.</u></b>			
32	To flat brick lintels not exceeding 300mm wide	m	112.00	
	<b><u>SUNDRIES</u></b>			
33	40 x 1,6mm Galvanised hoop iron roof tie with one end built six courses deep into top of brickwork and other end wrapped around and nailed to trusses	No	704.00	
	<b><u>AIR BRICKS</u></b>			
34	229 x 76mm Terra-cotta vermin proof air brick with gauze backing and building into opening in brickwork in cement mortar	No	64.00	
	<b><u>FACED BRICKWORK</u></b>			
	<b><u>Internal facings in approved face bricks (FBS) with a PC Amount of R4,500.00 per thousand bricks delivered to site (excluding VAT) pointed with square recessed horizontal and vertical joints</u></b>			
	<b><u>Extra over brickwork for face brickwork in foundation</u></b>			
35	Extra over ordinary brickwork for facing and pointing in stretcher bond	m2	320.00	
	<b><u>External facings in approved face bricks (FBS) with a PC Amount of R4,500.00 per thousand bricks delivered to site (excluding VAT) pointed with square recessed horizontal and vertical joints</u></b>			
36	Extra over ordinary brickwork for facing and pointing in stretcher bond	m2	964.00	
37	Face brick-on-edge flat lintel course in cement mortar 220mm wide on soffit and pointing on 110mm wide projecting soffit and one side	m	112.00	
	<b>Carried Forward</b>			R
Section No. 10 Bill No. 1 4 x 4 Classroom Blocks (16 Classrooms)				

	Brought Forward			R
38	Cut face brick-on-edge external window cill, 180mm wide, set sloping and slightly projecting in cement mortar and pointed on top, front edge and projecting soffit including all necessary fair raking cutting to facings under and fair and fitted ends	m	96.00	
	<b><u>Sundries</u></b>			
39	Construct a sample panel 2m long x 1,5m high of one brick wall in cement mortar faced and pointed on both sides in stretcher bond and with brick-on-edge coping to top including pointing to top and both sides and with and including necessary excavations for and including 15MPa/38mm mass concrete strip footing in a position as directed by the Representative/Agent and including demolishing and removal after completion of all brickwork (Provisional)	No	8.00	
	<b><u>BILL NO 4: WATERPROOFING</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>DAMP-PROOFING TO WALLS</u></b>			
40	375 Micron embossed black polyethylene damp-proof course to walls, cills, etc. (measured net)	m2	176.00	
	<b><u>DAMP-PROOFING UNDER FLOORS, ETC.</u></b>			
	<b><u>Colour coded polyethylene sheeting complying with SABS 952, Type C in widest practicable widths with all joints lapped and sealed in accordance with the manufacturer's instructions</u></b>			
41	250 Micron green medium density damp-proof membrane laid loose on top of sand bed (elsewhere) under solid floors with pressure sensitive tape jointing	m2	1,380.00	
	<b><u>BILL NO 5: ROOF COVERINGS</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	Carried Forward			R
	Section No. 10 Bill No. 1 4 x 4 Classroom Blocks (16 Classrooms)			



Brought Forward			R
<p><u>Supplementary preambles in connection with fixing of sheeting and accessories and laps are to be inserted when the Model Preambles for Trades (or other preambles not covering the fixing of sheeting and accessories and laps) are used</u></p> <p><u>When the pitch of troughed roof covering is less than 5 degrees or if dustproofing is required then the description of roof coverings "with side laps sealed" is to be used</u></p> <p><u>Where roof coverings are fixed on top of rigid board insulation to purlins etc descriptions of roof coverings are to include therefore</u></p> <p><u>Global Roofing Solutions 406mm cover Brownbuilt™ profile roll-formed in continuous lengths from 0.58mm thick Galvanised steel, Z200 spelter ISQ550 Chromadek® Traffic Green finish top coat and Pebble Grey backing coat roof sheeting, fixed to timber intermediate purlins at MAX 1200mm centres and eaves and ridge purlins at MAX 1200mm centres using Duplex clips fixed with 10No.11 x 45mm long self drilling wafer head PH2 screws, type 17 drill point fasteners, all in accordance with the manufacturer's specifications by a GRS approved contractor.</u></p>			
Roof sheeting with pitch not exceeding 9° fixed to timber purlins (elsewhere)	m2	2,100.00	
<b><u>'Klip-Lok 406' Flashings:</u></b>			
Ridge capping 550mm girth, three times bent along girth and notched on site to suit roof profile	m	136.00	
Hip capping 550mm girth, three times bent along girth and notched on site to suit roof profile.	m	104.00	
<b><u>ROOF AND WALL INSULATION</u></b>			
Carried Forward			R
<p>Section No. 10          Bill No. 1          4 x 4 Classroom Blocks (16 Classrooms)</p>			

	Brought Forward			R
	<b><u>Cellulose Ceiling or similar approved (Architect to advise)</u></b>			
45	100mm non-combustible lightweight fiberglass insulation blanket fitted between tie beams and laid loose on top of brandering undelay dressed over bottom purlin into gutter	m2	2,100	
	<b><u>ROOF VENTILATORS</u></b>			
	<b><u>Galvanized steel louvred ventilators:</u></b>			
46	Triangular shaped steel fixed louvred ventilator size 2100mm wide at base x 450mm high fixed into timber roof trusses.	No	8.00	
	<b><u>BILL NO 6: CARPENTRY AND JOINERY</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>ROOFS, ETC.</u></b>			
	<b><u>Plate nailed timber roof truss construction</u></b>			
47	Roof truss construction for 20 degrees double pitched roof, including trusses, jack rafters, permanent bracing and 50 x 75mm purlins for 0.6mm chromadek steel sheet roof covering (measured elsewhere) including design and Engineers Certificate of Compliance. Building size: 35.64 x 11.74m	No	4.00	
	<b><u>WOOD PRESERVATIVE</u></b>			
48	Two coats wood preservative applied hot on wrought exposed roof timbers	m2	120.00	
	<b><u>FASCIAS AND BARGEBOARDS</u></b>			
	<b><u>Tempered fibre-cement</u></b>			
49	15 x 225mm Fascia board countersunk screwed to roof timbers (elsewhere) with two brass screws at maximum 1200mm centres and jointed with and including standard aluminium half round cover strips at all joints	m	384.00	
	<b>Carried Forward</b>			R
	Section No. 10 Bill No. 1 4 x 4 Classroom Blocks (16 Classrooms)			

	<b>Brought Forward</b>		R	
	<b><u>DOORS</u></b>			
	<b><u>NOTE</u></b> <b><u>: All framed and ledged batten doors and combination doors, where battens are utilized, shall only be of construction acceptable to the Department, i.e. mortice and tenon where the tenon is exposed on the outside edges of styles and where the tenon is wedged to form a dovetailed shape</u></b>			
	<u>Solid meranti framed, ledged and braced batten doors with masonite veneer to internal face suitable for painting (painting elsewhere measured)</u>			
50	40mm Purpose made Solid Framed and Braced Door 914 x 2032mm high	No	16	
	<b><u>Nu-tec Board</u></b>			
51	20mm thick nu-tec board as internal window cill	m	96	
	<b><u>JOINERY FITTINGS</u></b>			
	<b><u>THE FOLLOWING IN PINNING BOARDS</u></b>			
	<b><u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</u></b>			
	<b><u>Pinning boards</u></b>			
52	2400mm x 1200mm high Felt pinning board. Colour: Stone. Deluxe anodised aluminium frame. Rounded plastic corners. Can be mounted horizontally or vertically. Including mounting brackets, screws and mounting Instructions	No	16.00	
	<b><u>Interactive Whiteboard</u></b>			
53	Non-magnetic interactive whiteboard, 1 x Centre panel, 2 x Double sided panels on hinges which open and close Side Panels = 1200mm x 900mm - Centre Panel = 1.8m including DLP XGA 3600 ansi long throw projector, ceiling mount bracket, all cabling and other accessories, etc	No	16.00	
	<b><u>BILL NO 7: CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b>			
	<b>Carried Forward</b>		R	
	Section No. 10 Bill No. 1 4 x 4 Classroom Blocks (16 Classrooms)			

Brought Forward			R
<b>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</b>			
<b><u>TIMBER</u> : All softwood to be South African Pine</b>			
<b><u>CEILINGS</u></b>			
<b><u>Mineral wool insulation</u></b>			
54	50mm Insulation closely fitted and laid on top of brandering between roof timbers etc.	m2	1,232.00
<b><u>6mm "Nu-tec" pressed fibre-cement boards with H- type pressed steel jointing strips</u></b>			
55	Ceilings including H-type pressed steel jointing strips and 38 x 38mm sawn softwood brandering at 400mm centres in one direction and around edges where required for fixing cornices, securely spiked to roof timbers	m2	1,232.00
56	Extra over fibre-cement ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	16.00
<b><u>"Rhino" Gypsum plasterboard cornices</u></b>			
57	75mm Coved cornices	m	792.00
<b><u>BILL NO 8: IRONMONGERY</u></b>			
<b><u>NOTE</u> : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</b>			
<b><u>Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish</u></b>			
<b><u>THE FOLLOWING IRONMONGERY FIXED TO DOORS, ETC.</u></b>			
<b><u>HINGES</u></b>			
Carried Forward			R
Section No. 10 Bill No. 1 4 x 4 Classroom Blocks (16 Classrooms)			

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Brought Forward			R
<b><u>"Union" or similar approved</u></b>			
58	100mm mild steel butterfly hinges	No	48.00
59	20mm diameter bullet-hinges	Pairs	16.0
<b><u>LOCKS</u></b>			
60	Solid Blesbok / Tarpon. 460/313 Four Lever Lockset	No	16.00
<b><u>SUNDRIES</u></b>			
61	Stainless steel half moon door stop or similar approved, plugged and screwed to floor	No	16
<b><u>NUMERAL AND NAME PLATES</u></b>			
<b><u>Clear perspex numeral plate reverse engraved and enamelled in numerals and/or letters, twice countersunk holed for and plugged to brickwork with chromium plated dome-headed screws</u></b>			
62	3mm Thick x 32mm wide plate with two numerals and/or letters	No	16.00
<b><u>Indicator plates countersunk holed for and screwed to door or brickwork with chromium plated dome-headed screws</u></b>			
63	190 x 190 x 3mm Thick white perspex international FB2 sign plate with red fire extinguisher symbol plugged to brickwork	No	16.00
<b><u>Indicator plates countersunk holed for and screwed to door or brickwork with chromium plated dome-headed screws</u></b>			
<b><u>BILL NO 9: METALWORK</u></b>			
<b><u>NOTE</u></b>			
<b><u>: Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
Carried Forward			R
Section No. 10 Bill No. 1 4 x 4 Classroom Blocks (16 Classrooms)			

Brought Forward			R
<b><u>EXPANSION BOLTS : Expansion bolts shall be fixed in accordance with the manufacturer's instructions and prices are to include for drilling mortice for sockets in brickwork or concrete for same</u></b>			
64	50 x 50 x 2.5mm rectangular tubing sections mitre 45 degrees at corners before welded secured against wall with 50 x 50 x 5mm mild steel brackets welded to frame and bolted to wall with 10mm(M10) rawlbolts. Size 877 x 2 125m High (Code: MS 02)	No	16.00
<b><u>The following in walkway roof support steelwork</u></b>			
65	100 x 100 x 5mm Square hollow section posts	m	132.00
<b><u>DOOR FRAMES, DOORS, WINDOWS, ETC.</u></b>			
<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
<b><u>1,2mm Double rebated frames suitable for one brick walls</u></b>			
66	Door frame for door size 978 x 2,064m	No	16.00
<b><u>STEEL WINDOWS</u></b>			
<b><u>NOTE : Windows shall be provided with chromium plated brass fittings. All horizontal pivot windows to be fitted with cup keeps on pivot for maximum opening of 25°</u></b>			
<b><u>The given sizes are overall, approximate and in the order of width and height. The detailed drawings and building must be carefully checked for exact sizes before placing orders. Any errors in this respect will be at the Contractor's expense and no claims for any extras in this regard will be entertained</u></b>			
<b><u>Where so described windows shall be provided with burglar bars to opening and fixed sections, consisting of 12 x 12mm mild steel square sections to standard NBP2 pattern welded at intersections and to window frame. Bars in front of fixed sections to be bent 75mm away from the glass surface</u></b>			
Carried Forward			R
Section No. 10 Bill No. 1 4 x 4 Classroom Blocks (16 Classrooms)			

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	Brought Forward			R
	<b><u>600 x 600 mm full bodied non slip floor porcelain tiles with adhesive to power floated concrete and flush pointed with grout. Tiles are to be laid in accordance with architects design layout. adhesive by specialist supplier and to architect's approval. Tile grout to be approved by architect prior to fixing</u></b>			
73	On floors	m2	976.00	
74	To Skirtings 100mm high	m	516.00	
	<b><u>BILL NO 12: PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>RAINWATER DISPOSAL</u></b>			
	<b><u>Ogee profile aluminium finish to match roof sheeting:</u></b>			
75	100 x 75mm Eaves gutters with beaded front edge.	m	384.00	
76	Extra over eaves gutter for angle.	No	40.00	
77	Extra over eaves gutter for outlet for 100 x 75mm pipe.	No	40.00	
78	100 x 75mm Rainwater pipe.	m	108.00	
79	Extra over rainwater pipe for shoe.	No	40.00	
80	Extra over rainwater pipe for eaves or plinth offset 600mm projection.	No	40.00	
	<b><u>Fire appliances, etc.</u></b>			
81	9Kg DCP dry powder portable fire extinguisher on and including wrought Meranti backboard size 520 x 100 x 22mm thick plugged and screwed to wall and finished with two coats of polyurethane varnish, including 120 x 20 x 2mm mild steel strip bent to form hook	No	16.00	
82	"Fire Fyter" Model 2000 or similar approved, fire hose reel with 30m long hose including jointing to steel supply pipe and fixing to wall	No	4.00	
	Carried Forward			R
	Section No. 10			
	Bill No. 1			
	4 x 4 Classroom Blocks (16 Classrooms)			



Brought Forward			R
<b><u>BILL NO 13: GLAZING</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
<b><u>Glass in steel fixed with putty</u></b>			
83	5mm Clear Float glass fixed with glazing putty exceeding fixed with 0,5m <sup>2</sup> and not exceeding 2m <sup>2</sup>	m2	240.00
<b><u>BILL NO 14: PAINTWORK</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
<b><u>PAINT ON PLASTER, ETC.</u></b>			
<b><u>Prepare and apply one merit universal undercoat and two coats "Polvin" super acrylic PVA paint</u></b>			
84	On walls	m2	824.00
<b><u>PAINT ON FIBRE CEMENT</u></b>			
<b><u>Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use</u></b>			
85	On external fibre-cement fascias and barge boards including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	180.00
<b><u>PAINT ON GYPSUM SURFACES</u></b>			
<b><u>Prepare, stop and apply two full coats semi-gloss PVA co-polymer paint to comply with SABS Specification No. 643</u></b>			
86	On internal plasterboard ceilings including priming steel joints and nail heads with one coat zinc phosphate alkyd resin primer	m2	1,232.00
<b><u>PAINT ON METAL</u></b>			
Carried Forward			R
Section No. 10 Bill No. 1 4 x 4 Classroom Blocks (16 Classrooms)			

**Independent Development Trust**  
**Limpopo Department of Education**

Brought Forward			R
	<u>Prepare, touch up factory primer and apply one coat universal undercoat and two full coats high gloss enamel paint</u>		
87	Doors with burglar bars	m2	33
88	Window burglars and frames	m2	240
89	(Provisional)		
	Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	220
	<u>Prepare and apply one coat universal undercoat, two coats gloss enamel paint.</u>		
90	On pressed steel door frames	m2	88.00
	<u>PAINT ON WOOD</u>		
	<u>Prepare and apply one coat wood primer</u>		
	<u>Prepare and apply one coat hardboard primer, one coat universal undercoat and two full coats high gloss enamel paint</u>		
91	On doors	m2	60.00
Carried to Final Summary			R
Section No. 10			
Bill No. 1			
4 x 4 Classroom Blocks (16 Classrooms)			

Item No		Quantity	Rate	Amount
	<u>Science Laboratory</u>			
	<u>BILL No 1: EARTHWORKS (PROVISIONAL)</u>			
	<u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u>			
	<u>Foundation brickwork and concrete walls have been measured to top of unfinished floor level</u>			
	<u>EARTHWORKS</u>			
	<u>NOTE : All excavations are measured as being in "earth" and/or filling compacted to 95% modified AASHTO density. Descriptions of excavations shall be deemed to include for setting aside surplus excavated material in spoil heaps for use as filling, or for depositing within 150m of the perimeter of the excavations and spreading and roughly levelling as directed, as well as for increase in bulk and multiple handling of excavated material caused by the Contractor's method of operation. 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 and for bulking</u>			
	<u>Working space for formwork to sides of all concrete, except columns, shall be measured only where the concrete face is less than 750mm from the face of the measured excavations. Working space for formwork to sides of columns shall be measured for the width of the column face only where both the top of the column base is more than 1,5m below the commencing level of the excavations and the column face is less than 500mm from the face of the measured excavations</u>			
	<b>Carried Forward</b>		R	
	Section No. 11 Bill No. 1 Science Laboratory			

Brought Forward			R
<u>No claim shall be considered for any working space for formwork to concrete other than as above described or for working space beyond the sides of trench excavations for the building of brick or block walls. Descriptions of excavations for working space shall be deemed to include for any additional risk of collapse so incurred and for the returning and compacting of the excavated material as described</u>			
<b><u>SITE CLEARANCE</u></b>			
<b><u>Site clearance</u></b>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	287.00
<b><u>Excavations</u></b>			
<b><u>Excavate in earth not exceeding 2m deep below natural, elevated or reduced ground level for</u></b>			
2	Reducing levels	m3	44.00
3	Trenches	m3	67.00
<u>Carting away of excavated material</u>			
4	Extra over all excavations for carting away surplus material from excavations and/or from stockpiles on site to a dumping site to be located by the Contractor	m3	33.00
<u>Extra over excavations in earth for excavation in</u>			
5	Extra over excavations in earth for trenches and holes for excavations in soft rock	m3	7.00
6	Extra over excavations in earth for trenches and holes for excavations in hard rock	m3	4.00
<u>Risk of collapse of excavations</u>			
7	Risk of collapse of sides of excavations for trenches and holes from natural, elevated or reduced ground level to not exceeding 1,5m deep	m2	166.00
Carried Forward			R
Section No. 11 Bill No. 1 Science Laboratory			

Ndzalama Primary School Provisional Bill of Quantities  
Independent Development Trust  
Limpopo Department of Education

Brought Forward			R
	<u>Keeping excavations free of water</u>		
8	Allow for keeping excavations free of all water other than subterranean water	Item	
	<u>Filling, etc.</u>		
9	Backfilling from the excavations to trenches and holes compacted to 90% modified AASHTO density	m3	35.00
10	Imported earth filling supplied by the Contractor and brought onto site, under solid floors, steps, paving's, etc. compacted to 90% modified AASHTO density	m3	44.00
	<u>Tests</u>		
11	Tests to determine the degree of compaction, etc. of ground or filling	No	2.00
	<u>Protection against termites</u>		
12	Poisoning surface of ground in bottoms of trenches, bases, etc.	m2	233.00
13	Poisoning surface of ground or filling under floors, steps, etc. including raking out 75mm deep V-shaped channels against the walls, etc. treating with poison solution, backfilling and ramming	m2	212.00
	<u>BILL No 2: CONCRETE, FORMWORK AND REINFORCEMENT</u>		
	<u>Concrete test cubes</u>		
14	Prepare set of three 150 x 150 x 150mm concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional)	No	4.00
	<u>REINFORCED CONCRETE</u>		
	<u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 20MPa at 28 days</u>		
15	In aprons slabs	m3	9.00
	<b>Carried Forward</b>		R
Section No. 11 Bill No. 1 Science Laboratory			

Ndzalama Primary School Provisional Bill of Quantities  
Independent Development Trust  
Limpopo Department of Education

	Brought Forward			R
16	In surface beds cast on waterproofing	m3	32.00	
17	In ramps	m3	3.00	
18	Slab in podium	m3	2	
	<b><u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25MPa at 28 days</u></b>			
19	In footings to walls cast against excavated surfaces, stepped and levelled	m3	17.00	
	<b><u>FORMWORK</u></b>			
	<b><u>Rough Formwork</u></b>			
20	Edges, risers, ends and reveals not exceeding 300mm high	m	65.00	
	<b><u>REINFORCEMENT</u></b>			
	<b><u>Steel reinforcement to structural concrete work</u></b>			
21	All diameter Bars	t	5.00	
	<b><u>Fabric reinforcement</u></b>			
22	Type 395 fabric reinforcement in concrete surface beds, etc.	m2	224.00	
	<b><u>Finishing top surfaces of concrete smooth with a wood float</u></b>			
23	Surface beds, slabs, etc	m2	224.00	
	<b><u>BILL No 3: MASONRY</u></b>			
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
	<b><u>BRICKWORK IN FOUNDATION</u></b>			
24	One brick wall	m2	67	
	Carried Forward			R
Section No. 11 Bill No. 1 Science Laboratory				

Brought Forward				R
<b><u>BRICKWORK IN BURNT CLAY BRICKS IN (5:1) CEMENT MORTAR</u></b>				
25	Half brick wall	m2	51.00	
26	Half brick wall in beamfilling	m2	13.00	
27	One brick wall	m2	194.00	
28	Piers	m3	3	
<b><u>BRICK REINFORCEMENT</u></b>				
29	Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	150.00	
30	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	768.00	
<b><u>TEMPORARY TURNING PIECES, ETC.</u></b>				
31	To flat brick lintels not exceeding 300mm wide	m	37.00	
<b><u>SUNDRIES</u></b>				
32	40 x 1.6mm Galvanised hoop iron roof tie with one end built six courses deep into top of brickwork and other end wrapped around and nailed to trusses	No	138.00	
<b><u>MOVEMENT JOINTS</u></b>				
33	Movement joint formed of 10mm softboard built in vertically between brickwork	m	166	
<b><u>FACED BRICKWORK</u></b>				
<b><u>Internal facings in approved face bricks (FBS) with a PC Amount of R4,500.00 per thousand bricks delivered to site (excluding VAT) pointed with square recessed horizontal and vertical joints</u></b>				
<b><u>Extra over brickwork for face brickwork</u></b>				
Carried Forward				R
Section No. 11 Bill No. 1 Science Laboratory				

Brought Forward			R
<b><u>External facings in approved face bricks (FBS) with a PC Amount of R4,500.00 per thousand bricks delivered to site (excluding VAT) pointed with square recessed horizontal and vertical joints</u></b>			
34	Extra over ordinary brickwork for facing and pointing in stretcher bond	m2	194.00
35	Extra over ordinary brickwork in beamfilling for facing and pointing in stretcher bond	m2	13.00
36	Face brick-on-edge flat lintel course in cement mortar 220mm wide on soffit and pointing on 110mm wide projecting soffit and one side	m	37.00
37	Cut face brick-on-edge external window cill, 180mm wide, set sloping and slightly projecting in cement mortar and pointed on top, front edge and projecting soffit including all necessary fair raking cutting to facings under and fair and fitted ends	m	16.00
<b><u>BILL No 4: WATERPROOFING</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
<b><u>DAMP-PROOFING TO WALLS</u></b>			
38	375 Micron embossed black polyethylene damp-proof course to walls, cills, etc. (measured net)	m2	31.00
<b><u>DAMP-PROOFING UNDER FLOORS, ETC.</u></b>			
<b><u>Colour coded polyethylene sheeting complying with SABS 952, Type C in widest practicable widths with all joints lapped and sealed in accordance with the manufacturer's instructions</u></b>			
39	250 Micron green medium density damp-proof membrane laid loose on top of sand bed (elsewhere) under solid floors with pressure sensitive tape jointing	m2	294.00
<b><u>BILL No 5: ROOF COVERINGS</u></b>			
Carried Forward			R
Section No. 11 Bill No. 1 Science Laboratory			



<b>Brought Forward</b>			R	
<p><b>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</b></p> <p><b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b></p> <p><b><u>Supplementary preambles in connection with fixing of sheeting and accessories and laps are to be inserted when the Model Preambles for Trades (or other preambles not covering the fixing of sheeting and accessories and laps) are used</u></b></p> <p><b><u>When the pitch of troughed roof covering is less than 5 degrees or if dustproofing is required then the description of roof coverings "with side laps sealed" is to be used</u></b></p> <p><b><u>Where roof coverings are fixed on top of rigid board insulation to purlins etc descriptions of roof coverings are to include therefore</u></b></p> <p><b><u>Global Roofing Solutions 406mm cover Brownbuilt™ profile roll-formed in continuous lengths from 0.58mm thick Galvanised steel, Z200 spelter ISQ550 Chromadek® Traffic Green finish top coat and Pebble Grey backing coat roof sheeting, fixed to timber intermediate purlins at MAX 1200mm centres and eaves and ridge purlins at MAX 1200mm centres using Duplex clips fixed with 10No.11 x 45mm long self drilling wafer head PH2 screws, type 17 drill point fasteners, all in accordance with the manufacturer's specifications by a GRS approved contractor.</u></b></p>				
40	Roof sheeting with pitch not exceeding 9° fixed to timber purlins (elsewhere)	m2	325.00	
41	Ridge covering 450mm girth and fixed to timber purlins (elsewhere)	m	9.00	
42	Hip capping 450mm girth fixed to roof structure (elsewhere)	m	44.00	
<b><u>ROOF AND WALL INSULATION</u></b>				
<b>Carried Forward</b>			R	
<p>Section No. 11 Bill No. 1 Science Laboratory</p>				

		Brought Forward		R
		<b><u>Sisalation 410 Insulation</u></b>		
43	100mm non-combustible lightweight fiberglass insulation blanket fitted between tie beams and laid loose on top of brandering undelay dressed over bottom purlin into gutter	m2	325	
		<b><u>ROOF VENTILATORS</u></b>		
		<b><u>Galvanized steel louvred ventilators:</u></b>		
44	Triangular shaped steel fixed louvred ventilator size 2100mm wide at base x 450mm high fixed into timber roof trusses.	No	3.00	
		<b><u>BILL No 6: CARPENTRY AND JOINERY</u></b>		
		<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>		
		<b><u>FASCIAS AND BARGEBOARDS</u></b>		
		<b><u>Tempered fibre-cement</u></b>		
45	15 x 225mm Fascia board countersunk screwed to roof timbers (elsewhere) with two brass screws at maximum 1200mm centres and jointed with and including standard aluminium half round cover strips at all joints	m	69.00	
		<b><u>DOORS</u></b>		
		<b><u>Wrought Meranti</u></b>		
		<b><u>TIMBER DOORS, WINDOWS, ETC</u></b>		
		<b><u>Fire doors</u></b>		
		<b><u>User note</u></b>		
		<i>Where SANS 1253 in the following description is not applicable, refer to other suitable construction standards or provide full specifications</i>		
		Fire doors are to be in accordance with SANS 1253		
		Carried Forward		R
		Section No. 11		
		Bill No. 1		
		Science Laboratory		

Brought Forward			R
<b><u>DOORS ETC</u></b>			
<b><u>Solid meranti framed, ledged and braced batten doors with masonite veneer to internal face suitable for painting (painting elsewhere measured)</u></b>			
46	Standard made door 813 x 2032mm high (Door type DS23A)	No	4
47	Standard made door 813 x 2032mm high (Door type DS73A)	No	1
<b><u>Solid laminated external quality flush doors with veneer</u></b>			
48	Purpose made double door 1 613 x 2 032mm high (Door type DS77B)	No	1
<b><u>FITTINGS</u></b>			
<b><u>Sawn softwood</u></b>			
49	Shelves 450mm depth and 2 100mm high	No	3
50	JOH-Counters Top instance 600 x 900mm high	No	9
51	JON-Counter Top-L Shaped 625 x 900mm high	No	1
<b><u>CUPBOARDS TO KITCHENS, BOARDROOMS, ETC</u></b>			
52	Floor cupboard type FD-450 450 x 570 X 868mm high with top, sides, bottom, division, necessary framework and drawers	No	1
53	Floor cupboard type FD-900 900 x 570 X 868mm high with top, sides, bottom, division, necessary framework and drawers	No	1
<b><u>Nu-tec Board</u></b>			
54	20mm thick nu-tec boards as internal window cill	m	37
<b><u>BILL No 7: CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b>			
Carried Forward			R
Section No. 11 Bill No. 1 Science Laboratory			

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Brought Forward			R
<b>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</b>			
<b><u>CEILINGS</u></b>			
<b><u>Mineral wool insulation</u></b>			
55	Cellulose ceiling insulation laid loose over ceiling in roof void	m2	190.00
<b><u>6mm "Nu-tec" pressed fibre-cement boards with H-type pressed steel jointing strips</u></b>			
56	Ceilings including H-type pressed steel jointing strips and 38 x 38mm sawn softwood brander at 400mm centres in one direction and around edges where required for fixing cornices, securely spiked to roof timbers	m2	190.00
57	Extra over fibre-cement ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	5.00
<b><u>Shadowline cornice</u></b>			
58	SM25 recessed wall angle	m	144.00
<b><u>BILL No 8: IRONMONGERY</u></b>			
<b>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</b>			
<b><u>Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish</u></b>			
<b><u>THE FOLLOWING IRONMONGERY FIXED TO DOORS, ETC.</u></b>			
<b><u>Hinges</u></b>			
59	100mm mild steel butt hinge	No	21.00
Carried Forward			R
Section No. 11 Bill No. 1 Science Laboratory			

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<b>Brought Forward</b>	R
<p><u>User note</u></p> <p><i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i></p> <p><i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i></p> <p><i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i></p> <p><i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i></p> <p><i>Consideration is to be given in specific applications (e.g. where "heavy" steel structures such as in industrial plants, towers for mine shafts, etc are dominant) to implement the principles laid down by the "Measurement for Structural Steelwork" as prepared and recommended by the South African Institute of Steel Construction or any other appropriate principles</i></p> <p><i>This bill is, however, based on the building work measuring system</i></p> <p><i>Finishing-off painting is to be included in this trade only when the structural steel contractor is required to execute the work</i></p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p>	
<b>Carried Forward</b>	R
<p>Section No. 11</p> <p>Bill No. 1</p> <p>Science Laboratory</p>	

Brought Forward		R	
<p>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p><b><u>STEEL TRUSSES</u></b></p> <p><b><u>GALVANISED STEEL TRUSSES</u></b></p> <p><u>Welded roof trusses of angle rafters, tie beams, rails, struts, braces, cleats, etc and flat bearer, gusset and connection plates, bolted to steel</u></p>			
67	Roof truss construction for 9 degrees double pitched roof, including trusses, jack rafters, permanent bracing and 50 x 75mm purlins for 0,5mm "Brownbuilt Klip-Lok Light Industrial" galvanised troughed sheeting (measured elsewhere) including design and Engineers Certificate of Compliance. Building size: 11.14 x 13.35m with 0.5m overhangs at eaves with one porches of size 4.07 x 4.95m	No	1
	<u>Flatex Flat Sheet Welded to Steel Trusses</u>		
68	Welded to Trusses (Type 338)	m2	190
<b><u>BILL No 10: METALWORK</u></b>			
<p><b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b></p> <p><b><u>EXPANSION BOLTS : Expansion bolts shall be fixed in accordance with the manufacturer's instructions and prices are to include for drilling mortice for sockets in brickwork or concrete for same</u></b></p>			
Carried Forward		R	
<p>Section No. 11 Bill No. 1 Science Laboratory</p>			

Brought Forward			R
<b><u>The following in twenty four framed and welded mild steel security gates and fixing in position complete</u></b>			
69	Double gate in two equal leaves, each leaf formed of 50 x 25 x 3mm rectangular hollow section framing all round mitred and welded at angles mild steel square section 16mm diameter horizontal intermediate rails with ends welded to framing and with twelve 16mm diameter rod vertical bars framed through intermediate rails with ends welded to framing (hinges, locking devices, etc. elsewhere); size 1 575 x 2 125mm high overall	No	1.00
<b><u>DOOR FRAMES, DOORS, WINDOWS, ETC.</u></b>			
<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
<b><u>Standard 1,2mm thick pressed metal steel frame with double rebate complete with lugs and base ties as supplied by manufacturer suitable for 115mm wall.</u></b>			
70	Door Frame, size 813 x 2032mm high steel double rebated door frame	No	5.00
<b><u>Purpose Made 1,2mm thick pressed metal steel frame with double rebate complete with lugs and base ties as supplied by manufacturer suitable for 115mm wall.</u></b>			
71	Door Frame, size 1 511 x 2032mm high steel double rebated door frame	No	1.00
<b><u>STEEL WINDOWS</u></b>			
<b><u>NOTE : Windows shall be provided with chromium plated brass fittings All horizontal pivot windows to be fitted with cup keeps on pivot for maximum opening of 25°</u></b>			
Carried Forward			R
Section No. 11 Bill No. 1 Science Laboratory			



Brought Forward			R
<p><u>The given sizes are overall, approximate and in the order of width and height. The detailed drawings and building must be carefully checked for exact sizes before placing orders. Any errors in this respect will be at the Contractor's expense and no claims for any extras in this regard will be entertained</u></p> <p><u>Where so described windows shall be provided with burglar bars to opening and fixed sections, consisting of 10 x 5mm mild steel flat sections to standard NBP2 pattern welded at intersections and to window frame Bars in front of fixed sections to be bent 75mm away from the glass surface</u></p> <p><u>Standard rolled mild galvanised steel profile window as above with panes as indicated</u></p>			
72	Window type TS10, size 1 302 x 976mm High	No	12.00
<b><u>STEEL WINDOW SUNDRIES</u></b>			
73	25 x 25 x 3mm Mild steel square tube beading mitred and welded to window or door framing on inside at junction with facings	m2	16
74	Extra for flat closed end	No	12.00
<b><u>CAGING FOR GAS CYLINDERS</u></b>			
75	Allow a sum of R 6 500.00 for the erection of the gas cylinder caging, etc		
			SUM
<b><u>BILL No 11: PLASTERING</u></b>			
<p><u>NOTE Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></p> <p><b><u>(1:4) CEMENT SCREEDS TO CONCRETE</u></b></p> <p><b><u>30mm Thick</u></b></p>			
76	On floors to receive ceramic floor tiles (elsewhere)	m2	167.00
Carried Forward			R
<p>Section No. 11 Bill No. 1 Science Laboratory</p>			

Brought Forward			R
77	On walkway	m2	23.00
<b><u>INTERNAL PLASTER</u></b>			
78	On walls	m2	301
79	To narrow widths	m2	16
<b><u>BILL NO 12: FLOOR COVERINGS</u></b>			
<b><u>FLOOR COVERINGS, WALL LININGS, ETC</u></b>			
<u>User note</u>			
<i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i>			
<i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i>			
<i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i>			
<i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i>			
<u>Fixing</u>			
Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc			
<b><u>FLOOR COVERINGS</u></b>			
Carried Forward			R
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	Brought Forward		R	
85	Franke Kitchen Systems (t/a Citimetal) QUINLINE QLX611 (code 101.0039.859) Stainless steel single bowl sink. 900 x 500mm	No	2	
	<b><u>WASTE UNIONS ETC</u></b>			
86	32mm chromium plated basin waste union	No	37	
	<b><u>TRAPS ETC</u></b>			
87	38mm Rubber "P" or "S" trap	No	37	
	<b><u>TAPS, VALVES, ETC</u></b>			
88	15mm chromium plated sink mixer	No	3	
	<b><u>SANITARY PLUMBING</u></b>			
	<u>PVC-U soil and vent pipes</u>			
89	110mm Pipes	m	22	
	<u>Extra over PCV-U soil and vent pipes for fittings</u>			
90	40mm Bend	No	37	
91	40mm Junction	No	37	
92	40mm Reducing junction	No	37	
93	40mm Access junction	No	37	
94	40mm Access reducing junction	No	37	
	<b><u>WATER SUPPLIES</u></b>			
	<u>Galvanized steel pipes</u>			
95	40mm pipes laid in trenches not exceeding 1m deep	m	18	
	<u>Class 0 copper pipes</u>			
96	15 mm pipes chased into brickwork	m	21	
	<b>Carried Forward</b>			R
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Brought Forward				R
	<u>Extra over class 0 copper pipes for capillary fittings</u>			
97	15mm fittings	No	37	
	<u>Copper overflow and service pipes</u>			
98	15 mm service pipe 350mm girth	No	37	
	<u>Fire appliances etc.</u>			
99	9 Kg DCP dry powder portable fire extinguisher on and including wrought Meranti backboard size 520 x 100 x 22mm thick plugged and screwed to wall and finished with two coats of polyurethane varnish, including 120 x 20 x 2mm mild steel strip bent to form hook	No	6.00	
100	"Fire Fyter" Model 2000 or similar approved, fire hose reel with 30m long hose including jointing to steel supply pipe and fixing to wall	No	2.00	
	<u>TESTING</u>			
101	Provide all necessary apparatus, water, etc. for and test the whole of the Sanitary Plumbing and Water Supply installation to the satisfaction of the Representative/Agent and the Local Authority, rectify all defective work free of charge and leave in perfect order		Item	
	<u>RAINWATER DISPOSAL</u>			
	<u>0.6mm Galvanised sheet iron</u>			
102	100 x 100mm OGEE profile aluminium gutters with fixing clips fixed to fascia	m	69.00	
103	Extra over 100 x 100mm eaves gutter for outlet for 100mm pipe	No	12.00	
104	100mm Diameter rainwater pipes	m	36.00	
105	Extra over 100mm rainwater pipe for bend	No	12.00	
106	Extra over 100mm rainwater pipe for shoe	No	12.00	
107	Extra over rainwater pipe for eaves or plinth offset 600mm projection.	No	12	
	Carried Forward			R
	Section No. 11 Bill No. 1 Science Laboratory			

Brought Forward			R
<b><u>BILL No 15: GLAZING</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
<b><u>Glass in steel fixed with putty</u></b>			
108	4mm Clear glass in squares exceeding 0,5m <sup>2</sup> and not exceeding 2m <sup>2</sup> in area	m2	16.00
<b><u>BILL No 16: PAINTWORK</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
<b><u>Prepare, stop and apply one coat universal undercoat and two full coats plasconpolvin super acrylic pva paint for exterior use</u></b>			
109	On external fibre-cement fascias and bargeboards including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	16.00
<b><u>Prepare, stop and apply one coat alkali resistant primer, one coat universal undercoat and two full coats enamel paint to comply with SABS Specification No 630 Type 2</u></b>			
110	On internal fibre-cement board ceilings and cornices including priming steel joints and nail heads with one coat zinc phosphate alkyd resin primer	m2	190.00
<b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b>			
<b><u>One coat alkali resistant primer and two coats PVA emulsion paint for interior use</u></b>			
111	Walls	m2	301
<b><u>PAINT ON METAL</u></b>			
Carried Forward			R
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**Prepare and apply one coat universal undercoat and two coats plascon velvagro paint finish.**

**Prepare and apply one coat universal undercoat, two coats Plascon gloss enamel paint.**

114	On grille gates and screens (both sides measured on flat)	m2	16.00
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## PAINT ON WOOD

**Prepare and apply one coat wood primer**

### One coat primer and two coats creosote

**Prepare and apply one coat hardboard primer, one coat universal undercoat and two full coats high gloss enamel paint**

116	On doors	m2	24.00
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**Carried to Final Summary**

Section No. 11  
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Item No		Quantity	Rate	Amount
	<b><u>EXTERNAL WORKS</u></b>			
	<b><u>HAULAGE</u></b>			
	<u>Reference to haulage in SABS Specification 1200 shall not apply. All movement of material shall be regarded as free haul.</u>			
	<b><u>MEASUREMENT AND PAYMENT</u></b>			
	<u>Clause B relating to "Measurement and Payment" of SABS Specification 1200 shall not apply.</u>			
	<b><u>PRECAST CONCRETE KERBS</u></b>			
	<u>Precast concrete kerbs shall comply with SABS 927 generally on 1000mm lengths and finished smooth from the mould on exposed surfaces. Kerbs shall be bedded on and jointed in 3:1 cement mortar and pointed with keyed joints.</u>			
	<b><u>COVERED PARKING BAYS</u></b>			
	<b><u>EXCAVATION, FILLING, ETC, OTHER THAN BULK</u></b>			
	<b><u>KERBS, ETC.</u></b>			
	<u>Where kerbstones, blocks, etc., are laid in ground, descriptions shall be deemed to include necessary excavation, filling in and ramming at adjacent surfaces.</u>			
	<b><u>MAINTENANCE OF ROADWORKS</u></b>			
	<u>Maintenance period for civil works such as roads, parking and related earthworks shall be three (3) calendar months.</u>			
	<b><u>SECTION 1 : PIPE TRENCHES FOR WATER AND SEWER SERVICES</u></b>			
	<b><u>SITE CLEARANCE</u></b>			
1	Remove vegetation & trees of girth up to 3m	m2	1,000	
	<b>Carried Forward</b>		R	
	Section No. 12 Bill No. 1 External Works			



Brought Forward			R
<b><u>TRENCH EXCAVATIONS :</u></b>			
<u>Excavate in all materials for trenches, backfill and compact to 93% Mod AASHTO between and over pipes, including disposal of surplus material.</u>			
<u>For water lines:</u>			
<u>For depths :</u>			
2	0.000m to 1.5m	m	450
<u>For sewer lines:</u>			
<u>For depths :</u>			
3	1.001m to 1.5m	m	400
<b><u>EXTRA OVER :</u></b>			
4	Extra over excavations in earth for trenches and holes for excavations in hard rock	m3	50.00
<b><u>EXCAVATION ANCILLARIES :</u></b>			
5	Import ash or gravel bedding where ordered (all the trenches)	m3	150
<b><u>SECTION 2 : WATER MAINS RETICULATION</u></b>			
<b><u>PIPEWORK :</u></b>			
<u>Supply, handle, lay, joint, supply bedding and fill blanket class B, test and disinfect pipes with one coupling per pipe : class 12 uPVC, compliance with SANS 966</u>			
6	63mm dia	m	400
<b><u>SPECIALS &amp; FITTINGS :</u></b>			
<u>Extra over for the supply, laying and bedding of specials complete with couplings. Supply, lay, supply bed for class B joint, including cut pipes to lengths required, test and disinfect</u>			
Carried Forward			R
Section No. 12 Bill No. 1 External Works			

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Brought Forward			R
<b><u>BENDS :</u></b>			
7	63mm x 90 deg	No	10
<b><u>TEES :</u></b>			
<u>Plain ended for uPVC pipe :</u>			
8	63 x 63	No	10
<b><u>VALVES :</u></b>			
<u>Extra over for the supplying, fixing and bedding of valves. Supply, install on concrete support, joint, including cut pipes where necessary, test, cap top. Resilient seal valve, anti clockwise closing, waterworks double flanged, non-rising spindle, class 16</u>			
9	63 mm SOCKETED	No	10
<b><u>END CAPS :</u></b>			
<u>For uPVC pipe :</u>			
10	63 mm	No	6
<b><u>ANCILLARIES :</u></b>			
11	Supply concrete markers marked V for valves	No	10
12	Supply and erect 4 x 10 000 liters tank (Jojo or similar) on 9m high including foundations and booster pump (20m)		SUM
13	Supply and erect 4 x Drinking fountain		SUM
<b><u>SECTION 3 : SEWER MAINS RETICULATION</u></b>			
<b><u>PIPEWORK :</u></b>			
<u>Supply, bed, lay, joint, supply bedding class B and fill blanket, test pipes with joints, Main core pipe</u>			
14	160 mm dia, flexible joints	m	400
<b><u>MANHOLES :</u></b>			
Carried Forward			R
Section No. 12 Bill No. 1 External Works			

	Brought Forward			R
	<u>Complete with heavy duty concrete type cover with metal lip ring and frame - precast or cast in situ</u>			
	<u>For depths over and up to :</u>			
15	Connect to existing manhole and make good	No	1	
	<b><u>SECTION 4 : STORM WATER DRAINAGE</u></b>			
	<b><u>CHANNEL LINING :</u></b>			
	<b><u>Minor Apron and channels :</u></b>			
16	Supply and lay 20 Mpa 800mm wide V-shaped concrete channel 100mm thick with 311 mesh	m2	1,390	
	<b><u>SECTION 5 : BULK EARTHWORKS &amp; PARKING AREA</u></b>			
	<b><u>EARTHWORKS :</u></b>			
	<b><u>TREATMENT OF ROAD-BED :</u></b>			
	<u>In situ material rip and compact :</u>			
17	To minimum of 93% mod. AASHTO density for internal roads and parking area	m3	450	
	<b><u>BORROW TO FILL :</u></b>			
18	Compact to minimum of 93% mod. AASHTO density (G5 material)	m3	6,300	
	<b><u>CUT TO SPOIL FROM :</u></b>			
19	Soft excavation	m3	6,300	
	<b><u>LAYER WORKS</u></b>			
20	Preparation of the road bed (Rip and compact the road bed to 93% Mod. AASTHO density	m3	480	
21	Import G5 Material from commercial source and compact to minimum of 95% mod. AASHTO density (Base)	m3	480	
	<b>Carried Forward</b>			R
	Section No. 12			
	Bill No. 1			
	External Works			

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	<b>Brought Forward</b>			<b>R</b>	
22	Import G5 Material from commercial source and compact to minimum of 95% mod. AASHTO density (Subbase)	m3	480		
	<b><u>PAVING :</u></b>				
23	Construct 60mm interlocking paving including 25mm sand	m2	2,500		
	<b><u>CONCRETE KERBING :</u></b>				
	<u>Supply, handle and lay concrete kerbing</u>				
24	SABS figure 7 cast in situ or precast : straight & curved incl.	m	370		
25	SABS figure 8C cast in situ or precast : straight and curved incl.	m	15		
26	SABS figure 11 cast in situ or precast : straight & curved incl.	m	10		
	<b><u>ANCILLARY ROADWORKS :</u></b>				
	<b><u>PERMANENT TRAFFIC SIGNS :</u></b>				
27	<u>Sign faces with painted background. Symbols, characters, legend and borders in engineering grade retro-reflective material with signboards constructed from 1.6 mm thick aluminium plate, all sizes</u>	m2	15		
28	Steel poles for sign supports	t	2.50		
29	Excavation for sign supports, backfilling with 20 MPa concrete	m3	4		
	<b><u>ROAD MARKING :</u></b>				
	<u>reflectorised paint applied at nominal rate of 0.42 l/m2</u>				
30	White characters and symbols	m2	50		
31	100mm broken white lines	m	140		
32	200mm white lines	m	135		
	<b>Carried Forward</b>			<b>R</b>	
	Section No. 12				
	Bill No. 1				
	External Works				

	Brought Forward			R
	<b><u>SECTION 6 : WALKWAYS &amp; PARKING</u></b>			
	<b><u>CANOPIES</u></b>			
	<b><u>WALKWAY CANOPY</u></b>			
	<b><u>CONCRETE</u></b>			
	<b><u>REINFORCED CONCRETE</u></b>			
	<b><u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 20MPa at 28 days</u></b>			
33	In Slabs	m3	126.00	
	<b><u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25MPa at 28 days</u></b>			
34	In footings to walls cast against excavated surfaces, stepped and levelled	m3	238.00	
	<b><u>REINFORCEMENT</u></b>			
	<b><u>Steel reinforcement to structural concrete work</u></b>			
35	All Diameter bars	t	22.000	
	<b><u>MASONRY</u></b>			
36	One brick wall	m2	760	
	<b><u>FLAT SHEET METAL</u></b>			
37	Roof covering with pitches not exceeding 25 degrees	m2	1,260	
	<b><u>STEEL PORTAL FRAMES</u></b>			
	<b><u>GALVANISED STEEL PORTAL FRAMES</u></b>			
	<b><u>Welded portal frames with flat bearer, gusset and connection plates and angle cleats, bolted to concrete</u></b>			
38	Steel frame	t	30.00	
	Carried Forward			R
	Section No. 12 Bill No. 1 External Works			

Brought Forward			R
<b><u>PARKING CANOPY</u></b>			
<b><u>REINFORCED CONCRETE</u></b>			
<b><u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25MPa at 28 days</u></b>			
39	In footings to walls cast against excavated surfaces, stepped and levelled	m3	10.00
<b><u>FLAT SHEET METAL</u></b>			
40	Roof covering with pitches not exceeding 25 degrees	m2	200
<b><u>STEEL PORTAL FRAMES</u></b>			
<b><u>GALVANISED STEEL PORTAL FRAMES</u></b>			
<b><u>Welded portal frames with flat bearer, gusset and connection plates and angle cleats, bolted to concrete</u></b>			
41	Steel frame	t	7.00
<b><u>SECTION 7: FENCING</u></b>			
42	Fencing barrier 2 100mm high, comprising steel palisade fence including pipe posts, intermediates, stays, gates, etc.	m	783.00
43	Extra over fencing barrier for 1 200mm wide x 2 400mm high overall single-leaf pedestrian gate with razor wire at top, including posts, framing, bracing, hinges, barrel bolts, padlock, shade cloth covering, etc.	No	4.00
44	Fencing barrier 1200mm high, comprising steel palisade fence including pipe posts, intermediates, stays, gates, etc.	m	435
45	Extra over fencing barrier for 5000mm wide x 2400mm high overall double-leaf gate with razor wire at top, including posts, framing, bracing, hinges, barrel bolts, padlock, shade cloth covering, etc.	No	2.00
Carried Forward			R
Section No. 12 Bill No. 1 External Works			

[illegible]

Item No	Quantity	Rate	Amount
<b><u>PROVISIONAL SUMS, BUDGETARY ALLOWANCES</u></b>			
<b><u>SPECIALIST INSTALLATIONS</u></b>			
<p><u>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities</u></p> <p><u>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted</u></p>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>General</u></b>			
<p><u>Unless otherwise described, all prime cost amounts and provisional sums shall be nett. No provision for cash discount shall be included for the main contractor.</u></p> <p><u>Prime cost amounts and provisional sums exclude value added tax.</u></p> <p><u>In the event of a prime cost amount or provisional sum being omitted the items "Allow for profit"... and "allow for attendance" applicable, shall be omitted together with the prime cost amount or provisional sum and no claim whatsoever will be entertained in this regard.</u></p> <p><u>The principal agent shall be entitled to nominate or select any further specialist and other to execute work or supply and fix any goods whether or not a provisional sum is included in the bills of quantities and such specialists and other will then be deemed to be "selected subcontractors" as the case may be.</u></p>			
<b><u>Profit</u></b>			
Carried Forward		R	
Section No. 13 Bill No. 1 Provisional Sums			



Brought Forward	R	
<u>Where profit stated, the contractor may allow for profit if required</u>		
<u>Attendance upon nominated/selected subcontractors</u>		
<u>The item "Allow for attendance...." which follows each provisional sum for nominated/selected subcontractors work, shall be deemed to cover all the contractors costs incurred in providing free of charge to the subcontractor the service as set out in the relevant clause in the preliminaries</u>		
<u>Taking delivery</u>		
<u>Taking delivery of goods or articles by the contractor on site shall mean getting in, unpacking, checking that the quantity is correct and that the goods are complete and undamaged,submitting a report thereof to the interested parties and issuing vouchers for the receipt of such goods.The contractor is to store the goods and will be held responsible for the safety thereof and indemnify the employer against any damage or loss which may occur.</u>		
<u>Works executed under a seperate/direct contract</u>		
<u>The contractor shall permit access to the site and to the places where the work is to be carried out and provide every facility to enable the specialist to carry out his work in a workmanlike manner and in proper order and sequence.</u>		
<u>Co-ordination</u>		
<u>The contractor shall obtain all necessary particulars of the subcontractors work timeously and the contractor will be responsible for the programming and co-ordination of the works</u>		
<u>Number of nominated/selected subcontractors</u>		
Carried Forward	R	
Section No. 13 Bill No. 1 Provisional Sums		

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Brought Forward		R	
<p><u>The contractors attention is drawn to the fact that the indicated individual provisional sums may consist of numerous specialist, all of which will become nominated/selected subcontractors. The contractor must therefore allow in his tender for any cost implication this may bring about, as no claims in this regard will be entertained</u></p> <p><b><u>SPECIALIST INSTALLATIONS</u></b></p> <p><b><u>Jungle Gym</u></b></p>			
1	Provide the sum of R 100 000,00 for purchase of Jungle gyms, slides, build sand pit and swing set for Grade R play ground	Item	100,000.00
2	Allow for Profit on above item	%	
3	Allow for Attendance on above item	%	
<p><b><u>Grade R Furniture</u></b></p>			
4	Provide the sum of R 80 000,00 for purchase of Grade R furniture and fit out	Item	80,000.00
5	Allow for Profit on above item	%	
6	Allow for Attendance on above item	%	
<p><b><u>Primary Classroom Furniture</u></b></p>			
7	Provide the sum of R 638 064,00 for Classroom Furniture To be Provided by Nominated Subcontractor- Primary Table including chair combos, Teachers Desks and chairs, Steel Filling Cabinet- lockable etc	Item	638,064.00
8	Allow for Profit on above item	%	
9	Allow for Attendance on above item	%	
Carried Forward		R	
<p>Section No. 13 Bill No. 1 Provisional Sums</p>			

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<b>Brought Forward</b>		R	
<b><u>Science Laboratory Furniture</u></b>			
10	Provide the sum of R 85 000.00 for the Science Lab, to be Provided by Nominated Subcontractor - desks and chairs, Shelves, Filling Cabinet- lockable, Boardroom table and chairs, etc	Item	85,000.00
11	Allow for Profit on above item	%	
12	Allow for Attendance on above item	%	
<b><u>Admin Block Furniture</u></b>			
13	Provide the sum of R 150 000,00 for Admin Furniture To be Provided by Nominated Subcontractor - Primary Table including chair combos, Teachers Desks and chairs, Steel Filling Cabinet- lockable etc	SUM	
14	Allow for Profit on above item	%	
15	Allow for Attendance on above item	%	
<b><u>Borehole</u></b>			
16	Provide the sum of R 350 000,00 for supply and install of a borehole and upgrade existing	Item	350,000.00
17	Allow for Profit on above item	%	
18	Allow for Attendance on above item	%	
<b><u>Signage and Telecommunication</u></b>			
19	Provide the provisional sum of R 100 000,00 for Signage and Telecommunications	SUM	
20	Allow for Profit on above item	%	
<b>Carried Forward</b>		R	
Section No. 13 Bill No. 1 Provisional Sums			

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	<b>Brought Forward</b>		R	
21	Allow for Attendance on above item	%		
	<b><u>Temporary Classroom</u></b>			
22	Provide the sum of R 801 840.00 for purchase of four Temporary Classrooms including temporary connections plus allowance for relocation within a 50km radius		SUM	
23	Allow for Attendance on above item	%		
24	Allow for Profit on above item	%		
	<b><u>Equipment and Furniture to Nutrition Centre</u></b>			
25	Provide the sum of R 180 000.00 for equipment and furniture to the Nutrition Centre, to be Provided by Nominated Subcontractor - Tables and Chairs, Shelves, etc		SUM	
26	Allow for Attendance on above item	%		
27	Allow for Profit on above item	%		
	<b><u>Electrical - Works</u></b>			
28	Provide the sum of R 3 678 787.70 for New Electrical Installation by a Selected sub- contractor.	Item		3,678,787.70
29	Allow for Profit on above item	%		
30	Allow for Attendance on above item	%		
	<b>Carried to Final Summary</b>		R	
	Section No. 13			
	Bill No. 1			
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Section No		Page No	Amount	
FINAL SUMMARY				
1	PRELIMINARY AND GENERAL	60		
2	Demolition	61		
3	Refurbishment of 18 Waterborne Toilets	72		
4	Refurbishment of 1 x 3 Classrooms (3 Classrooms)	90		
5	Refurbishment of 1 x 4 Classroom Block (4 Classrooms)	109		
6	Conversion of Building 8 into Nutrition Centre	129		
7	Large Administration Block	155		
8	1 x 8 Toilets (8 Toilets)	203		
9	1 x 6 Ablution Block (6 Toilets)	249		
10	4 x 4 Classroom Blocks (16 Classrooms)	266		
11	Science Laboratory	287		
12	External Works	295		
13	Provisional Sums	300		
	Sub Total		R	
	Allow for 5% for unforeseen contingency requirement on site. This amount is to be expanded in part or whole, only upon written instruction from Representative/Agent (Excluding Provisional Sums)	%		
	Sub Total		R	
	Escalation	%		
	Sub Total		R	
	Tax		R	