

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 1</u> <u>PRELIMINARY AND GENERAL</u></p> <p><u>BILL NO. 1 : PRELIMINARY AND GENERAL</u></p> <p><u>NOTES TO PRELIMINARIES</u></p> <p><u>1.0 These Preliminaries comprise the following:</u></p> <p><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></p> <p><u>1.2 Part B - The ASAQs Preliminaries May 2005 as amended by these Bills of Quantities.</u></p> <p><u>1.3 Part C - Additional Preliminaries to meet the particular circumstances of this project</u></p> <p><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></p> <p><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></p> <p><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></p> <p><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></p>			
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<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><u>PART A - PRINCIPAL BUILDING AGREEMENT</u></p> <p><u>DEFINITIONS</u></p> <p>1 CLAUSE 1.0 : DEFINITIONS AND INTERPRETATION</p> <p><u>Fixed .R; Time .R.....; Value .R.....</u></p> <p><u>OBJECTIVE AND PREPARATION</u></p> <p>2 CLAUSE 2.0 : OFFER, ACCEPTANCE AND PERFORMANCE OBLIGATIONS</p> <p><u>Fixed .R; Time .R.....; Value .R.....</u></p> <p><u>PREPARATION</u></p> <p>3 CLAUSE 3.0 : DOCUMENTS</p> <p><u>Fixed .R; Time .R.....; Value .R.....</u></p> <p>4 CLAUSE 4.0 : DESIGN RESPONSIBILITY</p> <p><u>Fixed .R; Time .R.....; Value .R.....</u></p> <p>5 CLAUSE 5.0 : EMPLOYER'S AGENTS</p> <p><u>Fixed .R; Time .R.....; Value .R.....</u></p>			
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Clause 5.3.2 is amended by the addition of the following to the end thereof :

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 :-

1. ARCHITECT

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:-

1.1 Give opinion on aspects of the works which are not in accordance with the agreement.

1.2 Supply the specified number of drawings.

1.3 Issue instructions if bills of quantities/lump sum document are to be used as a specification.

1.4 Be responsible for the design of the works.

1.5 Be responsible for co-ordination of design elements

1.6 Receive, co-ordinate and accept design documentation and design undertaken by nominated or selected subcontractors.

1.7 Issue contract instructions to the contractor regarding:-

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.

1.7.2 Removal of any materials and goods from the site and the substitution of any other materials and goods.

1.7.3 Removal or re-execution of any work.

1.7.4 Opening up of work for inspection

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1.7.5 Testing of work and materials and goods

1.7.6 Protection of the works.

1.7.7 Making good physical loss and repairing damage to the works.

1.7.8 The list for practical completion, works completion, final completion and defects.

1.7.9 Compliance with acts of parliament, regulations and bylaws.

1.8 Witness the handing over to the contractor of pegs, beacons and datum level.

1.9 Define levels and provide the contractor with the necessary information to set out the works.

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.

1.11 Inspect the works for practical completion.

1.12 Issue practical completion list and reinspect upon request of contractor.

1.13 Issue works completion list.

1.14 Inspect the works for works completion upon request of contractor.

1.15 Inspect the works at the end of the defects liability period.

1.16 Issue a defects list and reinspect upon request of the contractor.

2. QUANTITY SURVEYOR

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 :-

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2.1 Consult with the contractor in correction of rates for errors and discrepancies.

2.2 Prepare the monthly recovery statement.

2.3 Complete the schedule and arrange for the signing of the agreement.

2.4 Hold a signed set of contract documents.

2.5 Supply the specified number of unpriced bills of quantities.

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.

2.7 Deal with amounts paid by the contractor to authorities having jurisdiction over the works.

2.8 Measure and value the making good of physical loss or damage.

2.9 Issue contract instructions to the contractor regarding:-

2.9.1 Rectification of discrepancies, errors in description or omissions in contract documents.

2.9.2 Furnishing proof of payment to nominated and selected subcontractors.

2.9.3 Budgetary allowances and work executed by the contractor thereunder.

2.9.4 Contingency and other monetary provisions included in the contract sum.

2.10 Prepare nominated and selected subcontract tender and contract documents.

2.11 Receive proof from the contractor that the contractors payment obligations have been met in respect of nominated and selected subcontractors.

2.12 Act on employers instructions to pay nominated and selected subcontractors directly.

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2.13 Adjustment of the contract value in respect of a revision to the date of practical completion.

2.14 Calculate penalties for non-completion.

2.15 Valuation of payment claims for payment certificates.

2.16 Authorise or otherwise the removal of materials or goods from site by the contractor where these have been paid for.

2.17 Calculate compensatory and penalty interest due to the parties.

2.18 With each payment certificate issue:-

2.18.1 Details of amounts certified for each nominated or selected subcontractor

2.18.2 Notification to each nominated and selected subcontractor showing the formulation of subcontract amounts included in payment certificates.

2.18.3 A statement to the employer and contractor showing the total amount certified and all adjustment amounts.

2.19 Determine the value of adjustments to the contract value.

2.20 Receive from the contractor details of expense and loss claims and assess such claims.

2.21 Prepare the relevant information required for the issue of the recovery statement with payment certificate.

2.22 Prepare the final account and submit to the contractor.

3. CIVIL AND STRUCTURAL ENGINEER

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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:-

3.1 Give opinion on aspects of the works which are not in accordance with the agreement.

3.2 Supply the specified number of drawings.

3.3 Issue instructions if bills of quantities/lump sum document are to be used as a specification.

3.4 Be responsible for the design of the works.

3.5 Receive and accept design documentation and design undertaken by nominated or selected subcontractors.

3.6 Issue contract instructions to the contractor regarding:-

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.

3.6.2 Removal of any materials and goods from the site and the substitution of any materials and goods therefore.

3.6.3 Removal or re-execution of any work.

3.6.4 Opening up of work for inspection

3.6.5 Testing of work and materials and goods.

3.6.6 Protection of works.

3.6.7 Making good physical loss and repairing damage to the works.

3.6.8 Compliance with acts of parliament, regulations and bylaws.

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3.7 Define levels and provide the contractor with the necessary information to set out the works.

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.

3.9 Inspect the works for practical completion.

3.10 Inspect the works for works completion upon request of contractor.

3.11 Inspect the works at the end of the defect liability period.

4. ELECTRICAL ENGINEER

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:-

4.1 Give opinion on aspects of the works which are not in accordance with the agreement.

4.2 Supply the specified number of drawings.

4.3 Issue instructions if bills of quantities/lump sum document are to be used as a specification.

4.4 Be responsible for the design of the works.

4.5 Receive and accept design documentation and design undertaken by nominated or selected subcontractors.

4.6 Issue contract instructions to the contractor regarding:-

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.

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4.6.2 Removal of any materials and goods from the site and the substitution of any materials and goods therefore.

4.6.3 Removal or re-execution of any work.

4.6.4 Opening up of work for inspection

4.6.5 Testing and commissioning of work, materials and goods.

4.6.6 Protection of works.

4.6.7 Making good physical loss and repairing damage to the works.

4.6.8 Compliance with acts of parliament, regulations and bylaws.

4.7 Define levels and provide the contractor with the necessary information to set out the works.

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.

4.9 Inspect the works for practical completion.

4.10 Inspect the works for works completion upon request of contractor.

4.11 Inspect the works at the end of the defect liability period.

4.12 Measure and value the making good of physical loss or damage.

5.0 HEALTH AND SAFETY CONSULTANT

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:-

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		<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	CLAUSE 6.0 : SITE REPRESENTATIVE	<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> <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>	Item	
7	CLAUSE 7.0 : COMPLIANCE WITH REGULATIONS		Item	
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Clause 7.0 is amended by the addition of the following clauses :

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.

7.4 Health and Safety Specification - the contractor shall comply with the requirements of the Occupational Health & 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.

"The Contractor acknowledges that the undertaking given in this clause constitutes an agreement in terms of Section 37 (20 of the OHSA 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".

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HEALTH AND SAFETY

**COMPILATION AND REVIEW OF HEALTH AND
SAFETY PLAN**
IMPLEMENTATION OF HEALTH AND SAFETY PLAN
**PHASE SAFETY, HEALTH, ENVIROMENTAL AND
MANAGEMNT PLAN AND IMPLIMENTATION**
ADMINISTRATION
NAME BOARDS
ACCESS
REMOVAL OF SITE ESTABLISHMENT

MEDICALS

PRE-EMPLOYMENT MEDICALS
**PSYCHOLOGICAL MEDICALS FOR WORKING
HEIGHTS**
**PSYCHOLOGICAL MEDICALS FOR WORKING
MOTORIZED EQUIPMENT AND
CONSTRUCTION MACHINERY**
MEDICAL FOR WORKING ASBESTOS
**ROUTINE MEDICAL AS PER REQUIREMENT OF JOB
ACTIVITIES**
**RE-MEDICALS- YEARLY (12 MONTHS AFTER
COMMENCEMENT)**
EXIT MEDICALS

PERSONAL PROTECTIVE EQUIPMENT

OVERALLS (BLUE) WITH REFLECTORS
SPECIALISED OVERALLS (CHEMICALS ETC.)
**HARD HATS AND SAFETY GLASSES (HARD HATS
WITH A6 STICKERS)**
SAFETY BOOTS/SHOES
GLOVES
**BREATHING APPARATUS(CONFINED SPACE,
ASBESTOS & CHEMICALS)**
**TESTING EQUIPMENT (OXYGEN MEASURING,
NOISE LIGHTING , LIGHTNING AND WIND
CENTRALIZED)**
ORANGE STAR NETTING – 1.2 M
ORANGE PLASTIC AND ROAD CONES
PLASTIC REINFORCE CAPS(RED BAR)
DUST MASKS
EAR PLUGS / EAR MUFFS

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FIRE FIGHTING

FIRE EXTINGUISHERS – 9 KG
FIRE EXTINGUISHERS – 4.5 KG
TRAINING
SURVEYS
OTHER - DRIP TRAYS

HEALTH AND SAFETY PERSONNEL

SAFETY MANAGERS (50%)
SAFETY OFFICER
FULLTIME SAFETY REPRESENTATIVE IF
REQUIRED
FIRE WATCHERS
FIRST AIDERS
FLAG PERSON
INTERNAL AUDITORS COSTS
OCCUPATIONAL HYGIENIST
FIRE WATCHERS
FIRST AIDERS
INTERNAL AUDITORS COSTS
OCCUPATIONAL HYGIENIST

FIRST AID

FIRST AID BOXES
RESCUE EQUIPMENT AND STRETCHERS
REPLENISHMENT OF BOXES AND OTHER
SUPPLIES
HAZCHEM SPILL KITS (HAZARDOUS CHEMICAL
KITS)

TRAINING

SHE REPRESENTATIVE
SUPERVISOR A2 (NO COST)
MANAGEMENT / SAFETY OFFICER A3 (NO COST)
FIRST AID LEVEL 1-5
FIRE FIGHTING
LEGAL LIABILITY
HIRAC (HAZARD IDENTIFICATION AND RISK
ASSESSMENT COURSE)
INCIDENT INVESTIGATION (R-CAT)
SCAFFOLDING INSPECTOR
SCAFFOLDING ERECTOR
BASIC WORKING AT HEIGHTS
RESCUE AT HEIGHTS

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SIGNAGE
ALL SIGNAGE AS REQUIRED BY LAW:
REGULATORY, MANDATORY, WARNING AND
INFORMATION
POSTERS FOR AWARENESS
ADMIN

ELECTRICAL
LOCKS REQUIRED FOR LOCKOUTS
TAGS
PERMIT BOOKS
CALLIPERS
KEY SAFES

FALL PREVENTION / PROTECTION

SAFETY HARNESSES WITH DOUBLE LANYARDS
LANYARD EXTENDERS
SCAFFOLD HOOKS
LIFELINES AND VERTICAL FALL ARREST
SYSTEMS
SCAFFOLDING – MATERIAL ERECTION AND
INSPECTION (ESTIMATE FOR PROJECT
TEMPORARY AND RAILING MATERIAL AND KICK
FLATS
INSPECTION FOR APPROVAL OF EQUIPMENT (AIA)
CHIN STRAPS / TOOL BAGS / WRIST STRAPS
OTHER

VEHICLE / MOBILE EQUIPMENT UPGRADE FOR
USE ON SITE

RAISED LIGHTS
ROTATING ORANGE LIGHT
FLAG AS PER PROCEDURE
FIRE EXTINGUISHER - 4.5 KG
FIRST-AID BOX
REFLECTOR TAPE
DANGER TAPE
SIGNAGE
ROLL OVER AND FALL OVER PROTECTION
SAFETY BELTS FOR ALL PASSENGERS (LDV)
WHEEL CHOKES
TRIANGLE SIGN (PER CAR / VEHICLE)
PLANT HIRE.

8 CLAUSE 8.0 : WORKS RISK

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9	CLAUSE 9.0 : INDEMNITIES	Item		
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
10	CLAUSE 10.0 : WORKS INSURANCES	Item		
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
	<u>Clause 10.1 is amended by the addition of the following:</u>			
	<u>The contractor shall effect, as a minimum, the following insurances:</u>			
	<u>a) Insurance to comply with the provisions of the Compensation for Occupational Injuries and Diseases Act 1993.</u>			
	<u>b) Employers Liability Insurance for no less than R5 million</u>			
	<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>			
	<u>Furthermore the contractor shall effect and maintain for the duration of the contract Motor Vehicle Liability Insurance company:</u>			
	<u>d) Insurance in accordance with the Multilateral Motor Vehicle Accident fund No 93 of 1989 as amended.</u>			
	<u>e) Balance of Third Party Motor Risks including passenger Liability.</u>			
11	CLAUSE 11.0 : LIABILITY INSURANCES	Item		
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
12	CLAUSE 12.0 : EFFECTING INSURANCES	Item		
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	<u>Where called upon to do so, the party/ies responsible for effecting the various insurances, shall complete the relevant "Declaration of Insurance"</u>			
13	CLAUSE 13.0 : NO CLAUSE	Item		
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
14	CLAUSE 14.0 : SECURITY	Item		
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
	<u>Clause 14.0 is amended by the addition of the following clause :</u>			
	<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>			
	<u>EXECUTION</u>			
15	CLAUSE 15.0 : PREPARATION FOR AND EXECUTION OF THE WORKS	Item		
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
16	CLAUSE 16.0 : ACCESS TO THE WORKS	Item		
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
	<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>			
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	<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>		
17	<p>CLAUSE 17.0 : CONTRACT INSTRUCTIONS</p> <p><u>Clause 17.0 is amended by adding Clause 17.6</u></p> <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>	Item	
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>	Item	
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21	CLAUSE 21.0 : SELECTED SUBCONTRACTORS	Item		
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
22	CLAUSE 22.0 : EMPLOYER'S DIRECT CONTRACTORS	Item		
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
	<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	Item		
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
	<u>COMPLETION</u>			
24	CLAUSE 24.0 : PRACTICAL COMPLETION	Item		
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
25	CLAUSE 25.0 : WORKS COMPLETION	Item		
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
26	CLAUSE 26.0 : FINAL COMPLETION	Item		
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
27	CLAUSE 27.0 : LATENT DEFECTS LIABILITY PERIOD	Item		
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
28	CLAUSE 28.0 : SECTIONAL COMPLETION	Item		
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
29	CLAUSE 29.0 : REVISION OF DATE FOR PRACTICAL COMPLETION	Item		
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30	CLAUSE 30.0 : PENALTY FOR NON-COMPLETION	Item	
	<u>Fixed .R; Time .R.....; Value .R.....</u>		
	<u>PAYMENT</u>		
31	CLAUSE 31.0 : INTERIM PAYMENT TO THE CONTRACTOR	Item	
	<u>Fixed .R; Time .R.....; Value .R.....</u>		
	<u>Clause 31.0 is amended as follows :</u>		
	<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>		
	<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>		
	<u>Notwithstanding this or any other Clause, materials and goods stored off Site, shall not be included in the amount authorised for payment.</u>		
	<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>		
32	CLAUSE 32.0 : ADJUSTMENT TO THE CONTRACT VALUE	Item	
	<u>Fixed .R; Time .R.....; Value .R.....</u>		
	<u>Clause 32.0 is amended by the addition of the following clauses:</u>		
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	<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> <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>	Item		
	Carried Forward		R	
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	<u>TERMINATION</u>			
36	CLAUSE 36.0 : CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT <u>Fixed .R; Time .R.....; Value .R.....</u> <u>Clause 36.0 is amended by the following:</u> <u>The addition of the following :</u> <u>36.1.3 Is placed under provisional or final liquidation</u> <u>or judicial management</u>	Item		
37	CLAUSE 37.0 : CANCELLATION BY EMPLOYER - LOSS AND DAMAGE <u>Fixed .R; Time .R.....; Value .R.....</u>	Item		
38	CLAUSE 38.0 : CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT <u>Fixed .R; Time .R.....; Value .R.....</u>	Item		
39	CLAUSE 39.0 : CANCELLATION - CESSATION OF THE WORKS <u>Fixed .R; Time .R.....; Value .R.....</u>	Item		
	<u>DISPUTE</u>			
40	CLAUSE 40.0 : DISPUTE SETTLEMENT <u>Fixed .R; Time .R.....; Value .R.....</u>	Item		
	<u>SUBSTITUTE PROVISIONS</u>			
41	CLAUSE 41.0 : STATE CLAUSES <u>Fixed .R; Time .R.....; Value .R.....</u>	Item		
	<u>CONTRACT VARIABLES</u>			
	<u>THE SCHEDULE</u>			
42	CLAUSE 42.0 : PRE-TENDER INFORMATION	Item		
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The preselected alternatives in the Contract Data Contractor - Employer indicate the preferences of the employer.

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.

Further provisions and information agreed by the parties :

The following documents shall form part of this agreement :

- Contract drawings

- Standard Preambles for Trades

- Contract Programme

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.

Contracting parties

As stipulated in the Contract Data

CLAUSE 42.1 : CONTRACTING AND OTHER PARTIES

42.1.1 Employer : Independent Development Trust (IDT) - Limpopo

Postal address : P.O. Box 55386, Polokwane
Code : 0700

Tel : 015 295-0000

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Fax : 015 295-6559

Physical address : Second Floor, IDT Building, 68
Hans van Rensburg Street,
Polokwane, 0699

42.1.2 Principal agent : Durapi Consulting (Pty) Ltd

Physical Address : Unit One, 9 Biccard Street,
Polokwane
Code : 0699

Telephone : 015 295-9480

Fax : 015 295-9485

Email : manjith@durapi.co.za

42.1.3 Agent (1) : Durapi Consulting (Pty) Ltd

Agents Service : Project Management

Physical Address : Unit One, 9 Biccard Street,
Polokwane
Code : 0699

Telephone : 015 295-9480

Fax : 015 295-9485

Email : manjith@durapi.co.za

42.1.4 Agent (2) : A3 Architects

Agents Service : Architectural

Postal Address : Physical Address : Unit One, 9
Biccard Street, Polokwane
Code : 0699

Telephone : +27 11 615 6742

Fax : 015 295-9485

Email : nelson@a3architects.co.za

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42.1.5 Agent (3) : Durapi Consulting (Pty) Ltd

Agents Service : Quantity Surveying

**Physical Address : Unit One, 9 Biccadd Street,
Polokwane
Code : 0699**

Telephone : 015 295-9480

Fax : 015 295-9485

Email : manjith@durapi.co.za

42.1.6 Agent (4) :MogaleMole Consulting Engineers

**Agents Service : Electrical and Mechanical
Engineering**

**Physical Address : Unit 4 Gemini Place,Rhodesdrift
Street Bendor 0699
Code : 0699**

Telephone : 015 291-297 3556

Fax : 086 514 2484

Email : herman@mogalemole.co.za

42.1.7 Agent (5) : Onset Consulting

Agents Service : Civil and Structural Engineering

**Physical Address : 1 Marabou Avenue Fauna Park
Polokwane 0699**

Telephone : 018 462 0346

Email : siyabonga@onsetengineers.co.za

42.1.8 Agent (6) :Mhks S.H.E.R.Q Consulting

Agents Service : Health and Safety

**Physial Address : Head Office, 18 Amadeus, Lt Gert
Du Toit Streeet, Welgelegen,Polokwane,0699
Code :**

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Telephone : 076 066 4740

Email : www.mhks.co.za

CLAUSE 42.2 : CONTRACT DETAILS

42.2.1 Works Description :

New 4 Classroom Block (4 Classes). Refurbishment of 3 x 4 Classroom Blocks (12 Classes). Refurbishment of 1 x 5 Classroom Block (5 Classes). Demolish 1 x 5 Classroom Block (5 Classes). Refurbishment of 1 x 3 Grade R Classroom Block (3 Classrooms). 1 Garde R Classroom. Refurbishment of School Hall. 1 Multi-purpose Classroom. Medium Admin Block. 15 Covered and 10 Uncovered parking bays. 1.8m high Steel Palisade Fence (School Yard). 1.2m high Steel Palisade Fence (Grade R). Septic Tank. Refurbishment of 27 Enviro-loo toilets. 10 new Enviro-loo Toilets. 6 new water-borne toilets (Teacher). Provision of drilling a new borehole. Provide 70 KI water tanks and tank stand. Decanting. External works

42.2.2 Site description :

Tshembhani Primary School, Giyani Municipality

42.2.3 Works or installations by Direct Contractors :

Not Applicable

42.2.4 Specific options that are applicable to a State Organ only :

Where so :

(1) Interest Rate Legislation

Not Applicable

(2) Lateral support insurance to be effected by the Contractor

Not Applicable

(3) Payment will be made for materials and goods

No

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(4) Dispute Resolution by litigation

No

(5) Extended defects liability period applicable to the following elements

Electrical installation - 12 calendar months

42.2.5 Possession of the site is to be given on
To be advised

42.2.6 Period for the commencement of the works after the contractor takes possession of the site
Immediate, subject to agreement with the principal agent

42.2.7 For the Works as a whole :

The date for Practical Completion and the penalty per calendar day
To be advised
R5,000.00 per calendar day

42.2.8 For the Works in Sections :
The date for Practical Completion and the penalty per calendar day
Not Applicable

42.2.9 The Law applicable to this Agreement shall be that of
Republic of South Africa

CLAUSE 42.3 : INSURANCES

42.3.1 Contract Works insurance to be effected by Contractor
For the Sum of
Contract Value plus ten percent (+ 10%)
With a deductible of
Zero comma one percent (0,1%)

42.3.2 Supplementary insurance is required
Not Applicable

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<p style="text-align: right;">Brought Forward</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> <p><u>CLAUSE 42.4 : DOCUMENTS</u></p> <p><u>42.4.1 Waiver of the Contractor's lien or right of continuing possession is required</u> <u>Yes</u></p> <p><u>42.4.2 Construction document copies to be supplied to the Contractor Free of charge</u> <u>No of Three</u></p> <p><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></p> <p><u>42.4.4 On acceptance of the tender, the Bills of Quantities / Lump Sum Document is to be submitted within working days</u> <u>With the tender</u></p> <p><u>42.4.5 JBCC Engineering General Conditions of contract are to be included in the Contract Documents</u> <u>Not Applicable</u></p> <p><u>42.4.6 The Contract Value is to be adjusted using CPAP indices</u> <u>No</u></p> <p><u>Where CPAP is to be used</u> <u>Base</u> <u>Month : Not Applicable</u></p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Bill No. 1 PRELIMINARY AND GENERAL Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities</p>	<p style="text-align: center; vertical-align: top;">R</p> <hr/> <p style="text-align: center; vertical-align: top;">R</p>
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<p style="text-align: right;">Brought Forward</p> <p><u>Alternative Indices (if applicable)</u> <u>Not</u> <u>Applicable</u></p> <p><u>42.4.7 Details of changes made to the provisions of JBCC standard documentation</u> <u>[An Addendum referenced to this clause is to be attached should the space provided be insufficient]</u></p> <p><u>CLAUSE 42.0 : POST-TENDER INFORMATION</u></p> <p><u>42.5 Contract Details</u></p> <p><u>42.5.1 Contractor</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>Tax/VAT registration No :</u></p> <p><u>Physical address :</u></p> <p><u>42.5.2 The accepted contract sum (inclusive of tax)</u></p> <p><u>Amount</u></p> <p><u>In words</u></p> <p><u>42.5.3 The latest day of the month for the issue of an interim payment certificate</u> <u>Day of month</u></p> <p><u>42.5.4 The Preliminaries amounts shall be paid in terms of</u> <u>Alternative A or B</u></p> <p><u>42.5.5 The Preliminaries amounts shall be paid in terms of</u> <u>Alternative A or B</u></p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Bill No. 1 PRELIMINARY AND GENERAL Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities</p>	<p style="text-align: center; vertical-align: top;">R</p> <p style="text-align: center; vertical-align: bottom;">R</p>
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42.5.6 The payment guarantee to be effected by the Employer for the Sum of Amount

42.5.7 The Securities to be provided by the Contractor are :

(1) Variable Construction Guarantee

Yes / No

(2) Fixed Construction Guarantee

Yes / No

(3) Advance Payment Guarantee

Yes / No

42.5.8 The Annual building holiday period after the commencement of the construction period
Dates to

42.6 Documents

42.6.1 Contract documents marked and annexed hereto

Marked

Priced Bills of Quantities

Yes / No

Lump Sum Document

Yes / No

Guarantees

Yes / No

Contract drawings

Yes / No

Other Documents

Yes / No

42.6.2 Signed set of Contract Documents originals held by Principal Agent

Yes / No

If "No" held by

Postal address

Code

Telephone

Fax

E-mail

42.7 Dispute Resolution

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42.7.1 The default dispute resolution process is adjudication

42.7.2 Where adjudication is elected

(1) Adjudicator

Postal address

Code

Telephone

Fax

E-mail

or

(2) Adjudicator to be appointed by

Name body

42.7.3 Where Arbitration is elected or is required in terms of 40.5

(1) Arbitrator

Postal address

Code

Telephone

Fax

E-mail

or

(2) Arbitrator to be appointed by

Name body

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42.7.4 Where Mediation is elected in terms of 40.6

(1) Mediator

Postal address

Code

Telephone

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** _____

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	<hr/> <u>Name of signatory</u> <hr/> <u>for and behalf of the Contractor who by signature hereof warrants authorization hereto</u> <hr/> <u>Capacity of signatory</u> <hr/> <u>as Witness</u>		
	<u>PART B - PRELIMINARIES</u>		
43	CLAUSE 1.0 : DEFINITIONS AND INTERPRETATION <u>Fixed .R; Time .R.....; Value .R.....</u>	Item	
	<u>CLAUSE 2.0 : DOCUMENTS</u>		
44	2.1 Checking of documents <u>Fixed .R; Time .R.....; Value .R.....</u>	Item	
45	2.2 Provisional Bills of Quantities <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>	Item	
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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.

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.

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.

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

46 2.3 Availability of Construction Documentation

Item

Fixed .R; Time .R.....; Value .R.....

47 2.4 Interests of Agents

Item

Fixed .R; Time .R.....; Value .R.....

48 2.5 Priced Documents

Item

Fixed .R; Time .R.....; Value .R.....

49 2.6 Tender submission

Item

Fixed .R; Time .R.....; Value .R.....

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	CLAUSE 3.0 : THE SITE			
50	3.1 Defined Works Area	Item		
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
	<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>			
	<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>			
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>			
	<u>Contractors are required to do their own site investigations at their costs including topography; availability & location of services; access conditions; geotechnical founding conditions; cadastral information including boundary pegs and beacons.</u>			
53	3.4 Existing premises occupied	Item		
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
	<u>Existing premises will be occupied.</u>			
	<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>			
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	<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>			
54	3.5 Previous Work - Dimensional Accuracy	Item		
	<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>			
	<u>CLAUSE 4.0 : MANAGEMENT OF CONTRACT</u>			
61	4.1 Management of the Works	Item		
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62	4.2 Programme for the Works	Item		
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
63	4.3 Progress Meetings	Item		
	<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>			
	<u>CLAUSE 5.0 : SAMPLES AND SHOP DRAWINGS</u>			
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>			
	<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>			
	<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>			
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(i) 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.

(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.

(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.

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.

(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.

(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.

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	<p>(vi) <u>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> <p>(vii) <u>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></p> <p><u>CLAUSE 6.0 : TEMPORARY WORKS AND PLANT</u></p>		
69	6.1 Deposits and Fees	Item	
	<u>Fixed .R; Time .R.....; Value .R.....</u>		
70	6.2 Enclosure of the Works	Item	
	<u>Fixed .R; Time .R.....; Value .R.....</u>		
71	6.3 Advertising	Item	
	<u>Fixed .R; Time .R.....; Value .R.....</u>		
72	6.4 Plant, Equipment, Sheds and Offices	Item	
	<u>Fixed .R; Time .R.....; Value .R.....</u>		
73	6.5 Main Noticeboard	Item	
	<u>Fixed .R; Time .R.....; Value .R.....</u>		
74	6.6 Sub-Contractor's Noticeboard	Item	
	<u>Fixed .R; Time .R.....; Value .R.....</u>		
	<u>CLAUSE 7.0 : TEMPORARY SERVICES</u>		
75	7.1 Location	Item	
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76	7.2 Water	Item		
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
	<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>			
	<u>CLAUSE 8.0 : PRIME COST AMOUNTS</u>			
80	8.1 Responsibility for Prime Cost Amounts	Item		
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
	<u>CLAUSE 9.0 : ATTENDANCE ON N/S SUBCONTRACTORS</u>			
81	9.1 General Attendance	Item		
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
	Carried Forward		R	
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	Brought Forward		R	
	<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		
	<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>			
	<u>CLAUSE 10.0 : FINANCIAL ASPECTS</u>			
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>			
	<u>CLAUSE 11.0 : GENERAL</u>			
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		
	Carried Forward		R	
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	Brought Forward		R	
	<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		
	<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>			
	Carried Forward		R	
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	Brought Forward		R	
	<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		
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
100	11.12 Tenant Installations	Item		
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
	<u>CLAUSE 12.0 : SCHEDULE OF VARIABLES</u>			
	<u>12.1 PRE-TENDER INFORMATION</u>			
101	12.1.1 Provisional bills of quantities	Item		
	<u>The quantities are provisional</u>			
	<u>Yes</u>			
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
102	12.1.2 Availability of construction documentation	Item		
	<u>Construction documentation is complete</u>			
	<u>No</u>			
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
103	12.1.3 Interests of Agents	Item		
	<u>Nil</u>			
	<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		
	Carried Forward		R	
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	Brought Forward		R	
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
107	12.1.7 Previous Work - Dimensional Accuracy	Item		
	<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>			
	Carried Forward		R	
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	Brought Forward		R	
	<u>Fixed .R; Time .R.....; Value .R.....</u>			
117	12.1.17 Electricity	Item		
	<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>			
	Carried Forward		R	
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	Brought Forward		R
	<p><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></p> <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	<p>12.1.23 Disturbance</p> <p><u>Fixed .R; Time .R.....; Value .R.....</u></p> <p><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></p>	Item	
124	<p>12.1.24 Environmental Disturbance</p> <p><u>Fixed .R; Time .R.....; Value .R.....</u></p>	Item	
	<u>12.2 POST-TENDER INFORMATION</u>		
125	<p>12.2.1 Payment of preliminaries</p> <p><u>Fixed .R; Time .R.....; Value .R.....</u></p> <p><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></p> <p><u>Option A (prorated)</u></p>	Item	
	Carried Forward		R
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	Brought Forward		R	
	<p><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></p> <p><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></p>			
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><u>2.0 FINANCIAL ASPECTS</u></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		
	Carried Forward		R	
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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.

132 CLAUSE 2.2 : PRICING OF BILLS

Item

Fixed .R; Time .R.....; Value .R.....

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.

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.

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.

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	<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>			
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><u>3.0 INSURANCES</u></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		
	Carried Forward		R	
	<p>Section No. 1</p> <p>Bill No. 1</p> <p>PRELIMINARY AND GENERAL</p> <p>Independent Development Trust</p> <p>Tshembhani Primary School Provisional Bill of Quantities</p>			

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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.

4.0 DIRECT CONTRACTS

137 CLAUSE 4.1 : DIRECT AND SEPARATE CONTRACTS

Item

Fixed .R; Time .R.....; Value .R.....

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.

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.

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.

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	<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><u>5.0 HANDOVER, GUARANTEES AND MAINTENANCE INSTRUCTIONS / MANUALS</u></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	
	Carried Forward		R
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	Brought Forward		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><u>6.0 GENERAL</u></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	
	Carried Forward		R
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Brought Forward			R
	<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	
Carried Forward			R
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	Brought Forward		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		
	Carried Forward		R	
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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.

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.

149 CLAUSE 6.9 : ROYALTIES, PATENT RIGHTS AND FEES

Item

Fixed .R; Time .R.....; Value .R.....

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.

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.

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.

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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.

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.

150 CLAUSE 6.10 : CONTINUOUS SUPPLY OF ELECTRICITY

Item

Fixed .R; Time .R.....; Value .R.....

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.

151 7.0 INTERFERENCE WITH TRAFFIC FLOW AND NEARBY PROPERTIES

Item

Fixed .R; Time .R.....; Value .R.....

Carried Forward

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	Brought Forward			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><u>THE CONTRACTOR HEREBY:</u></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>			
	Carried Forward			R
	<p>Section No. 1 Bill No. 1 PRELIMINARY AND GENERAL Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities</p>			

Brought Forward

R

(ii) warrants that in so performing the contract works that he shall not infringe the rights of any other person.

154 Total Amount for Preliminaries and Generals

%

Carried to Final Summary

R

Section No. 1
Bill No. 1
PRELIMINARY AND GENERAL
Independent Development Trust
Tshembhani Primary School Provisional Bill of Quantities

Brought Forward

R

User note

Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions

Take note that these Model Bills of Quantities utilise abbreviated descriptions

*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. **Where such model preambles are not applicable** (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*

Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008

Proprietary items

Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items

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

On request returnable samples are to be provided to the principal agent for consideration

HINGES, BOLTS, ETC

Manufactured by Dormakaba or similar approved:

16 3 x 100mm Mild steel butterfly hinge

No

78

LOCKS

Carried Forward

R

Section No. 3

Bill No. 1

Refurbishment of Enviro loo toilets

Independent Development Trust

Tshembhani Primary School Provisional Bill of Quantities

Brought Forward			R
<p><u>Keys</u></p> <p>Unless otherwise described locks shall have two keys each</p> <p><u>"EN-SUITE" LOCKS</u></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>			
17	682-24-52 SC Three Lever lockset	No	39
<p><u>HANDLES</u></p> <p><u>Manufactured by dormakaba or similar approved:</u></p> <p><u>Lever handles:</u></p>			
18	CB30 Satin chrome lever on plate with cylinder cutout	No	39
<p><u>DOOR CLOSERS</u></p> <p><u>Manufactured by dormakaba or similar approved</u></p>			
19	75 x 150mm Natural anodised aluminium plate with male/female symbol	No	9
<p><u>SUNDRIES</u></p> <p><u>Manufactured by dormakaba or similar approved</u></p> <p><u>Door stops, coat hooks, etc.:</u></p>			
20	Stainless steel half moon door stop or similar approved, plugged and screwed to floor	No	39
<p><u>BATHROOM FITTINGS</u></p>			
Carried Forward			R
<p>Section No. 3</p> <p>Bill No. 1</p> <p>Refurbishment of Enviro loo toilets</p> <p>Independent Development Trust</p> <p>Tshembhani Primary School Provisional Bill of Quantities</p>			

Brought Forward			R
	<u>Manufactured by dormakaba or similar approved</u>		
21	Lockable 3 roll toilet holder plugged	No	18
22	Paper towel dispenser plugged	No	9
23	Wall mounted soap dispenser plugged to plastered or tiled walls	No	9
	<u>BILL NO 4: PLUMBING AND DRAINAGE (PROVISIONAL)</u>		
	<u>RAINWATER DISPOSAL</u>		
	<u>0,6mm GALVANISED SHEET STEEL GUTTERS AND RAIN WATER PIPES</u>		
	<u>SANITARY FITTINGS</u>		
24	Toilet bowl, seat and lid	No	26
25	Outlet vent pipe	No	36
26	Ventilation extraction unit	No	36
27	Vent wall bracket	No	36
28	Urinals	No	35
29	Air inlet pipes	No	36
30	Concrete water trough	No	9
	<u>'Vaal Sanitaryware' vitreous china wash hand basins and pedestals:</u>		
31	455 x 290mm 'Bantam' white vitreous china cloakroom basin (product code 7030) with two tap holes, including integrated overflow and chainstay hole, and 2 no. 'Star' pillar-taps, bolted to wall with two 10mm bolts (product code 8448Z0).	No	4.00
	<u>TAPS, VALVES, ETC</u>		
	Carried Forward		R
Section No. 3 Bill No. 1 Refurbishment of Enviro loo toilets Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

[illegible]

Brought Forward

R

User note

Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions

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Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008

Float glass

The term "float glass" is used for monolithic annealed glass

Laminated glass

Laminated glass to have polyvinyl butyral (PVB) interlayer(s)

GLAZING TO STEEL WITH PUTTY

5mm Clear Float glass

35 5mm Clear Float glass fixed with glazing putty exceeding 0.1m² and not exceeding 0.5m² square metre in area

m2

26

TOPS, SHELVES, DOORS, MIRRORS, ETC

Carried Forward

R

Section No. 3

Bill No. 1

Refurbishment of Enviro loo toilets

Independent Development Trust

Tshembhani Primary School Provisional Bill of Quantities

Brought Forward

R

4mm Silvered float glass copper backed mirrors with
polished edges, holed for and fixed with chromium
plated dome capped mirror screws with rubber buffers to
plugs in brickwork or concrete

36 Mirror 400 x 600mm high

No

18

Carried to Final Summary

R

Section No. 3
Bill No. 1
Refurbishment of Enviro loo toilets
Independent Development Trust
Tshembhani Primary School Provisional Bill of Quantities

Item No		Quantity	Rate	Amount
	<p><u>BILL NO 1</u></p> <p><u>ALTERATIONS</u></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. <u>Where such model preambles are not applicable</u> (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>View site</u></p> <p>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</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for alteration purposes unless otherwise stated</p>			
	<p style="text-align: right;">Carried Forward</p>		R	
	<p>Section No. 4 Bill No. 1 Refurbishment of Guard House Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities</p>			

Brought Forward

R

General

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

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

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

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc

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

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary

The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)

Carried Forward

R

Section No. 4

Bill No. 1

Refurbishment of Guard House

Independent Development Trust

Tshembhani Primary School Provisional Bill of Quantities

Brought Forward			R	
<u>REMOVAL OF EXISTING WORK</u>				
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>				
1	Gypsum plasterboard ceilings, including timber bandering, cornices, etc	m2	16	
2	Fascias and barge boards	m	18	
<u>Taking out and removing sundry joinery work, fittings, etc,</u>				
3	Gypsum coved cornices	m	21	
<u>Taking out/off and removing glass and mirrors</u>				
4	Glass from steel windows, including cleaning out rebates and preparing for new glass	m2	3	
<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>				
5	Internal plaster from walls and columns	m2	33	
<u>Making good cement screeds</u>				
6	New screed on floors	m2	16	
<u>BILL NO 2: CEILINGS, PARTITIONS AND ACCESS FLOORING</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>TIMBER</u>				
<u>: All softwood to be South African Pine</u>				
<u>CEILINGS</u>				
<u>Mineral wool insulation or similar approved</u>				
7	Cellulose ceiling insulation laid loose over ceiling in roof void	m2	16.00	
Carried Forward			R	
Section No. 4 Bill No. 1 Refurbishment of Guard House Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

Brought Forward			R
<u>6mm "Cladit" fibre-cement ceilings boards or similar approved (Architect to advise)</u>			
8	Ceilings including H-type pressed steel jointing strips and 38 x 38mm sawn softwood branderling at 400mm centres in one direction and around edges where required for fixing cornices, securely spiked to roof timbers	m2	16.00
9	Extra over fibre-cement ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	1.00
<u>"Rhino" Gypsum plasterboard cornices</u>			
10	75mm Coved cornices	m	21.00
<u>BILL NO 3: CARPENTRY AND JOINERY</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>FASCIAS AND BARGEBOARDS</u>			
<u>Tempered fibre-cement</u>			
11	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	18.00
<u>SKIRTINGS</u>			
<u>Wrought Meranti</u>			
12	19 x 76mm Skirting nailed to walls with heads of nails punched and filled including 19mm quadrant bead planted on at junction with floor	m	12.00
<u>BILL NO 4: 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>(3:1) CEMENT SCREEDS TO CONCRETE</u>			
Carried Forward			R
Section No. 4 Bill No. 1 Refurbishment of Guard House Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

	Brought Forward			R
	<u>25mm Thick</u>			
13	On floors to receive vinyl or ceramic floor tiles (elsewhere measured)	m2	16.00	
	<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>			
14	On walls	m2	33.00	
	<u>BILL NO 5: 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>			
	<u>FLOOR TILES</u>			
	<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>			
15	On floors	m2	16.00	
16	Skirting 100mm high	m2	12.00	
	<u>Fire appliances, etc.</u>			
17	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	1.00	
	<u>BILL NO 6: GLAZING</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. 4 Bill No. 1 Refurbishment of Guard House Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

	Brought Forward			R	
	<u>Glass in steel fixed with putty</u>				
	<u>6mm Clear Float</u>				
18	6mm Clear float sheet glazing not exceeding 1m ² secured in frame with natural anodised aluminium glazing beads according to manufacturer's specification	m2	2.00		
	<u>BILL NO 7: PAINTWORK</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>PAINT ON PLASTER, ETC.</u>				
	<u>Prepare and apply one merit universal undercoat and two coats "Polvin" super acrylic PVA paint</u>				
19	On walls	m2	33.00		
	<u>PAINT ON FIBRE CEMENT</u>				
	<u>Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use</u>				
20	On external fibre-cement fascias and bargeboards including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	4.00		
	<u>PAINT ON GYPSUM SURFACES</u>				
	<u>Prepare, stop and apply two full coats semi-gloss PVA co-polymer paint to comply with SABS Specification No. 643</u>				
21	On internal plasterboard ceilings including priming steel joints and nail heads with one coat zinc phosphate alkyd resin primer	m2	16.00		
	<u>PAINT ON WOOD</u>				
	<u>Prepare, stop and apply two full coats polyurethane clear eggshell varnish, lightly sanded down between coats</u>				
22	On skirtings, rails, etc. not exceeding 300mm girth	m	12.00		
	Carried to Final Summary			R	
	Section No. 4				
	Bill No. 1				
	Refurbishment of Guard House				
	Independent Development Trust				
	Tshembhani Primary School Provisional Bill of Quantities				

Item No		Quantity	Rate	Amount
	<p><u>BILL NO 1</u></p> <p><u>ALTERATIONS</u></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. <u>Where such model preambles are not applicable</u> (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>View site</u></p> <p>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</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for alteration purposes unless otherwise stated</p>			
	<p style="text-align: right;">Carried Forward</p>		R	
	<p>Section No. 5 Bill No. 1 Refurbishment of School Hall Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities</p>			

Brought Forward

R

General

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

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

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

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc

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

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary

The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)

Carried Forward

R

Section No. 5

Bill No. 1

Refurbishment of School Hall

Independent Development Trust

Tshembhani Primary School Provisional Bill of Quantities

Brought Forward			R	
<u>REMOVAL OF EXISTING WORK</u>				
<u>Breaking up and removing reinforced concrete, including cutting off and removing reinforcement</u>				
1	Stairs and landings	m3	8	
<u>Taking out and removing sundry joinery work, fittings, etc.</u>				
2	Gypsum coved cornices	m	78	
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>				
3	Gypsum plasterboard ceilings, including timber bandering, cornices, etc	m2	186	
<u>Making good cement screeds</u>				
4	New screed on floors	m2	174	
<u>BILL NO 2: CEILINGS, PARTITIONS AND ACCESS FLOORING</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>TIMBER</u>				
<u>: All softwood to be South African Pine</u>				
<u>CEILINGS</u>				
<u>Mineral wool insulation or similar approved</u>				
5	Cellulose ceiling insulation laid loose over ceiling in roof void	m2	186.00	
<u>6mm "Cladit" fibre-cement ceilings boards or similar approved (Architect to advise)</u>				
6	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	186.00	
Carried Forward			R	
Section No. 5 Bill No. 1 Refurbishment of School Hall Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

Brought Forward			R
7	Extra over fibre-cement ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	2.00
	<u>"Rhino" Gypsum plasterboard cornices</u>		
8	75mm Coved cornices	m	78.00
	<u>BILL NO 3: 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>(3:1) CEMENT SCREEDS TO CONCRETE</u>		
	<u>25mm Thick</u>		
9	On floors to receive vinyl or ceramic floor tiles (elsewhere measured)	m2	186.00
	<u>BILL NO 4: 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>		
	<u>FLOOR TILES</u>		
	<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>		
10	On floors	m2	186.00
11	Skirting 100mm high	m2	49.00
	<u>BILL NO 5: PAINTWORK</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 School Hall Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Brought Forward

R

PAINT ON GYPSUM SURFACES

**Prepare, stop and apply two full coats semi-gloss
PVA co-polymer paint to comply with SABS
Specification No. 643**

12	Ceilings and cornices, including priming metal cover strips and nailheads ("White" colour group)	m2	186
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Carried to Final Summary

R

Section No. 5
Bill No. 1
Refurbishment of School Hall
Independent Development Trust
Tshembhani Primary School Provisional Bill of Quantities

Item No		Quantity	Rate	Amount
	<p><u>BILL NO 1</u></p> <p><u>ALTERATIONS</u></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. <u>Where such model preambles are not applicable</u> (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>View site</u></p> <p>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</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for alteration purposes unless otherwise stated</p>			
	<p style="text-align: right;">Carried Forward</p>		R	
	<p>Section No. 6 Bill No. 1 Refurbishment of Grade R Classroom Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities</p>			

Brought Forward

R

General

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

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

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

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc

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

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary

The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)

Carried Forward

R

Section No. 6

Bill No. 1

Refurbishment of Grade R Classroom

Independent Development Trust

Tshembhani Primary School Provisional Bill of Quantities

Brought Forward			R	
<u>REMOVAL OF EXISTING WORK</u>				
<u>Taking out and removing sundry joinery work, fittings, etc.</u>				
1	Timber skirtings	m	91	
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>				
2	Fascias and barge boards	m	52	
3	Eaves gutters including brackets	m	52	
<u>BUILDING UP OPENINGS</u>				
<u>Sundries</u>				
4	Cutting toothings and bonding new brickwork to existing	m2	2	
<u>BILL NO 2: CARPENTRY AND JOINERY</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>FASCIAS AND BARGEBOARDS</u>				
<u>Tempered fibre-cement</u>				
5	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	52.00	
<u>SKIRTINGS</u>				
<u>Wrought Meranti</u>				
6	19 x 76mm Skirting nailed to walls with heads of nails punched and filled including 19mm quadrant bead planted on at junction with floor	m	91.00	
<u>BILL NO 3: PLUMBING AND DRAINAGE (PROVISIONAL)</u>				
Carried Forward			R	
Section No. 6 Bill No. 1 Refurbishment of Grade R Classroom Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

Brought Forward			R	
NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill				
<u>RAINWATER DISPOSAL</u>				
<u>0.58mm Galvanized sheet iron with Chromadek finish to match roof sheeting:</u>				
7	100 x 75mm Eaves gutters with beaded front edge.	m	52.00	
<u>BILL NO 4: PAINTWORK</u>				
NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill				
<u>PAINT ON FIBRE CEMENT</u>				
<u>Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use</u>				
8	On external fibre-cement fascias and bargeboards including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	12.00	
<u>PAINT ON METAL</u>				
<u>Prepare, touch up factory primer and apply one coat universal undercoat and two full coats high gloss enamel paint</u>				
9	Eaves gutters not exceeding 300mm girth	m	52	
<u>PAINT ON WOOD</u>				
<u>Prepare, stop and apply two full coats polyurethane clear eggshell varnish, lightly sanded down between coats</u>				
10	On skirtings, rails, etc. not exceeding 300mm girth	m	91.00	
Carried to Final Summary			R	
Section No. 6 Bill No. 1 Refurbishment of Grade R Classroom Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

Item No		Quantity	Rate	Amount
	<p><u>BILL NO 1</u></p> <p><u>ALTERATIONS</u></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. <u>Where such model preambles are not applicable</u> (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>View site</u></p> <p>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</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for alteration purposes unless otherwise stated</p>			
	<p style="text-align: right;">Carried Forward</p>		R	
	<p>Section No. 7 Bill No. 1 Refurbishment of 1 x 5 Classroom Block (5 Classrooms) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities</p>			

Brought Forward

R

General

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

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

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

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc

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

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary

The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)

Carried Forward

R

Section No. 7

Bill No. 1

Refurbishment of 1 x 5 Classroom Block (5 Classrooms)

Independent Development Trust

Tshembhani Primary School Provisional Bill of Quantities

Brought Forward			R
<u>REMOVAL OF EXISTING WORK</u>			
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>			
1	Gypsum plasterboard ceilings, including timber bandering, cornices, etc	m2	369
<u>Taking out and removing sundry joinery work, fittings, etc.</u>			
2	Gypsum coved cornices	m	233
<u>Taking out/off and removing glass and mirrors</u>			
3	Glass from steel windows, including cleaning out rebates and preparing for new glass	m2	60
<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>			
4	Internal plaster from walls and columns	m2	396
<u>Breaking up and removing reinforced concrete, including cutting off and removing reinforcement</u>			
5	Concrete apron slab	m3	11
<u>Making good cement screeds</u>			
6	New screed on floors	m2	282
<u>BILL NO 2: CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 20MPa at 28 days</u>			
7	In aprons slabs	m3	11.00
<u>REINFORCEMENT</u>			
<u>Fabric reinforcement</u>			
8	Chicken mesh reinforcement in walls, etc	m2	396.00
Carried Forward			R
Section No. 7 Bill No. 1 Refurbishment of 1 x 5 Classroom Block (5 Classrooms) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

	Brought Forward			R	
9	Type 395 fabric reinforcement in concrete surface beds, etc.	m2	102.00		
	<u>BILL NO 3: WATERPROOFING</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>Two coats heavy duty acrylic emulsion paint</u>				
10	On waterproofing to roofs including fixing nails, etc	m2	481		
	<u>BILL NO 4: CARPENTRY AND JOINERY</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>FASCIAS AND BARGEBOARDS</u>				
	<u>Tempered fibre-cement</u>				
11	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	95.00		
	<u>SKIRTINGS</u>				
	<u>Wrought Meranti</u>				
12	19 x 76mm Skirting nailed to walls with heads of nails punched and filled including 19mm quadrant bead planted on at junction with floor	m	145.00		
	<u>THE FOLLOWING IN PINNING BOARDS</u>				
	<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</u>				
	<u>Pinning boards</u>				
13	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	5.00		
	Carried Forward			R	
	Section No. 7 Bill No. 1 Refurbishment of 1 x 5 Classroom Block (5 Classrooms) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

Brought Forward			R	
<u>BILL NO 5: 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>(3:1) CEMENT SCREEDS TO CONCRETE</u>				
<u>25mm Thick</u>				
14	On floors to receive vinyl or ceramic floor tiles (elsewhere measured)	m2	282.00	
<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>				
15	On walls	m2	396.00	
<u>BILL NO 6: 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>				
<u>FLOOR TILES</u>				
<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>				
16	On floors	m2	282.00	
17	Skirting 100mm high	m2	145.00	
<u>BILL NO 7: PLUMBING AND DRAINAGE (PROVISIONAL)</u>				
Carried Forward			R	
Section No. 7 Bill No. 1 Refurbishment of 1 x 5 Classroom Block (5 Classrooms) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

Brought Forward			R
NOTE : Tenderers are advised to study the <u>"Specification of Materials and Methods to be used"</u> <u>(OOG-001E) before pricing this bill</u>			
<u>RAINWATER DISPOSAL</u>			
<u>0.58mm Galvanized sheet iron with Chromadek</u> <u>finish to match roof sheeting:</u>			
18	100 x 75mm Eaves gutters with beaded front edge.	m	95.00
19	Extra over eaves gutter for angle.	No	10.00
20	Extra over eaves gutter for outlet for 100 x 75mm pipe.	No	10.00
21	100 x 75mm Rainwater pipe.	m	27.00
22	Extra over rainwater pipe for shoe.	No	10.00
23	Extra over rainwater pipe for eaves or plinth offset 600mm projection.	No	10.00
<u>Fire appliances, etc.</u>			
24	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	5.00
<u>BILL NO 8: GLAZING</u>			
NOTE : Tenderers are advised to study the <u>"Specification of Materials and Methods to be used"</u> <u>(OOG-001E) before pricing this bill</u>			
<u>Glass in steel fixed with putty</u>			
25	5mm Clear Float glass fixed with glazing putty exceeding 2m ² and not exceeding 4m ² square metre in area	m2	60.00
<u>BILL NO 9: PAINTWORK</u>			
NOTE : Tenderers are advised to study the <u>"Specification of Materials and Methods to be used"</u> <u>(OOG-001E) before pricing this bill</u>			
Carried Forward			R
Section No. 7 Bill No. 1 Refurbishment of 1 x 5 Classroom Block (5 Classrooms) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

	Brought Forward			R	
	<u>PAINT ON PLASTER, ETC.</u>				
	<u>Prepare and apply one merit universal undercoat and two coats "Polvin" super acrylic PVA paint</u>				
26	On walls	m2	396.00		
	<u>PAINT ON FIBRE CEMENT</u>				
	<u>Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use</u>				
27	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		
	<u>PAINT ON GYPSUM SURFACES</u>				
	<u>Prepare, stop and apply two full coats semi-gloss PVA co-polymer paint to comply with SABS Specification No. 643</u>				
28	On internal plasterboard ceilings including priming steel joints and nail heads with one coat zinc phosphate alkyd resin primer	m2	396.00		
	<u>PAINT ON METAL</u>				
	<u>Prepare, touch up factory primer and apply one coat universal undercoat and two full coats high gloss enamel paint</u>				
29	On sashes and frames with burglar bars (both sides measured)	m2	60.00		
30	Eaves gutters not exceeding 300mm girth	m	95		
	<u>PAINT ON WOOD</u>				
	<u>Prepare, stop and apply two full coats polyurethane clear eggshell varnish, lightly sanded down between coats</u>				
31	On skirtings, rails, etc. not exceeding 300mm girth	m	145.00		
	Carried to Final Summary			R	
	Section No. 7				
	Bill No. 1				
	Refurbishment of 1 x 5 Classroom Block (5 Classrooms)				
	Independent Development Trust				
	Tshembhani Primary School Provisional Bill of Quantities				

Item No		Quantity	Rate	Amount
	<p><u>3 X 4 CLASSROOMS (12 CLASSROOMS)</u></p> <p><u>BILL NO 1</u></p> <p><u>ALTERATIONS</u></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. <u>Where such model preambles are not applicable</u> (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>View site</u></p> <p>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</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for alteration purposes unless otherwise stated</p>			
	<p style="text-align: right;">Carried Forward</p>		R	
	<p>Section No. 8</p> <p>Bill No. 1</p> <p>Refurbish 3 x 4 Classrooms (12 Classrooms)</p> <p>Independent Development Trust</p> <p>Tshembhani Primary School Provisional Bill of Quantities</p>			

Brought Forward

R

General

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

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

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

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc

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

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary

The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)

Carried Forward

R

Section No. 8

Bill No. 1

Refurbish 3 x 4 Classrooms (12 Classrooms)

Independent Development Trust

Tshembhani Primary School Provisional Bill of Quantities

Brought Forward			R	
<u>REMOVAL OF EXISTING WORK</u>				
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>				
1	Fascias and barge boards	m	247	
2	Eaves gutters including brackets	m	247	
3	Downpipes including brackets, etc.	m	32	
4	Gypsum plasterboard ceilings, including timber bandering, cornices, etc	m2	174	
<u>Taking out and removing sundry joinery work, fittings, etc.</u>				
5	Gypsum coved cornices	m	250	
6	Timber skirtings	m	242	
<u>Taking out/off and removing glass and mirrors</u>				
7	Glass from steel windows, including cleaning out rebates and preparing for new glass	m2	120	
<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>				
8	Internal plaster from walls and columns	m2	660	
<u>Making good face brickwork</u>				
9	Faces of external walls by cleaning existing paint and repainting including the painting face brick walls by applying brick dressing	m2	444	
<u>Making good cement screeds</u>				
10	New screed on floors	m2	488	
<u>Breaking up and removing reinforced concrete, including cutting off and removing reinforcement</u>				
11	Concrete apron slab	m3	16	
Carried Forward			R	
Section No. 8				
Bill No. 1				
Refurbish 3 x 4 Classrooms (12 Classrooms)				
Independent Development Trust				
Tshembhani Primary School Provisional Bill of Quantities				

Brought Forward			R
<p>NOTE : Tenderers are advised to study the <u>"Specification of Materials and Methods to be used"</u> <u>(OOG-001E) before pricing this bill</u></p> <p><u>Foundation brickwork and concrete walls have been measured to top of unfinished floor level</u></p> <p><u>BILL NO 2: CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p>NOTE : Tenderers are advised to study the <u>"Specification of Materials and Methods to be used"</u> <u>(OOG-001E) before pricing this bill</u></p> <p><u>REINFORCEMENT</u></p> <p><u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 20MPa at 28 days</u></p>			
12	In aprons slabs	m3	32.00
<u>Fabric reinforcement</u>			
13	Chicken mesh reinforcement in walls, etc	m2	660.00
14	Type 395 fabric reinforcement in concrete surface beds, etc.	m2	308.00
<u>BILL NO 3: MASONRY</u>			
<p>NOTE : Tenderers are advised to study the <u>"Specification of Materials and Methods to be used"</u> <u>(OOG-001E) before pricing this bill</u></p> <p><u>AIR BRICKS</u></p>			
15	200 x 200mm Terra-cotta vermin proof air brick with gauze backing and building into opening in brickwork in cement mortar	No	32.00
<u>BILL NO 4: WATERPROOFING</u>			
<p>NOTE : Tenderers are advised to study the <u>"Specification of Materials and Methods to be used"</u> <u>(OOG-001E) before pricing this bill</u></p>			
Carried Forward			R
<p>Section No. 8 Bill No. 1 Refurbish 3 x 4 Classrooms (12 Classrooms) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities</p>			

	Brought Forward			R
	<u>Two coats heavy duty acrylic emulsion paint</u>			
16	On waterproofing to roofs including fixing nails, etc	m2	837	
	<u>BILL NO 5: CARPENTRY AND JOINERY</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>FASCIAS AND BARGEBOARDS</u>			
	<u>Tempered fibre-cement</u>			
17	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	247.00	
	<u>SKIRTINGS</u>			
	<u>Wrought Meranti</u>			
18	19 x 76mm Skirting nailed to walls with heads of nails punched and filled including 19mm quadrant bead planted on at junction with floor	m	242.00	
	<u>DOORS</u>			
	<u>NOTE</u> <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>			
	<u>JOINERY FITTINGS</u>			
	<u>THE FOLLOWING IN PINNING BOARDS</u>			
	<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</u>			
	Carried Forward			R
	Section No. 8 Bill No. 1 Refurbish 3 x 4 Classrooms (12 Classrooms) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Brought Forward			R
<u>Pinning boards</u>			
19	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	8.00
<u>Interactive Whiteboard</u>			
20	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	8.00
<u>BILL NO 6: CEILINGS, PARTITIONS AND ACCESS FLOORING</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>TIMBER</u>			
<u>: All softwood to be South African Pine</u>			
<u>CEILINGS</u>			
<u>Mineral wool insulation or similar approved</u>			
21	Cellulose ceiling insulation laid loose over ceiling in roof void	m2	725.00
<u>6mm "Cladit" fibre-cement ceilings boards or similar approved (Architect to advise)</u>			
22	Ceilings including H-type pressed steel jointing strips and 38 x 38mm sawn softwood banderling at 400mm centres in one direction and around edges where required for fixing cornices, securely spiked to roof timbers	m2	725.00
23	Extra over fibre-cement ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	8.00
Carried Forward			R
Section No. 8 Bill No. 1 Refurbish 3 x 4 Classrooms (12 Classrooms) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

		Brought Forward			R
		<u>"Rhino" Gypsum plasterboard cornices</u>			
24	75mm Coved cornices	m	250.00		
		<u>BILL NO 7: IRONMONGERY</u>			
		<u>NOTE</u>			
		<u>: Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u>			
		<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>NUMERAL AND NAME PLATES</u>			
		<u>Indicator plates countersunk holed for and screwed to door or brickwork with chromium plated dome-headed screws</u>			
25	190 x 190 x 3mm Thick white perspex international FB2 sign plate with red fire extinguisher symbol plugged to brickwork	No	4.00		
		<u>BILL NO 8: 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>(3:1) CEMENT SCREEDS TO CONCRETE</u>			
		<u>25mm Thick</u>			
26	On floors to receive vinyl or ceramic floor tiles (elsewhere measured)	m2	488.00		
		<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>			
27	On walls	m2	660.00		
		Carried Forward			R
	Section No. 8				
	Bill No. 1				
	Refurbish 3 x 4 Classrooms (12 Classrooms)				
	Independent Development Trust				
	Tshembhani Primary School Provisional Bill of Quantities				

		Brought Forward			R
28	On narrow widths	m2	30.00		
	<u>BILL NO 9: 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>				
	<u>FLOOR TILES</u>				
	<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>				
29	On floors	m2	488.00		
30	Skirting 100mm high	m2	242.00		
	<u>BILL NO 10: PLUMBING AND DRAINAGE (PROVISIONAL)</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>RAINWATER DISPOSAL</u>				
	<u>0.58mm Galvanized sheet iron with Chromadek finish to match roof sheeting:</u>				
31	100 x 75mm Eaves gutters with beaded front edge.	m	247.00		
32	Extra over eaves gutter for angle.	No	12.00		
33	Extra over eaves gutter for outlet for 100 x 75mm pipe.	No	12.00		
34	100 x 75mm Rainwater pipe.	m	32.00		
35	Extra over rainwater pipe for shoe.	No	12.00		
36	Extra over rainwater pipe for eaves or plinth offset 600mm projection.	No	12.00		
	<u>Carried Forward</u>				R
	Section No. 8				
	Bill No. 1				
	Refurbish 3 x 4 Classrooms (12 Classrooms)				
	Independent Development Trust				
	Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward			R	
	<u>Fire appliances, etc.</u>				
37	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	8.00		
	<u>BILL NO 11: GLAZING</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>Glass in steel fixed with putty</u>				
38	5mm Clear Float glass fixed with glazing putty exceeding 2m ² and not exceeding 4m ² square metre in area	m2	120.00		
	<u>BILL NO 12: PAINTWORK</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>PAINT ON PLASTER, ETC.</u>				
	<u>Prepare and apply one merit universal undercoat and two coats "Polvin" super acrylic PVA paint</u>				
39	On walls	m2	660.00		
	<u>PAINT ON FIBRE CEMENT</u>				
	<u>Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use</u>				
40	On external fibre-cement fascias and bargeboards including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	57.00		
	<u>PAINT ON GYPSUM SURFACES</u>				
	Carried Forward			R	
	Section No. 8 Bill No. 1 Refurbish 3 x 4 Classrooms (12 Classrooms) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

Brought Forward			R
<u>Prepare, stop and apply two full coats semi-gloss PVA co-polymer paint to comply with SABS Specification No. 643</u>			
41	On internal plasterboard ceilings including priming steel joints and nail heads with one coat zinc phosphate alkyd resin primer	m2	725.00
<u>PAINT ON METAL</u>			
<u>Prepare, touch up factory primer and apply one coat universal undercoat and two full coats high gloss enamel paint</u>			
42	On sashes and frames with burglar bars (both sides measured)	m2	120.00
43	Eaves gutters not exceeding 300mm girth	m	247
<u>PAINT ON WOOD</u>			
<u>Prepare, stop and apply two full coats polyurethane clear eggshell varnish, lightly sanded down between coats</u>			
44	On skirtings, rails, etc. not exceeding 300mm girth	m	242.00
Carried to Final Summary			R
Section No. 8 Bill No. 1 Refurbish 3 x 4 Classrooms (12 Classrooms) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 1</u>			
	<u>ENVIROLOO TOILETS (ALL TRADES BILL)</u>			
	PREAMBLESFor preambles refer to Specification of Materials and Method to be used			
	<u>SITE CLEARANCE ETC</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	38	
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m2	38	
	<u>EXCAVATIONS, FILLING, ETC, OTHER THAN BULK</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Pit	m3	11	
	<u>Excavation in earth not exceeding 2m deep</u>			
4	Trenches	m3	18	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
5	Soft rock	m3	2	
6	Hard rock	m3	1	
	<u>Extra over all excavations for carting away</u>			
7	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	9	
	<u>Risk of collapse of excavations</u>			
8	Sides of trench and hole excavations not exceeding 1,5m deep	m2	45	
	Carried Forward		R	
	Section No. 9 Bill No. 1 1 x 2 Enviro Loo Toilets (2 Toilets) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

	Brought Forward			R	
9	Sides of trench and pit excavations exceeding 1,5m deep	m2	12		
	<u>Keeping excavations free of water</u>				
10	Keeping excavations free of water		Item		
	<u>Earth filling obtained from the excavations on site and compacted to 93% Mod AASHTO density</u>				
11	Backfilling to trenches, holes, etc	m3	10		
12	Under floors, steps, paving etc,.	m3	6		
	<u>Compaction of surfaces</u>				
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	29		
	<u>Approved soil insecticide</u>				
14	Under floors etc including forming and poisoning V-shaped channels against foundation walls etc, filling in channels and ramming	m2	29		
15	To bottom and sides of trenches, holes etc	m2	57		
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
	<u>Test Blocks</u>				
16	Making of 150 x 150 x 150mm concrete strength test cube, label and send to an approved laboratory for testing, including paying all charges and submit report to the Agent. (only successful tests will be paid for)	No	2		
	<u>REINFORCED CONCRETE</u>				
	<u>25MPa/19mm concrete</u>				
17	Strip footings	m3	3		
	Carried Forward			R	
	Section No. 9 Bill No. 1 1 x 2 Enviro Loo Toilets (2 Toilets) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

Brought Forward			R
<u>20MPa/19mm concrete</u>			
18	Thickening under surface bed	m3	3
19	Surface beds in pit	m3	12
20	In surface beds cast to falls	m3	3
21	In aprons/pavings/ramps cast in panels	m3	3
22	Slabs	m3	4
<u>SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a woodfloat</u>			
23	Aprons, pavings, ramps, etc	m2	25
<u>Finishing top surfaces of concrete with a steel trowel</u>			
24	Surface beds, slabs, etc.	m2	29
<u>FORMWORK</u>			
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>			
<u>Rough formwork to</u>			
25	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	56
<u>Permanent formwork to soffits</u>			
26	Corrugated iron sheets as permanent formwork	m2	7
27	Form 450mm diameter opening in floor slab	No	4
<u>REINFORCEMENT</u>			
<u>Fabric reinforcement</u>			
28	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	29
Carried Forward			R
Section No. 9 Bill No. 1 1 x 2 Enviro Loo Toilets (2 Toilets) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

	Brought Forward			R	
	<u>Steel reinforcement to structural concrete work</u>				
29	All diameter bars	t	3.47		
	<u>Concrete water trough</u>				
30	Water trough	No	1		
	<u>BRICKWORK IN FOUNDATIONS</u>				
	<u>(PROVISIONAL)</u>				
	<u>Brickwork of NFX bricks (14MPa nominal compressive strenght) in class I mortar in foundations</u>				
31	One brick walls	m2	15		
	<u>Wall cavity</u>				
32	330mm wide brick retaining wall filled with reinforced concrete	m2	15		
	<u>Brickwork reinforcement</u>				
33	150mm Wide reinforcement built in horizontally	m	88		
	<u>FACE BRICKWORK</u>				
	<u>Equal and approved facebricks to match existing pointed with recessed horizontal and vertical joints</u>				
34	Extra over brickwork for face brickwork	m2	15		
	<u>INTERNAL PLASTER</u>				
	<u>Cement plaster on brickwork;</u>				
35	On walls in pit	m2	17		
	<u>FLOOR AND WALL SEALERS</u>				
	<u>Minimum two coats 'approved' black epoxy coat:Cement plaster on brickwork;</u>				
36	On internal textured plaster walls	m2	17		
	<u>SUPERSTRUCTURE</u>				
	Carried Forward			R	
	Section No. 9				
	Bill No. 1				
	1 x 2 Enviro Loo Toilets (2 Toilets)				
	Independent Development Trust				
	Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward			R	
	<u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in class I mortar</u>				
37	Half brick walls in beamfilling	m2	6		
38	Half brick walls	m2	9		
39	One brick walls	m2	50		
	<u>Brickwork reinforcement</u>				
40	75mm Wide reinforcement built in horizontally	m	26		
41	150mm Wide reinforcement built in horizontally	m	165		
	<u>Turning pieces</u>				
42	115mm Wide turning pieces to lintels etc	m	5		
	<u>Galvanised wire ties etc</u>				
43	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	38		
	<u>Prestressed fabricated lintels</u>				
44	110mm x 70mm Lintel not exceeding 3m long, hoisted into position and laid over opening in brick wall with ends bedded in class II mortar	m	5		
	<u>FACE BRICKWORK</u>				
45	half brick walls	m2	9		
46	Extra over brickwork for face brickwork	m2	50		
47	Extra over brickwork for facing beamfilling.	m2	6		
	<u>Brick-on-edge header course copings, sills, etc of face bricks pointed with recessed joints on all exposed faces</u>				
48	Extra over brickwork for brick-on-edge header course lintel pointed on face and 110mm soffit	m	5		
49	Extra over brickwork for brick-on-edge 100mm wide sill set sloping and slightly projecting	m	4		
	Carried Forward			R	
	Section No. 9 Bill No. 1 1 x 2 Enviro Loo Toilets (2 Toilets) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward			R
	<u>Air bricks etc</u>			
50	1085 x 2000mm Clay vermin proof air brick	No	2	
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of type 375 micron Consol Plastics Brikrip DPC or equal and approved embossed damp proof course</u>			
51	In walls	m2	5	
	<u>Polyolefin 0,25mm damp proof membrane sheeting complying with SABS 952, Type C in widest practicable widths with all joints lapped 200mm and sealed in accordance with the manufacturer's instruction</u>			
52	Under surface beds	m2	36	
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,8mm Colomet "IBR" roof sheet in single lengths fixed to timber purlins.</u>			
53	Roof covering with pitches not exceedin 25 degrees	m2	39	
54	450mm girth Galvanised metal ridge capping with 225mm lapping.	m	6	
	<u>ROOF AND WALL INSULATION</u>			
	<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>			
	<u>Non-combustible fibreglass insulation of a density of not less than 10kg/m3 bonded with an inert thermo-setting</u>			
55	100mm non-combustible lightweight fiberglass insulation blanket fitted between tie beams and laid loose on top of brandering underlay dressed over bottom purlin into gutter	m2	39	
	Carried Forward			R
	Section No. 9 Bill No. 1 1 x 2 Enviro Loo Toilets (2 Toilets) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

		Brought Forward			R
		<u>ROOFS CONSTRUCTION</u>			
56	Roof construction over Enviro-loo toilet building approximate flat area, 33m ² on plan complete including trusses, jack rafters, bracing and hoisting into position approximately 2,5m high above floor level all in accordance with the Architects drawings at the back of these bills of quantities.	No	1		
		<u>Sundries</u>			
57	Two coats creosote on sawn timbers	m2	6		
		<u>EAVES, VERGES, ETC</u>			
		<u>"Everite FC77" pressed fibre-cement</u>			
58	12 x 225mm Pressed fibre-cement fascia with pvc jointers fixed to rafter ends with adequate screws	m	19		
		<u>TIMBER DOORS, WINDOWS, ETC</u>			
		<u>DOORS ETC</u>			
	<u>Semi-solid medium dutty flush panel door leaf. 40mm thick with masonite veneer faces suitable for painting and edges to match veneer.</u>				
59	Code DS23A Standard Semi-solid medium dutty flush panel door leaf. 40mm thick with masonite veneer faces suitable for painting and edges to match veneer. Size 813 x 2032mm	No	2		
	<u>Solid meranti framed, ledged and braced batten doors with masonite veneer to internal face suitable for painting (painting elsewhere measured)</u>				
60	Code DS54B Purpose Made Solid Meranti Framed, ledged and braced batten door leafs. 40mm thick with masonite veneer on inside face suitable for painting or varnishing as per finishing schedule. With rebated meeting styles. Size 914 x 2032mm	No	1		
		<u>INSULATION</u>			
		Carried Forward			R
	Section No. 9 Bill No. 1 1 x 2 Enviro Loo Toilets (2 Toilets) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

Brought Forward			R
<u>Aerolite insulation.</u>			
61	50mm Insulation closely fitted and laid on top of brandering, between roof timbers.	m2	29
<u>FIBRE CEMENT CEILINGS</u>			
<u>6mm "Nu-tec" pressed fibre-cement boards with H-type pressed steel jointing strips</u>			
62	Ceiling boarding secured horizontally to and including 38mm x 50mm timber brandering at 400mm centres in one direction including coved cornice.	m2	17
63	Extra over ceiling for opening for 650 x 650 mm trap door complete with trimmers, frame, cross branders, ceiling board, hinges, etc	No	2
<u>"Rhino" gypsum plasterboard cornices</u>			
64	75mm Coved cornices	m	17
<u>HINGES, BOLTS, ETC</u>			
<u>Manufactured by Dormakaba or similar approved:</u>			
65	3 x 100mm Mild steel butterfly hinge	No	18
<u>LOCKS</u>			
<u>"Union" or equal and approved</u>			
66	682-24-52 SC Three Lever lockset or similar approved	No	3
<u>LETTERS, NAMEPLATES, ETC</u>			
67	75 x 150mm Natural anodised aluminium plate with male/female symbol	No	1
<u>"Nampak"</u>			
68	"TR2" lockable toilet roll holder plugged	No	3
<u>"Stiebel Eltron"</u>			
69	"PTFS-S" Paper towel dispenser plugged	No	1
Carried Forward			R
Section No. 9 Bill No. 1 1 x 2 Enviro Loo Toilets (2 Toilets) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

User note

Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions

Take note that these Model Bills of Quantities utilise abbreviated descriptions

*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. **Where such model preambles are not applicable** (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*

Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008

Patterns

Unless otherwise described, tiles shall be laid with continuous joints in both directions

Fixing

Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding

Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat

Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles

WALL TILING

Section No. 9

Bill No. 1

1 x 2 Enviro Loo Toilets (2 Toilets)

Independent Development Trust

Tshembhani Primary School Provisional Bill of Quantities

[illegible]

Brought Forward			R
<u>SANITARY FITTINGS (PROVISIONAL)</u>			
85	Erect "Enviroloo" urinals complete as per manufacturers instruction - manufacturer to supply and delivery arrangements contact 011 762 1624 of Enviroloo Options	No	7
<u>WASTE UNIONS, ETC</u>			
86	32mm "301CP" Basin waste union	No	1
<u>SANITARY PLUMBING (PROVISIONAL)</u>			
<u>uPVC pipes</u>			
87	110mm Pipes	m	14
<u>Extra over uPVC pipes for fittings</u>			
88	110mm Bend	No	4
89	110 mm Junction	No	4
90	110mm Access bend	No	4
91	110mm Access reducing junction	m	4
92	110mm "GI Two-way" vent valve	No	4
93	150mm diameter vent pipe	m	4
<u>WATER SUPPLY</u>			
<u>Class 0 copper pipes</u>			
94	15 mm Pipes	m	21
<u>Extra over class 0 copper pipes for capillary fittings</u>			
95	15mm Fittings	No	4
<u>Copper overflow and service pipes</u>			
96	15mm Service pipe 350mm girth	No	4
Carried Forward			R
Section No. 9 Bill No. 1 1 x 2 Enviro Loo Toilets (2 Toilets) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

	Brought Forward			R
	<u>Vent Pipe</u>			
97	150mm diam. Vent pipe to be painted black including 240mm diam turbo ventura whirlbird with 150mm diam throat	No	4	
	<u>TESTING</u>			
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 Project Manager, replace any defective work free of charge and leave perfect		Item	
	<u>FIRE APPLIANCES ETC</u>			
	<u>"Chubb"</u>			
99	4,5kg Carbon dioxide fire extinguisher	No	1	
	<u>Enviroloo Unit</u>			
	<u>Standard WC</u>			
100	Erect "Enviroloo" set up and fixed complete as per manufacturers instruction - manufacturer to supply and delivery arrangements contact 011 762 1624 of Enviroloo Options.	No	2	
	<u>PAINTWORK, ETC</u>			
	<u>On Floated Plaster</u>			
	<u>One coat alkali resistant primer, one undercoat and two coats eggshell enamel paint</u>			
101	On internal walls	m2	66	
	<u>ON FLOATED PLASTER</u>			
	<u>ON FIBRE CEMENT</u>			
	<u>One coat primer, one coat universal undercoat and two coats "Plascon Velvagio Polyurethane Enamel" or equal and approved paint</u>			
102	On ceilings	m2	17	
	Carried Forward			R
	Section No. 9 Bill No. 1 1 x 2 Enviro Loo Toilets (2 Toilets) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 1</u>			
	<u>ENVIROLOO TOILETS (ALL TRADES BILL)</u>			
	PREAMBLESFor preambles refer to Specification of Materials and Method to be used			
	<u>SITE CLEARANCE ETC</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	76	
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m2	76	
	<u>EXCAVATIONS, FILLING, ETC, OTHER THAN BULK</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Pit	m3	11	
	<u>Excavation in earth not exceeding 2m deep</u>			
4	Trenches	m3	41	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
5	Soft rock	m3	8	
6	Hard rock	m3	4	
	<u>Extra over all excavations for carting away</u>			
7	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	19	
	<u>Risk of collapse of excavations</u>			
8	Sides of trench and hole excavations not exceeding 1,5m deep	m2	103	
	Carried Forward		R	
	Section No. 10 Bill No. 1 2 x 4 Enviro Loo Toilets (8 Toilets) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

	Brought Forward			R	
9	Sides of trench and pit excavations exceeding 1,5m deep	m2	24		
	<u>Keeping excavations free of water</u>				
10	Keeping excavations free of water		Item		
	<u>Earth filling obtained from the excavations on site and compacted to 93% Mod AASHTO density</u>				
11	Backfilling to trenches, holes, etc	m3	22		
12	Under floors, steps, paving etc,.	m3	7		
	<u>Compaction of surfaces</u>				
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	44		
	<u>Approved soil insecticide</u>				
14	Under floors etc including forming and poisoning V-shaped channels against foundation walls etc, filling in channels and ramming	m2	44		
15	To bottom and sides of trenches, holes etc	m2	103		
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
	<u>Test Blocks</u>				
16	Making of 150 x 150 x 150mm concrete strength test cube, label and send to an approved laboratory for testing, including paying all charges and submit report to the Agent. (only successful tests will be paid for)	No	4		
	<u>REINFORCED CONCRETE</u>				
	<u>25MPa/19mm concrete</u>				
17	Strip footings	m3	6		
	Carried Forward			R	
	Section No. 10 Bill No. 1 2 x 4 Enviro Loo Toilets (8 Toilets) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

Brought Forward			R
<u>20MPa/19mm concrete</u>			
18	Thickening under surface bed	m3	5
19	Surface beds in pit	m3	24
20	In surface beds cast to falls	m3	5
21	In aprons/pavings/ramps cast in panels	m3	5
22	Slabs	m3	8
<u>SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a woodfloat</u>			
23	Aprons, pavings, ramps, etc	m2	50
<u>Finishing top surfaces of concrete with a steel trowel</u>			
24	Surface beds, slabs, etc.	m2	60
<u>FORMWORK</u>			
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>			
<u>Rough formwork to</u>			
25	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	96
<u>Permanent formwork to soffits</u>			
26	Corrugated iron sheets as permanent formwork	m2	16
27	Form 450mm diameter opening in floor slab	No	8
<u>REINFORCEMENT</u>			
<u>Fabric reinforcement</u>			
28	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	60
Carried Forward			R
Section No. 10 Bill No. 1 2 x 4 Enviro Loo Toilets (8 Toilets) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

	Brought Forward			R	
	<u>Steel reinforcement to structural concrete work</u>				
29	All diameter bars	t	6.94		
	<u>Concrete water trough</u>				
30	Water trough	No	2		
	<u>BRICKWORK IN FOUNDATIONS</u>				
	<u>(PROVISIONAL)</u>				
	<u>Brickwork of NFX bricks (14MPa nominal compressive strenght) in class I mortar in foundations</u>				
31	One brick walls	m2	34		
	<u>Wall cavity</u>				
32	330mm wide brick retaining wall filled with reinforced concrete	m2	34		
	<u>Brickwork reinforcement</u>				
33	150mm Wide reinforcement built in horizontally	m	200		
	<u>FACE BRICKWORK</u>				
	<u>Equal and approved facebricks to match existing pointed with recessed horizontal and vertical joints</u>				
34	Extra over brickwork for face brickwork	m2	34		
	<u>INTERNAL PLASTER</u>				
	<u>Cement plaster on brickwork;</u>				
35	On walls in pit	m2	52		
	<u>FLOOR AND WALL SEALERS</u>				
	<u>Minimum two coats 'approved' black epoxy coat:Cement plaster on brickwork;</u>				
36	On internal textured plaster walls	m2	52		
	<u>SUPERSTRUCTURE</u>				
	Carried Forward			R	
	Section No. 10				
	Bill No. 1				
	2 x 4 Enviro Loo Toilets (8 Toilets)				
	Independent Development Trust				
	Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward			R	
	<u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in class I mortar</u>				
37	Half brick walls in beamfilling	m2	16		
38	Half brick walls	m2	26		
39	One brick walls	m2	111		
	<u>Brickwork reinforcement</u>				
40	75mm Wide reinforcement built in horizontally	m	94		
41	150mm Wide reinforcement built in horizontally	m	653		
	<u>Turning pieces</u>				
42	115mm Wide turning pieces to lintels etc	m	12		
	<u>Galvanised wire ties etc</u>				
43	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	76		
	<u>Prestressed fabricated lintels</u>				
44	110mm x 70mm Lintel not exceeding 3m long, hoisted into position and laid over opening in brick wall with ends bedded in class II mortar	m	12		
	<u>FACE BRICKWORK</u>				
45	half brick walls	m2	26		
46	Extra over brickwork for face brickwork	m2	111		
47	Extra over brickwork for facing beamfilling.	m2	16		
	<u>Brick-on-edge header course copings, sills, etc of face bricks pointed with recessed joints on all exposed faces</u>				
48	Extra over brickwork for brick-on-edge header course lintel pointed on face and 110mm soffit	m	12		
49	Extra over brickwork for brick-on-edge 100mm wide sill set sloping and slightly projecting	m	8		
	Carried Forward			R	
	Section No. 10 Bill No. 1 2 x 4 Enviro Loo Toilets (8 Toilets) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

Brought Forward			R
	<u>Air bricks etc</u>		
50	1085 x 2000mm Clay vermin proof air brick	No	4
<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of type 375 micron Consol Plastics Brikgrip DPC or equal and approved embossed damp proof course</u>		
51	In walls	m2	12
	<u>Polyolefin 0,25mm damp proof membrane sheeting complying with SABS 952, Type C in widest practicable widths with all joints lapped 200mm and sealed in accordance with the manufacturer's instruction</u>		
52	Under surface beds	m2	60
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,8mm Colomet "IBR" roof sheet in single lengths fixed to timber purlins.</u>		
53	Roof covering with pitches not exceedin 25 degrees	m2	80
54	450mm girth Galvanised metal ridge capping with 225mm lapping.	m	12
	<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>		
	<u>Non-combustible fibreglass insulation of a density of not less than 10kg/m3 bonded with an inert thermo-setting</u>		
55	100mm non-combustible lightweight fiberglass insulation blanket fitted between tie beams and laid loose on top of brandering underlay dressed over bottom purlin into gutter	m2	80
Carried Forward			R
Section No. 10 Bill No. 1 2 x 4 Enviro Loo Toilets (8 Toilets) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Brought Forward			R
<u>ROOFS CONSTRUCTION</u>			
56	Roof construction over Enviro-loo toilet building approximate flat area, 32m ² on plan complete including trusses, jack rafters, bracing and hoisting into position approximately 2,5m high above floor level all in accordance with the Architects drawings at the back of these bills of quantities.	No	2
<u>Sundries</u>			
57	Two coats creosote on sawn timbers	m2	23
<u>EAVES, VERGES, ETC</u>			
<u>"Everite FC77" pressed fibre-cement</u>			
58	12 x 225mm Pressed fibre-cement fascia with pvc jointers fixed to rafter ends with adequate screws	m	38
<u>TIMBER DOORS, WINDOWS, ETC</u>			
<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			
<u>DOORS ETC</u>			
<u>Semi-solid medium dutty flush panel door leaf. 40mm thick with masonite veneer faces suitable for painting and edges to match veneer.</u>			
59	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. Size 813 x 2032mm	No	6
Carried Forward			R
Section No. 10 Bill No. 1 2 x 4 Enviro Loo Toilets (8 Toilets) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Brought Forward			R
60	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. Size 914 x 2032mm	No	2
	<u>Solid meranti framed, ledged and braced batten doors with masonite veneer to internal face suitable for painting (painting elsewhere measured)</u>		
61	Code SA 08 Purpose Made Solid Meranti Framed, ledged and braced batten door leafs. 40mm thick with masonite veneer on inside face suitable for painting or varnishing as per finishing schedule. With rebated meeting styles. Size 914 x 2032mm	No	2
62	Code SA09 Standard solid meranti framed, ledged and braced batten door leafs. 40mm thick with masonite veneer on inside face suitable for painting or varnishing as per finishing schedule. with rebated meeting styles. Size 813 x 2032mm	No	2
<u>INSULATION</u>			
<u>Aerolite insulation.</u>			
63	50mm Insulation closely fitted and laid on top of brandering, between roof timbers.	m2	44
<u>FIBRE CEMENT CEILINGS</u>			
<u>6mm "Nu-tec" pressed fibre-cement boards with H-type pressed steel jointing strips</u>			
64	Ceiling boarding secured horizontally to and including 38mm x 50mm timber brandering at 400mm centres in one direction including coved cornice.	m2	34
65	Extra over ceiling for opening for 650 x 650 mm trap door complete with trimmers, frame, cross branders, ceiling board, hinges, etc	No	4
<u>"Rhino" gypsum plasterboard cornices</u>			
66	75mm Coved cornices	m	48
Carried Forward			R
Section No. 10 Bill No. 1 2 x 4 Enviro Loo Toilets (8 Toilets) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

	Brought Forward			R	
	<u>HINGES, BOLTS, ETC</u>				
	<u>Manufactured by Dormakaba or similar approved:</u>				
67	3 x 100mm Mild steel butterfly hinge	No	36		
	<u>LOCKS</u>				
	<u>"Union" or equal and approved</u>				
68	682-24-52 SC Three Lever lockset or similar approved	No	10		
	<u>LETTERS, NAMEPLATES, ETC</u>				
69	75 x 150mm Natural anodised aluminium plate with male/female symbol	No	2		
70	75 x 150mm Natural anodised aluminium plate with paraplegic symbol	No	2		
	<u>FITINGS ETC</u>				
	<u>"Chairman Industries"</u>				
71	32mm Type DL2 side grab rail plugged	No	2		
72	32mm Type SR2 rear grab rail plugged	No	2		
	<u>"Nampak"</u>				
73	"TR2" lockable toilet roll holder plugged	No	8		
	<u>"Stiebel Eltron"</u>				
74	"PTFS-S" Paper towel dispenser plugged	No	4		
75	"SDSS" Soap dispenser plugged	No	4		
	<u>SUNDRIES</u>				
76	38mm Diameter rubber door stop plugged	No	10		
	<u>DOOR FRAMES, INCLUDING BUILDING INTO BRICKWORK</u>				
	Carried Forward			R	
	Section No. 10 Bill No. 1 2 x 4 Enviro Loo Toilets (8 Toilets) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

Brought Forward			R
<u>19 x 19mm Galvanised tubular steel door frames suitable for half brick walls</u>			
77	Frame for door 914 x 2032mm high	No	4
78	Frame for door 813 x 2032mm high	No	8
<u>STEEL WINDOWS, DOORS, ETC</u>			
<u>Standard residential windows</u>			
79	Window type, 533 x 654mm high	No	16
<u>INTERNAL PLASTER</u>			
<u>Cement plaster on brickwork</u>			
80	On walls	m2	158
<u>GRANOLITHIC</u>			
<u>Untinted granolithic floor finish on concrete</u>			
81	40mm Thick on floors and landings	m2	44
<u>TILING</u>			
Carried Forward			R
Section No. 10 Bill No. 1 2 x 4 Enviro Loo Toilets (8 Toilets) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

User note

Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions

Take note that these Model Bills of Quantities utilise abbreviated descriptions

*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. **Where such model preambles are not applicable** (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*

Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008

Patterns

Unless otherwise described, tiles shall be laid with continuous joints in both directions

Fixing

Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding

Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat

Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles

WALL TILING

Section No. 10

Bill No. 1

2 x 4 Enviro Loo Toilets (8 Toilets)

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Brought Forward			R
	<u>200 x 200 x 5mm White matt glazed ceramic tiles on brickwork including cement plaster backing</u>		
82	On walls in isolated panels, splashbacks, etc not exceeding 1m ²	m2	10
	<u>FLOOR TILING</u>		
	<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>		
	<u>200 x 200 x 10mm ceramic floor tiles on 20mm bedding on concrete and flush pointed with tinted waterproof grout</u>		
83	On floors	m2	34
84	100mm High Skirting	m	60
	<u>PLUMBING AND DRAINAGE</u>		
	<u>RAINWATER DISPOSAL</u>		
	<u>0,6mm GALVANISED SHEET STEEL GUTTERS AND RAIN WATER PIPES</u>		
85	100mm Half-round roof gutters with beaded front edge	m	38
86	100 x 75mm Rainwater pipes to discharge water into the water tanks	m	11
87	Extra over gutter for stopped end	No	2
88	Extra over gutter for outlet for 100mm pipe	No	2
89	Extra over rainwater pipe for bend	No	2
	<u>WASTE UNIONS, ETC</u>		
90	32mm "301CP" Basin waste union	No	2
	<u>SANITARY PLUMBING (PROVISIONAL)</u>		
	Carried Forward		R
	Section No. 10 Bill No. 1 2 x 4 Enviro Loo Toilets (8 Toilets) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities		

Brought Forward				R
<u>uPVC pipes</u>				
91	110mm Pipes	m	30	
<u>Extra over uPVC pipes for fittings</u>				
92	110mm Bend	No	8	
93	110 mm Junction	No	8	
94	110mm Access bend	No	8	
95	110mm Access reducing junction	m	16	
96	110mm "GI Two-way" vent valve	No	8	
97	150mm diameter vent pipe	m	16	
<u>WATER SUPPLY</u>				
<u>Class 0 copper pipes</u>				
98	15 mm Pipes	m	30	
<u>Extra over class 0 copper pipes for capillary fittings</u>				
99	15mm Fittings	No	4	
<u>Copper overflow and service pipes</u>				
100	15mm Service pipe 350mm girth	No	4	
<u>Vent Pipe</u>				
101	150mm diam. Vent pipe to be painted black including 240mm diam turbo ventura whirlbird with 150mm diam throat	No	4	
<u>TESTING</u>				
102	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>				
Carried Forward				R
Section No. 10 Bill No. 1 2 x 4 Enviro Loo Toilets (8 Toilets) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward			R
	<u>"Chubb"</u>			
103	4,5kg Carbon dioxide fire extinguisher	No	2	
	<u>Enviroloo Unit</u>			
	<u>Standard WC</u>			
104	Erect "Enviroloo" set up and fixed complete as per manufacturers instruction - manufacturer to supply and delivery arrangements contact 011 762 1624 of Enviroloo Options.	No	6	
105	Erect "Enviroloo" parapagic set up and fixed complete as per manufacturers instruction - manufacturer to supply and delivery arrangements contact 011 762 1624 of Enviroloo Options.	No	2	
	<u>PAINTWORK, ETC</u>			
	<u>On Floated Plaster</u>			
	<u>One coat alkali resistant primer, one undercoat and two coats eggshell enamel paint</u>			
106	On internal walls	m2	158	
	<u>ON FLOATED PLASTER</u>			
	<u>ON FIBRE CEMENT</u>			
	<u>One coat primer, one coat universal undercoat and two coats "Plascon Velvagro Polyurethane Enamel" or equal and approved paint</u>			
107	On ceilings	m2	34	
108	On fascia and barge boards	m	34	
	<u>ON WOOD</u>			
109	On doors	m2	41	
	<u>ON METAL</u>			
	Carried Forward			R
	Section No. 10 Bill No. 1 2 x 4 Enviro Loo Toilets (8 Toilets) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

	Brought Forward			R
	Spot primer defects in pre-primed surfaces with zinc chromate primer UC 53, one universal undercoat and two coats Velvagio or equal and approved enamel paint			
110	On screens, gates etc (both sides measured)	m2	41	
	<u>GLAZING</u>			
	<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>Float glass</u>			
	The term "float glass" is used for monolithic annealed glass			
	<u>Laminated glass</u>			
	Laminated glass to have polyvinyl butyral (PVB) interlayer(s)			
	<u>GLAZING TO STEEL WITH PUTTY</u>			
	<u>4mm Clear float glass</u>			
111	Panes exceeding 0,1m ² and not exceeding 0,5m ²	m2	6	
	Carried Forward			R
	Section No. 10 Bill No. 1 2 x 4 Enviro Loo Toilets (8 Toilets) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Brought Forward			R
<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>			
<u>Silvered float glass copper backed mirrors with polished edges, holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u>			
112	Mirror 450 x 600mm high	No	6
<u>SUPERVISION OF INSTALLATION OF "ENVIROLOO"</u>			
<u>Supervision of installation of "Enviroloo"</u>			
113	Allow an amount of R 15 000.00 (Fifteen thousand Rands) for Site visit by "Enviroloo Options' inspector"	Item	15,000.00
114	Profit and attendance on last	%	
Carried to Final Summary			R
Section No. 10			
Bill No. 1			
2 x 4 Enviro Loo Toilets (8 Toilets)			
Independent Development Trust			
Tshembhani Primary School Provisional Bill of Quantities			

Item No	Quantity	Rate	Amount
<u>WATER-BORNE TOILETS</u>			
<u>BILL NO 1</u>			
<u>EARTHWORKS (PROVISIONAL)</u>			
<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 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"			
Carried Forward		R	
Section No. 11 Bill No. 1 Waterborne Toilets (6 Toilet Seats) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Brought Forward

R

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"

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"

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"

User note

The following are typical examples of descriptions of "subterranean water"

Subterranean water

No subterranean water is expected

The water table is expected to vary below natural ground level. The removal of subterranean water is given separately

Carting away of excavated material

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

Filling and layer work materials

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

Carried Forward

R

Section No. 11

Bill No. 1

Waterborne Toilets (6 Toilet Seats)

Independent Development Trust

Tshembhani Primary School Provisional Bill of Quantities

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>				
<u>SITE CLEARANCE</u>				
<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>EXCAVATION, FILLING, ETC</u>				
<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>				
<u>EXCAVATIONS ETC</u>				
<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	
Carried Forward			R	
Section No. 11				
Bill No. 1				
Waterborne Toilets (6 Toilet Seats)				
Independent Development Trust				
Tshembhani Primary School Provisional Bill of Quantities				

Brought Forward			R
	<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	
	<u>FILLING ETC</u>		
	<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
	<u>WEED KILLERS, INSECTICIDES, ETC</u>		
	<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
	<u>TESTS</u>		

	Brought Forward			R
	<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>			
13	"Modified AASHTO Density" test	No	3	
	<u>BILL NO 2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<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>Cost of tests</u>			
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately)			
	Carried Forward			R
	Section No. 11 Bill No. 1 Waterborne Toilets (6 Toilet Seats) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Brought Forward

R

Breeze concrete

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

Lightweight concrete

Lightweight concrete shall have a density of 600kg/m³ for the top 50mm and 400kg/m³ for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 50mm

Formwork

Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use

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

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

Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described

Carried Forward

R

Section No. 11

Bill No. 1

Waterborne Toilets (6 Toilet Seats)

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	Brought Forward			R
	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"			
	<u>UNREINFORCED CONCRETE CAST ON/IN FORMWORK</u>			
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25MPa 19mm concrete</u>			
14	Surface blinding under surface beds	m3	5	
	<u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>			
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 20MPa at 28 days</u>			
15	Surface beds cast in panels on waterproofing	m3	5	
16	In aprons/pavings/ramps cast in panels	m3	3	
	<u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25MPa at 28 days</u>			
17	Strip footings	m3	8	
	<u>REINFORCEMENT</u>			
	<u>Fabric reinforcement</u>			
18	Type 245 fabric reinforcement in concrete surface beds, etc.	m2	48	
	Carried Forward			R
	Section No. 11 Bill No. 1 Waterborne Toilets (6 Toilet Seats) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

	Brought Forward			R
	<u>TEST CUBES</u>			
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>			
	<u>CONCRETE SUNDRIES</u>			
	<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	
	<u>FORMWORK</u>			
	<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	
	<u>MOVEMENT JOINTS ETC</u>			
	<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	
	<u>REINFORCEMENT</u>			
	Carried Forward			R
	Section No. 11 Bill No. 1 Waterborne Toilets (6 Toilet Seats) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Brought Forward			R
<u>REINFORCEMENT (PROVISIONAL)</u>			
<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
<u>BILL NO 3</u>			
<u>MASONRY</u>			
<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>BRICKWORK</u>			
<u>Sizes in descriptions</u>			
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
Carried Forward			R
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Brought Forward

R

User note

The following preamble generally applies for works in hot and humid coastal areas

Bagged and sealed walls

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

Face bricks

Bricks shall be ordered timeously to obtain uniformity in size and colour

Pointing

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

BLOCKWORK

Concrete masonry units

Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7MPa

Wall ties for blockwork

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

Blockwork

Blockwork shall comply with SANS 10145 "Concrete Masonry Construction"

Carried Forward

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		Brought Forward			R
	<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> <p><u>Standard complementary blocks</u></p> <p>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</p> <p><u>DECORATIVE BLOCKS</u></p> <p>Blocks shall be of approved manufacture, sound, well burnt or cured and uniform and true in size, shape and colour</p> <p><u>BRICKWORK</u></p> <p><u>FOUNDATIONS (PROVISIONAL)</u></p> <p><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u></p>				
26	Half brick walls	m2	6		
27	One brick walls	m2	23		
	<p><u>SUPERSTRUCTURE</u></p> <p><u>Brickwork of NFP bricks in class II mortar</u></p> <p><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u></p> <p><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar in loadbearing walls etc</u></p> <p><u>Brickwork of concrete bricks in class II mortar</u></p>				
		Carried Forward			R
<p>Section No. 11 Bill No. 1 Waterborne Toilets (6 Toilet Seats) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities</p>					

Brought Forward				R
<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	
<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	
<u>FACE BRICKWORK</u>				
<u>Facings in approved face bricks (FBS) with a PC</u>				
<u>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	
Carried Forward				R
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	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>			
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	
40	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	4	
	<u>BILL NO 4</u>			
	<u>WATERPROOFING</u>			
	<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. 11 Bill No. 1 Waterborne Toilets (6 Toilet Seats) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

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			
<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
<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
<u>BILL NO 5</u>			
<u>ROOF COVERINGS, CLADDINGS, ETC</u>			
Carried Forward			R
Section No. 11 Bill No. 1 Waterborne Toilets (6 Toilet Seats) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

User note

Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions

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Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008

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

PROFILED METAL SHEETING AND ACCESSORIES

User note

Profiled metal sheeting is available in various thicknesses

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

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

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Note that besides galvanised steel, sheeting is also available in corten steel, stainless steel, copper and aluminium

Global Roofing Solutions 700mm cover Klip-Lok 700™ profile roll-formed in continuous lengths from 0.5mm 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

43	Roof covering with pitches not exceeding 5 degrees	m2	77
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ROOF AND WALL INSULATION

User note

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

Non-combustible fibreglass insulation of a density of not less than 10kg/m3 bonded with an inert thermo-setting

44	100mm non-combustible lightweight fiberglass insulation blanket fitted between tie beams and laid loose on top of brandering underlay dressed over bottom purlin into gutter	m2	77
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BILL NO 6

CARPENTRY AND JOINERY

R

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User note

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Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008

Fixing

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

Decorative thermosetting plastic laminate covering

Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish

STRUCTURAL TIMBERWORK ETCSawn softwood grade 6

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<p style="text-align: right;">Brought Forward</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><u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC</u></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> <p><u>Sawn softwood grade 6</u></p> <p>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)</p> <p><u>EAVES, VERGES, ETC</u></p> <p><u>Sawn softwood</u></p> <p><u>Wrought softwood</u></p> <p><u>Wrought meranti</u></p> <p><u>High density plain fibre-cement fascias and barge boards</u></p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 11 Bill No. 1 Waterborne Toilets (6 Toilet Seats) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities</p>	<p style="text-align: center;">Item</p>	<p style="text-align: center;">R</p>	
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Brought Forward				R
<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	
<u>TIMBER DOORS, WINDOWS, ETC</u>				
<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				
<u>DOORS ETC</u>				
<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	
<u>Nu-tec Board</u>				
48	20mm thick nu-tec boards as internal window cill	m	4	
<u>BILL NO 7</u>				
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>				
Carried Forward				R
Section No. 11 Bill No. 1 Waterborne Toilets (6 Toilet Seats) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

Brought Forward

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User note

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Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008

Fixing

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

Ceilings

Unless otherwise described ceilings shall be deemed to be horizontal

Bulkheads

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

Carried Forward

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Brought Forward			R
<u>Steel components</u>			
All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121			
<u>CEILING TIMBERS, BEADS, INSULATION, ETC</u>			
<u>Mineral wool insulation</u>			
49	Cellulose ceiling insulation laid loose over ceiling in roof void	m2	38
<u>NAILED-UP CEILINGS</u>			
<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			
<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
<u>BILL NO 8</u>			
<u>IRONMONGERY</u>			
Carried Forward			R
Section No. 11 Bill No. 1 Waterborne Toilets (6 Toilet Seats) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

		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. <u>Where such model preambles are not applicable</u> (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>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><u>HINGES, BOLTS, ETC</u></p> <p><u>Manufactured by Dormakaba or similar approved:</u></p>			
53	3 x 100mm Mild steel butterfly hinge	No	24		
		<u>LOCKS</u>			
		Carried Forward			R
	<p>Section No. 11</p> <p>Bill No. 1</p> <p>Waterborne Toilets (6 Toilet Seats)</p> <p>Independent Development Trust</p> <p>Tshembhani Primary School Provisional Bill of Quantities</p>				

Brought Forward			R
<u>Keys</u> Unless otherwise described locks shall have two keys each <u>"EN-SUITE" LOCKS</u> The following locks are to be suitable for master key operation The following locks are to be suitable for master and grand master key operation <u>Manufactured by Dormakaba or similar approved:</u> <u>Locks installed in timber or aluminium doors:</u>			
54	"DMWC SS 008" Stainless steel bathroom deadlock size 38mm high x 76mm deep	No	8
<u>HANDLES</u> <u>Manufactured by Dormakaba or similar approved:</u> <u>Lever handles:</u>			
55	"CB30" Satin chrome lever on plate with cylinder cutout	No	8
<u>PUSH PLATES AND KICK PLATES</u> <u>2mm Thick anodised aluminium plates countersunk screwed along edges at not exceeding 200mm centres</u>			
56	152 x 76mm Push plate	No	8
<u>DOOR CLOSERS</u> <u>Manufactured by dormakaba or similar approved</u>			
57	Door closer with parallel arm, with bracket fixed to metal	No	2
<u>LETTERS, NAMEPLATES, ETC</u> <u>Manufactured by dormakaba or similar approved</u>			
58	150 x 150mm Natural anodized aluminium plate with male or female symbol.	No	2
Carried Forward			R
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Brought Forward

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PHOTOLUMINESCENT SIGNS

SUPPLEMENTARY PREAMBLES

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

Wall mounted photoluminescent statutory signs in 150 x 150mm modules

59 190 x 190 x 3mm Thick white perspex international FB2 sign plate with red fire extinguisher symbol plugged to brickwork

No

2

SUNDRIES

Manufactured by Dormakaba or similar approved:

Door stops, coat hooks, etc.:

60 Stainless steel half moon door stop or similar approved, plugged and screwed to floor

No

8

BATHROOM FITTINGS

Carried Forward

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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	
	<u>BILL NO 9</u>			
	<u>METALWORK</u>			
	<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. 11 Bill No. 1 Waterborne Toilets (6 Toilet Seats) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

<p style="text-align: center;">Brought Forward</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> <p>The following certificates shall be provided prior to commencement of site work:</p> <ol style="list-style-type: none"> 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 <p style="text-align: center;">Carried Forward</p> <p>Section No. 11 Bill No. 1 Waterborne Toilets (6 Toilet Seats) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities</p>	<p style="text-align: center;">R</p> <p style="text-align: center;">R</p>
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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			
<u>STEEL GATES, SCREENS, ETC</u>				
<u>GALVANISED STEEL GATES, SCREENS, ETC</u>				
<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	
<u>PRESSED STEEL DOOR FRAMES</u>				
<u>GALVANISED PRESSED STEEL DOOR FRAMES</u>				
<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	
<u>STEEL WINDOWS, DOORS, ETC</u>				
Carried Forward				R
Section No. 11 Bill No. 1 Waterborne Toilets (6 Toilet Seats) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

Brought Forward			R
<u>GALVANISED STEEL WINDOWS, DOORS, ETC</u>			
<u>Standard school windows</u>			
66	Window type TS101, 530 x 654mm high	No	8
<u>STEEL WINDOW SUNDRIES</u>			
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	8.00
<u>BILL NO 10</u>			
<u>PLASTERING</u>			
<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. <u>Where such model preambles are not applicable</u> (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 preambles are to be included only when specifically required by the principal agent</i>			
Carried Forward			R
Section No. 11 Bill No. 1 Waterborne Toilets (6 Toilet Seats) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Brought Forward

R

GRANOLITHIC

Method

The method to be used shall be either the monolithic method or the bonded method

Preparation

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

Mix

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

Panels

Granolithic shall be laid in panels not exceeding 14m² for monolithic finishes, not exceeding 9,5m² for bonded finishes and not exceeding 6m² for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width

Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints

Carried Forward

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Laying

Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels

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

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

Curing, seasoning and protection

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

Colour

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

SCREEDS

Screeds wood floated, on concrete

Screeds steel trowelled, on concrete

CEMENT RENDER

User note

Cement render is a suitable finish to floors of store rooms etc where granolithic is not specifically required

Untinted 1:3 cement render steel trowelled, on concrete

GRANOLITHIC

Carried Forward

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Brought Forward			
	<u>Untinted granolithic, on concrete</u>		
69	20mm Thick on floors and landings	m2	56
<u>INTERNAL PLASTER</u>			
	<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

BILL NO 11

TILING

User note

Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions

Take note that these Model Bills of Quantities utilise abbreviated descriptions

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Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008

R

Carried Forward

R

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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			
	<u>WALL TILING</u>			
	<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 ²	m2	8	
	<u>FLOOR TILING</u>			
	<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>			
	<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>			
73	On floors	m2	56.00	
	Carried Forward			R
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	Brought Forward			R
74	To Skirtings 100mm high	m	57.00	
	<u>BILL NO 12</u>			
	<u>PLUMBING AND DRAINAGE</u> <u>(PROVISIONAL)</u>			
	<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. <u>Where such model preambles are not applicable</u> (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>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			
	Carried Forward			R
	Section No. 11 Bill No. 1 Waterborne Toilets (6 Toilet Seats) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

<p style="text-align: center;">Brought Forward</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> <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>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 11 Bill No. 1 Waterborne Toilets (6 Toilet Seats) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities</p>		R	

Brought Forward

R

PVC-U pressure pipes and fittings

Pipes of 50mm diameter and smaller shall be plain ended with solvent welded PVC-U loose sockets and fittings

Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be PVC-U and all other fittings shall be cast iron, all with similar push-in type joints

High density polyethylene (HDPE) pipes and fittings

Pipes shall be type IV and of the class specified with compression fittings

Polypropylene pipes

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

Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions

Copper pipes

Pipes shall be hard drawn and half-hard 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

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

Carried Forward

R

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<p style="text-align: center;">Brought Forward</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> <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> <p style="text-align: center;">Carried Forward</p> <p>Section No. 11 Bill No. 1 Waterborne Toilets (6 Toilet Seats) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities</p>	<p style="text-align: center;">R</p> <hr/> <p style="text-align: center;">R</p>
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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)			
<u>RAINWATER DISPOSAL</u>			
<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
78	100 x 100mm Rainwater pipes	m	6
Carried Forward			R
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	Brought Forward			R
79	Extra over eaves gutter for angle.	No	2	
	<u>SANITARY FITTINGS</u>			
	<u>'Vaal Sanitary ware' or similar approved</u>			
80	Quartz Trough Vanity size 600mm wide x 335 High	No	1	
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, fittings, 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	
	<u>WASTE UNIONS ETC</u>			
	<u>Manufactured by dormakaba or similar approved</u>			
83	32mm chromium plated basin waste union	No	5	
	<u>TRAPS ETC</u>			
84	32 x 50mm Deep seal "P" or "S" trap	No	5	
	<u>TAPS, VALVES, ETC</u>			
85	15mm chromium plated sink mixer	No	6	
	<u>SANITARY PLUMBING</u>			
	<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	
89	110mm Bend	No	6	
	Carried Forward			R
	Section No. 11			
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	Brought Forward			R
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	
	<u>WATER SUPPLIES</u>			
	<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	
	<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 Project Manager, replace any defective work free of charge and leave perfect		Item	
	Carried Forward			R
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	Brought Forward			R
	<u>FIRE APPLIANCES ETC</u>			
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	
	<u>BILL NO 13</u>			
	<u>GLAZING</u>			
	<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>Float glass</u>			
	The term "float glass" is used for monolithic annealed glass			
	Carried Forward			R
	Section No. 11 Bill No. 1 Waterborne Toilets (6 Toilet Seats) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

User note

Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions

Take note that these Model Bills of Quantities utilise abbreviated descriptions

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Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008

Attention is drawn to the measurement rules in the measuring system regarding paint colours which read as follows:

"4. 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)"

and

"5. Paintwork in one colour group may be given as extra over paintwork in another colour group"

SUPPLEMENTARY PREAMBLES**PREPARATORY WORK TO EXISTING WORK**

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R

Previously painted plastered surfaces

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

Previously painted metal surfaces

Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal

Previously painted wood surfaces

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

PAINT SPECIFICATIONS

All painting shall be done in accordance with specifications unless otherwise described

COLOURS

User note

*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:*

"Extra over for paintwork on components ceilings in the "White" colour group for paintwork in the "Pastel" colour group (Provisional) m²"

Carried Forward

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	Brought Forward			R
	<i>"Extra over for paintwork on components in the "Pastel" colour group for paintwork in the "Deep" colour group (Provisional) m²"</i>			
	Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	<u>ON INTERNAL TEXTURED PLASTER SURFACES</u>			
	<u>One coat alkali resistant primer and two coats PVA emulsion paint for interior use</u>			
106	Walls	m2	160	
	<u>ON FIBRE-CEMENT BOARD SURFACES</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>			
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	
	<u>ON METAL SURFACES</u>			
	<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel</u>			
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	
	<u>ON WOOD SURFACES</u>			
	Carried Forward			R
	Section No. 11 Bill No. 1 Waterborne Toilets (6 Toilet Seats) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>GRADE R CLASSROOM (1 CLASSROOM)</u></p> <p><u>BILL NO 1: EARTHWORKS (PROVISIONAL)</u></p> <p><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u></p> <p><u>Foundation brickwork and concrete walls have been measured to top of unfinished floor level</u></p> <p><u>EARTHWORKS</u></p> <p><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></p> <p><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></p>			
	Carried Forward		R	
	<p>Section No. 12</p> <p>Bill No. 1</p> <p>Grade R Classroom (1 Classroom)</p> <p>Independent Development Trust</p> <p>Tshembhani Primary School Provisional Bill of Quantities</p>			

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	14.00	
2	Trenches	m3	28.00	
<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	14.00	
<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	3.00	
5	Extra over excavations in earth for trenches and holes for excavations in hard rock	m3	2.00	
<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	70.00	
<u>Keeping excavations free of water</u>				
7	Allow for keeping excavations free of all water other than subterranean water		Item	
<u>Filling, etc.</u>				
8	Backfilling from the excavations to trenches and holes compacted to 90% modified AASHTO density	m3	15.00	
Carried Forward			R	
Section No. 12 Bill No. 1 Grade R Classroom (1 Classroom) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward			R	
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	14.00		
	<u>Tests</u>				
10	Tests to determine the degree of compaction, etc. of ground or filling	No	2.00		
	<u>Protection against termites</u>				
11	Poisoning surface of ground in bottoms of trenches, bases, etc.	m2	119.00		
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	92.00		
	<u>BILL NO 2: CONCRETE, FORMWORK AND REINFORCEMENT</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>CONCRETE</u>				
	<u>Concrete test cubes</u>				
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	2.00		
	<u>REINFORCED CONCRETE</u>				
	<u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 20MPa at 28 days</u>				
14	In aprons slabs	m3	3.00		
15	In surface beds cast on waterproofing	m3	12.00		
	Carried Forward			R	
	Section No. 12 Bill No. 1 Grade R Classroom (1 Classroom) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

Brought Forward			R
<u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25MPa at 28 days</u>			
16	In footings to walls cast against excavated surfaces, stepped and levelled	m3	8.00
<u>Sundries</u>			
17	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	92.00
<u>FORMWORK</u>			
<u>Rough Formwork</u>			
18	Edges, risers, ends and reveals not exceeding 300mm high	m	35
<u>Movement joints</u>			
19	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	66.00
<u>Expansion joints with 10mm softboard between vertical concrete surfaces, including necessary formwork</u>			
20	Not exceeding 300mm high to edges of surface beds	m	11
<u>REINFORCEMENT</u>			
<u>Steel reinforcement to structural concrete work</u>			
21	Diameter bars	t	0.720
<u>Fabric reinforcement</u>			
22	Type 395 fabric reinforcement in concrete surface beds, etc.	m2	92.00
Carried Forward			R
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Brought Forward			R
<u>BILL NO 3: MASONRY</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>BRICKWORK IN FOUNDATION</u>			
23	One brick wall	m2	28
<u>BRICKWORK IN BURNT CLAY BRICKS IN (5:1) CEMENT MORTAR</u>			
24	Half brick wall in beamfilling	m2	20.00
25	One brick wall	m2	66.00
26	Piers	m3	1
<u>BRICK REINFORCEMENT</u>			
27	Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	59.00
28	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	195.00
<u>TEMPORARY TURNING PIECES, ETC.</u>			
29	To flat brick lintels not exceeding 300mm wide	m	12.00
<u>SUNDRIES</u>			
30	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	24.00
<u>AIR BRICKS</u>			
31	229 x 76mm Terra-cotta vermin proof air brick with gauze backing and building into opening in brickwork in cement mortar	No	12.00
<u>FACED BRICKWORK</u>			
Carried Forward			R
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Brought Forward			R	
<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>				
<u>Extra over brickwork for face brickwork in foundation</u>				
32	Extra over ordinary brickwork for facing and pointing in stretcher bond	m2	20.00	
<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>				
33	Extra over ordinary brickwork for facing and pointing in stretcher bond	m2	66.00	
34	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	12.00	
35	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	11.00	
<u>Sundries</u>				
36	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	1.00	
<u>BILL NO 4: WATERPROOFING</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. 12 Bill No. 1 Grade R Classroom (1 Classroom) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward			R
	<u>DAMP-PROOFING TO WALLS</u>			
37	375 Micron embossed black polyethylene damp-proof course to walls, cills, etc. (measured net)	m2	92.00	
	<u>DAMP-PROOFING UNDER FLOORS, ETC.</u>			
	<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>			
38	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	6.00	
	<u>BILL NO 5: ROOF COVERINGS</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>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<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>			
	<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>			
	<u>Where roof coverings are fixed on top of rigid board insulation to purlins etc descriptions of roof coverings are to include therefore</u>			
	Carried Forward			R
	Section No. 12 Bill No. 1 Grade R Classroom (1 Classroom) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

	Brought Forward			R	
	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.				
39	Roof sheeting with pitch not exceeding 9° fixed to timber purlins (elsewhere)	m2	115.00		
	<u>'Klip-Lok 406' Flashings:</u>				
40	Ridge capping 550mm girth, three times bent along girth and notched on site to suit roof profile	m	15.00		
41	Hip capping 550mm girth, three times bent along girth and notched on site to suit roof profile.	m	9.00		
	<u>ROOF AND WALL INSULATION</u>				
	<u>Cellulose Ceiling or similar approved (Architect to advise)</u>				
42	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	115		
	<u>ROOF VENTILATORS</u>				
	<u>Galvanized steel louvred ventilators:</u>				
43	Triangular shaped steel fixed louvred ventilator size 2100mm wide at base x 450mm high fixed into timber roof trusses.	No	1.00		
	<u>BILL NO 6: CARPENTRY AND JOINERY</u>				
	Carried Forward			R	
	Section No. 12 Bill No. 1 Grade R Classroom (1 Classroom) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

Brought Forward			R
NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill			
<u>ROOFS, ETC.</u>			
<u>Plate nailed timber roof truss construction</u>			
44	Roof truss construction for 9 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: 8.625 x 7.935m	No	1.00
<u>WOOD PRESERVATIVE</u>			
45	Two coats wood preservative applied hot on wrought exposed roof timbers	m2	12.00
<u>FASCIAS AND BARGEBOARDS</u>			
<u>Tempered fibre-cement</u>			
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	27.00
<u>DOORS</u>			
<u>NOTE</u> <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>			
Solid meranti framed, ledged and braced batten doors with masonite veneer to internal face suitable for painting (painting elsewhere measured)			
47	40mm Purpose made Solid Framed and Braced Door 914 x 2032mm high	No	1
Carried Forward			R
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		Brought Forward			R
		<u>Nu-tec Board</u>			
48	20mm thick nu-tec boards as internal window cill	m	11		
	<u>JOINERY FITTINGS</u>				
	<u>THE FOLLOWING IN PINNING BOARDS</u>				
	<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</u>				
	<u>Pinning boards</u>				
49	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	1.00		
	<u>Interactive Whiteboard</u>				
50	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	1.00		
	<u>BILL NO 7: CEILINGS, PARTITIONS AND ACCESS FLOORING</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>TIMBER</u>				
	<u>: All softwood to be South African Pine</u>				
	<u>CEILINGS</u>				
	<u>Mineral wool insulation</u>				
51	50mm Insulation closely fitted and laid on top of branderling between roof timbers etc.	m2	92.00		
	Carried Forward				R
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	Brought Forward			R
	<u>6mm "Nu-tec" pressed fibre-cement boards with H-type pressed steel jointing strips</u>			
52	Ceilings including H-type pressed steel jointing strips and 38 x 38mm sawn softwood branderling at 400mm centres in one direction and around edges where required for fixing cornices, securely spiked to roof timbers	m2	92.00	
53	Extra over fibre-cement ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	1.00	
	<u>"Rhino" Gypsum plasterboard cornices</u>			
54	75mm Coved cornices	m	31.00	
	<u>BILL NO 8: IRONMONGERY</u>			
	<u>NOTE</u> <u>: Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u>			
	<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>			
55	100mm mild steel butterfly hinges	No	3.00	
	<u>LOCKS</u>			
56	Solid Blesbok / Tarpon. 460/313 Four Lever Lockset	No	1.00	
	<u>SUNDRIES</u>			
57	Stainless steel half moon door stop or similar approved, plugged and screwed to floor	No	1	
	Carried Forward			R
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Brought Forward			R
<u>NUMERAL AND NAME PLATES</u>			
<u>Indicator plates countersunk holed for and screwed to door or brickwork with chromium plated dome-headed screws</u>			
58	190 x 190 x 3mm Thick white perspex international FB2 sign plate with red fire extinguisher symbol plugged to brickwork	No	1.00
<u>BILL NO 9: METALWORK</u>			
<u>NOTE</u>			
<u>: Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u>			
<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>			
59	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 978 x 2 064m High (Code: GS 02)	No	1.00
<u>DOOR FRAMES, DOORS, WINDOWS, ETC.</u>			
<u>PRESSED STEEL DOOR FRAMES</u>			
<u>1,2mm Double rebated frames suitable for one brick walls</u>			
60	Door frame for door size 978 x 2,064m	No	1.00
<u>STEEL WINDOWS</u>			
<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>			
Carried Forward			R
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Brought Forward			R
<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>			
<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>			
<u>Standard residential type steel windows with burglar bars to fixed and opening sections</u>			
Window type code TS31 size 1 143 x 1 311m High	No	10.00	
<u>STEEL WINDOW SUNDRIES</u>			
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	15	
Extra for flat closed end	No	10.00	
<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>(3:1) CEMENT SCREEDS TO CONCRETE</u>			
<u>23mm Thick</u>			
On floors to receive vinyl or ceramic floor tiles (elsewhere measured)	m2	92.00	
<u>BILL NO 11: FLOOR COVERING, WALL LINING, ETC</u>			
Carried Forward			R
Section No. 12 Bill No. 1 Grade R Classroom (1 Classroom) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

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. <u>Where such model preambles are not applicable</u> (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>Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc</p> <p><u>FLOOR COVERINGS</u></p> <p><u>Superflex Vinyl Ash Grey MS122</u></p> <tr> <td>65</td><td>On floors</td><td>m2</td><td>92</td></tr> <p><u>SKIRTINGS, NOSINGS, ETC</u></p> <tr> <td>66</td><td>100mm Vinyl skirtings</td><td>m</td><td>30</td></tr> <p><u>BILL NO 12: PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <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>				65	On floors	m2	92	66	100mm Vinyl skirtings	m	30
65	On floors	m2	92								
66	100mm Vinyl skirtings	m	30								
Carried Forward			R								
<p>Section No. 12 Bill No. 1 Grade R Classroom (1 Classroom) Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities</p>											

	Brought Forward			R
	<u>RAINWATER DISPOSAL</u>			
	<u>Ogee profile aluminium finish to match roof sheeting:</u>			
67	100 x 75mm Eaves gutters with beaded front edge.	m	27.00	
68	Extra over eaves gutter for angle.	No	4.00	
69	Extra over eaves gutter for outlet for 100 x 75mm pipe.	No	4.00	
70	100 x 75mm Rainwater pipe.	m	10.56	
71	Extra over rainwater pipe for shoe.	No	4.00	
72	Extra over rainwater pipe for eaves or plinth offset 600mm projection.	No	4.00	
	<u>Fire appliances, etc.</u>			
73	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	1.00	
74	"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	
	<u>BILL NO 13: GLAZING</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>Glass in steel fixed with putty</u>			
75	5mm Clear Float glass fixed with glazing putty exceeding fixed with 0,5m ² and not exceeding 2m ²	m2	15.00	
	<u>BILL NO 14: PAINTWORK</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>PAINT ON FIBRE CEMENT</u>			
	Carried Forward			R
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	Brought Forward			R	
	<u>Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use</u>				
76	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	13.00		
	<u>PAINT ON GYPSUM SURFACES</u>				
	<u>Prepare, stop and apply two full coats semi-gloss PVA co-polymer paint to comply with SABS Specification No. 643</u>				
77	On internal plasterboard ceilings including priming steel joints and nail heads with one coat zinc phosphate alkyd resin primer	m2	92.00		
	<u>PAINT ON METAL</u>				
	<u>Prepare, touch up factory primer and apply one coat universal undercoat and two full coats high gloss enamel paint</u>				
78	Doors with burglar bars	m2	4		
79	Window burglars and frames	m2	15		
	<u>Prepare and apply one coat universal undercoat, two coats gloss enamel paint.</u>				
80	On pressed steel door frames	m2	3.00		
	<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>				
81	On doors	m2	5.00		
	Carried to Final Summary			R	
	Section No. 12				
	Bill No. 1				
	Grade R Classroom (1 Classroom)				
	Independent Development Trust				
	Tshembhani Primary School Provisional Bill of Quantities				

Item No	Quantity	Rate	Amount
<p><u>1 x 4 Classroom Block (4 Classrooms)</u></p> <p><u>BILL NO 1: EARTHWORKS (PROVISIONAL)</u></p> <p><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u></p> <p><u>Foundation brickwork and concrete walls have been measured to top of unfinished floor level</u></p> <p><u>EARTHWORKS</u></p> <p><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></p> <p><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></p>			
Carried Forward		R	
<p>Section No. 13</p> <p>Bill No. 1</p> <p>1 x 4 Classroom Block</p> <p>Independent Development Trust</p> <p>Tshembhani Primary School Provisional Bill of Quantities</p>			

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	52.00	
2	Trenches	m3	116.00	
<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	30.00	
<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	12.00	
5	Extra over excavations in earth for trenches and holes for excavations in hard rock	m3	6.00	
<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	296.00	
<u>Keeping excavations free of water</u>				
7	Allow for keeping excavations free of all water other than subterranean water		Item	
<u>Filling, etc.</u>				
8	Backfilling from the excavations to trenches and holes compacted to 90% modified AASHTO density	m3	62.00	
Carried Forward			R	
Section No. 13 Bill No. 1 1 x 4 Classroom Block Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward			R	
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	62.00		
	<u>Tests</u>				
10	Tests to determine the degree of compaction, etc. of ground or filling	No	4.00		
	<u>Protection against termites</u>				
11	Poisoning surface of ground in bottoms of trenches, bases, etc.	m2	406.00		
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	487.00		
	<u>BILL NO 2: CONCRETE, FORMWORK AND REINFORCEMENT</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>CONCRETE</u>				
	<u>Concrete test cubes</u>				
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		
	<u>REINFORCED CONCRETE</u>				
	<u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 20MPa at 28 days</u>				
14	In aprons slabs	m3	15.00		
15	In surface beds cast on waterproofing	m3	52.00		
16	In stairs	m3	5.00		
	Carried Forward			R	
	Section No. 13 Bill No. 1 1 x 4 Classroom Block Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

Brought Forward				R
17	In ramps	m3	17	
	<u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25MPa at 28 days</u>			
18	In footings to walls cast against excavated surfaces, stepped and levelled	m3	30.00	
	<u>Sundries</u>			
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	345.00	
	<u>FORMWORK</u>			
	<u>Rough Formwork</u>			
20	Edges, risers, ends and reveals not exceeding 300mm high	m	147	
	<u>Movement joints</u>			
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	210.00	
	<u>Expansion joints with 10mm softboard between vertical concrete surfaces, including necessary formwork</u>			
22	Not exceeding 300mm high to edges of surface beds	m	11	
	<u>REINFORCEMENT</u>			
	<u>High tensile steel reinforcement to structural concrete work</u>			
23	Diameter bars	t	1.193	
Carried Forward				R
Section No. 13 Bill No. 1 1 x 4 Classroom Block Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward			R	
	<u>Mild tensile steel reinforcement to structural concrete work</u>				
24	Diameter bars	t	0.30		
	<u>Fabric reinforcement</u>				
25	Type 395 fabric reinforcement in concrete surface beds, etc.	m2	345.00		
	<u>BILL NO 3: MASONRY</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>BRICKWORK IN FOUNDATION</u>				
26	One brick wall	m2	111		
	<u>BRICKWORK IN BURNT CLAY BRICKS IN (5:1) CEMENT MORTAR</u>				
27	Half brick wall in beamfilling	m2	95.00		
28	One brick wall	m2	320.00		
29	Piers	m3	3		
	<u>BRICK REINFORCEMENT</u>				
30	Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	280.00		
31	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	945.00		
	<u>TEMPORARY TURNING PIECES, ETC.</u>				
32	To flat brick lintels not exceeding 300mm wide	m	28.00		
	Carried Forward			R	
	Section No. 13 Bill No. 1 1 x 4 Classroom Block Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward			R	
	<u>SUNDRIES</u>				
33	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	176.00		
	<u>AIR BRICKS</u>				
34	229 x 76mm Terra-cotta vermin proof air brick with gauze backing and building into opening in brickwork in cement mortar	No	16.00		
	<u>FACED BRICKWORK</u>				
	<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>				
	<u>Extra over brickwork for face brickwork in foundation</u>				
35	Extra over ordinary brickwork for facing and pointing in stretcher bond	m2	80.00		
	<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>				
36	Extra over ordinary brickwork for facing and pointing in stretcher bond	m2	241.00		
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	28.00		
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	24.00		
	Carried Forward			R	
	Section No. 13 Bill No. 1 1 x 4 Classroom Block Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward			R
	<u>Sundries</u>			
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	2.00	
	<u>BILL NO 4: WATERPROOFING</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>DAMP-PROOFING TO WALLS</u>			
40	375 Micron embossed black polyethylene damp-proof course to walls, cills, etc. (measured net)	m2	44.00	
	<u>DAMP-PROOFING UNDER FLOORS, ETC.</u>			
	<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>			
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	345.00	
	<u>BILL NO 5: ROOF COVERINGS</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>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<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>			
	Carried Forward			R
	Section No. 13 Bill No. 1 1 x 4 Classroom Block Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

	Brought Forward			R
	<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>			
42	Roof sheeting with pitch not exceeding 9° fixed to timber purlins (elsewhere)	m2	525.00	
	<u>'Klip-Lok 406' Flashings:</u>			
43	Ridge capping 550mm girth, three times bent along girth and notched on site to suit roof profile	m	34.00	
44	Hip capping 550mm girth, three times bent along girth and notched on site to suit roof profile.	m	26.00	
	<u>ROOF AND WALL INSULATION</u>			
	<u>Cellulose Ceiling or similar approved (Architect to advise)</u>			
45	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	525	
	<u>ROOF VENTILATORS</u>			
	Carried Forward			R
	<p>Section No. 13 Bill No. 1 1 x 4 Classroom Block Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities</p>			

	Brought Forward			R	
	<u>Galvanized steel louvred ventilators:</u>				
46	Triangular shaped steel fixed louvred ventilator size 2100mm wide at base x 450mm high fixed into timber roof trusses.	No	2.00		
	<u>BILL NO 6: CARPENTRY AND JOINERY</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>ROOFS, ETC.</u>				
	<u>Plate nailed timber roof truss construction</u>				
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	1.00		
	<u>WOOD PRESERVATIVE</u>				
48	Two coats wood preservative applied hot on wrought exposed roof timbers	m2	30.00		
	<u>FASCIAS AND BARGEBOARDS</u>				
	<u>Tempered fibre-cement</u>				
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	96.00		
	<u>DOORS</u>				
	<u>NOTE</u> <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>				
	Carried Forward			R	
	Section No. 13 Bill No. 1 1 x 4 Classroom Block Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

	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>				
50	40mm Purpose made Solid Framed and Braced Door 914 x 2032mm high	No	4		
	<u>Nu-tec Board</u>				
51	20mm thick nu-tec boards as internal window cill	m	24		
	<u>JOINERY FITTINGS</u>				
	<u>THE FOLLOWING IN PINNING BOARDS</u>				
	<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</u>				
	<u>Pinning boards</u>				
52	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	4.00		
	<u>Interactive Whiteboard</u>				
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	4.00		
	<u>BILL NO 7: CEILINGS, PARTITIONS AND ACCESS FLOORING</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>TIMBER</u>				
	<u>: All softwood to be South African Pine</u>				
	<u>CEILINGS</u>				
	Carried Forward			R	
	Section No. 13 Bill No. 1 1 x 4 Classroom Block Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward			R
	<u>Mineral wool insulation</u>			
54	50mm Insulation closely fitted and laid on top of brandering between roof timbers etc.	m2	308.00	
	<u>6mm "Nu-tec" pressed fibre-cement boards with H-type pressed steel jointing strips</u>			
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	308.00	
56	Extra over fibre-cement ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	4.00	
	<u>"Rhino" Gypsum plasterboard cornices</u>			
57	75mm Coved cornices	m	198.00	
	<u>BILL NO 8: IRONMONGERY</u>			
	<u>NOTE</u> <u>: Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u>			
	<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>			
58	100mm mild steel butterfly hinges	No	12.00	
59	20mm diameter bullet-hinges	Pairs	4.0	
	Carried Forward			R
	Section No. 13 Bill No. 1 1 x 4 Classroom Block Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

		Brought Forward			R
		<u>LOCKS</u>			
60	Solid Blesbok / Tarpon. 460/313 Four Lever Lockset	No	4.00		
		<u>SUNDRIES</u>			
61	Stainless steel half moon door stop or similar approved, plugged and screwed to floor	No	4		
		<u>NUMERAL AND NAME PLATES</u>			
		<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>			
62	3mm Thick x 32mm wide plate with two numerals and/or letters	No	4.00		
		<u>Indicator plates countersunk holed for and screwed to door or brickwork with chromium plated dome-headed screws</u>			
63	190 x 190 x 3mm Thick white perspex international FB2 sign plate with red fire extinguisher symbol plugged to brickwork	No	4.00		
		<u>BILL NO 9: METALWORK</u>			
		<u>NOTE</u>			
		<u>: Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u>			
		<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>			
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	4.00		
		Carried Forward			R
	Section No. 13 Bill No. 1 1 x 4 Classroom Block Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward			R
	<u>The following in walkway roof support steelwork</u>			
65	100 x 100 x 5mm Square hollow section posts	m	33.00	
	<u>DOOR FRAMES, DOORS, WINDOWS, ETC.</u>			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1,2mm Double rebated frames suitable for one brick walls</u>			
66	Door frame for door size 978 x 2,064m	No	4.00	
	<u>STEEL WINDOWS</u>			
	<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>			
	<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>			
	<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>			
	<u>Standard residential type steel windows with burglar bars to fixed and opening sections</u>			
67	Window type code TS31 size 1 143 x 1 311m High	No	40.00	
	<u>STEEL WINDOW SUNDRIES</u>			
68	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	60	
69	Extra for flat closed end	No	40.00	
	Carried Forward			R
	Section No. 13 Bill No. 1 1 x 4 Classroom Block Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Brought Forward			R	
<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>(3:1) CEMENT SCREEDS TO CONCRETE</u>				
<u>23mm Thick</u>				
70	On floors to receive vinyl or ceramic floor tiles (elsewhere measured)	m2	308.00	
<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>				
71	On walls	m2	164.00	
72	On narrow widths	m2	42.00	
<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>				
<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>				
73	On floors	m2	244.00	
74	To Skirtings 100mm high	m	129.00	
<u>BILL NO 12: PLUMBING AND DRAINAGE (PROVISIONAL)</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. 13 Bill No. 1 1 x 4 Classroom Block Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward			R	
	<u>RAINWATER DISPOSAL</u>				
	<u>Ogee profile aluminium finish to match roof sheeting:</u>				
75	100 x 75mm Eaves gutters with beaded front edge.	m	96.00		
76	Extra over eaves gutter for outlet for 100 x 75mm pipe.	No	10.00		
77	100 x 75mm Rainwater pipe.	m	27.00		
78	Extra over rainwater pipe for shoe.	No	10.00		
79	Extra over rainwater pipe for eaves or plinth offset 600mm projection.	No	10.00		
80	Extra over eaves gutter for angle.	No	10.00		
	<u>Fire appliances, etc.</u>				
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	4.00		
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	1.00		
	<u>BILL NO 13: GLAZING</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>Glass in steel fixed with putty</u>				
83	5mm Clear Float glass fixed with glazing putty exceeding fixed with 0,5m ² and not exceeding 2m ²	m2	60.00		
	<u>BILL NO 14: PAINTWORK</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>PAINT ON PLASTER, ETC.</u>				
	Carried Forward			R	
	Section No. 13 Bill No. 1 1 x 4 Classroom Block Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward		
	<u>Prepare and apply one merit universal undercoat and two coats "Polvin" super acrylic PVA paint</u>		
84	On walls	m2	206.00
	<u>PAINT ON FIBRE CEMENT</u>		
	<u>Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use</u>		
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	45.00
	<u>PAINT ON GYPSUM SURFACES</u>		
	<u>Prepare, stop and apply two full coats semi-gloss PVA co-polymer paint to comply with SABS Specification No. 643</u>		
86	On internal plasterboard ceilings including priming steel joints and nail heads with one coat zinc phosphate alkyd resin primer	m2	308.00
	<u>PAINT ON METAL</u>		
	<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	8
88	Window burglars and frames	m2	60
89	(Provisional)		
	Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	55
	<u>Prepare and apply one coat universal undercoat, two coats gloss enamel paint.</u>		
90	On pressed steel door frames	m2	22.00
	<u>PAINT ON WOOD</u>		
	<u>Prepare and apply one coat wood primer</u>		
	Carried Forward		

R

R

Section No. 13
 Bill No. 1
 1 x 4 Classroom Block
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Brought Forward

R

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

91

On doors

m2

15.00

Carried to Final Summary

R

Section No. 13

Bill No. 1

1 x 4 Classroom Block

Independent Development Trust

Tshembhani Primary School Provisional Bill of Quantities

Item No		Quantity	Rate	Amount
	<p><u>MULTI-PURPOSE CLASSROOM</u></p> <p><u>BILL NO 1: EARTHWORKS (PROVISIONAL)</u></p> <p><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u></p> <p><u>Foundation brickwork and concrete walls have been measured to top of unfinished floor level</u></p> <p><u>EARTHWORKS</u></p> <p><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></p> <p><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></p>			
	Carried Forward		R	
	<p>Section No. 14</p> <p>Bill No. 1</p> <p>Multi-purpose Classroom</p> <p>Independent Development Trust</p> <p>Tshembhani Primary School Provisional Bill of Quantities</p>			

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	Trenches	m3	67.00	
2	Reducing levels	m3	25	
<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	34.00	
<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	7.00	
5	Extra over excavations in earth for trenches and holes for excavations in hard rock	m3	3.50	
<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	166.00	
<u>Keeping excavations free of water</u>				
7	Allow for keeping excavations free of all water other than subterranean water		Item	
<u>Filling, etc.</u>				
8	Backfilling from the excavations to trenches and holes compacted to 90% modified AASHTO density	m3	33.00	
Carried Forward			R	
Section No. 14 Bill No. 1 Multi-purpose Classroom Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward			R	
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	25.00		
	<u>Tests</u>				
10	Tests to determine the degree of compaction, etc. of ground or filling	No	5.00		
	<u>Protection against termites</u>				
11	Poisoning surface of ground in bottoms of trenches, bases, etc.	m2	285.00		
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	162.00		
	<u>BILL NO 2: CONCRETE, FORMWORK AND REINFORCEMENT</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>CONCRETE</u>				
	<u>Concrete test cubes</u>				
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	5.00		
	<u>REINFORCED CONCRETE</u>				
	<u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 20MPa at 28 days</u>				
14	In apron slabs	m3	4.00		
15	In surface beds cast on waterproofing	m3	24.00		
16	In stairs	m3	2.00		
	Carried Forward			R	
	Section No. 14 Bill No. 1 Multi-purpose Classroom Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward			R	
17	In ramps	m3	9		
	<u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25MPa at 28 days</u>				
18	In footings to walls cast against excavated surfaces, stepped and levelled	m3	18.00		
	<u>Sundries</u>				
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	205.00		
	<u>FORMWORK</u>				
	<u>Rough Formwork</u>				
20	Edges, risers, ends and reveals not exceeding 300mm high	m	53		
	<u>Movement joints</u>				
21	Movement joint not exceeding 300mm high formed of 10mm 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	111.00		
	<u>Expansion joints with 10mm softboard between vertical concrete surfaces, including necessary formwork</u>				
22	Not exceeding 300mm high to edges of surface beds	m	45		
	<u>REINFORCEMENT</u>				
	<u>Steel reinforcement to structural concrete work</u>				
23	All diameter bars	t	3.780		
	Carried Forward				
	Section No. 14 Bill No. 1 Multi-purpose Classroom Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				
				R	

	Brought Forward			R	
	<u>Fabric reinforcement</u>				
24	Type 395 fabric reinforcement in concrete surface beds, etc.	m2	153.00		
	<u>BILL NO 3: MASONRY</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>BRICKWORK IN FOUNDATION</u>				
25	One brick wall	m2	21		
	<u>BRICKWORK IN BURNT CLAY BRICKS IN (5:1) CEMENT MORTAR</u>				
26	Half brick wall in beamfilling	m2	10.00		
27	One brick wall	m2	148.00		
28	Piers	m3	2		
	<u>BRICK REINFORCEMENT</u>				
29	Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	30.00		
30	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	442.00		
	<u>TEMPORARY TURNING PIECES, ETC.</u>				
31	To flat brick lintels not exceeding 300mm wide	m	18.00		
	<u>SUNDRIES</u>				
32	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	114.00		
	Carried Forward			R	
	Section No. 14 Bill No. 1 Multi-purpose Classroom Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward			R	
	<u>AIR BRICKS</u>				
33	229 x 76mm Terra-cotta vermin proof air brick with gauze backing and building into opening in brickwork in cement mortar	No	12.00		
	<u>FACED BRICKWORK</u>				
	<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>				
	<u>Extra over brickwork for face brickwork in foundation</u>				
34	Extra over ordinary brickwork for facing and pointing in stretcher bond	m2	21.00		
	<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>				
35	Extra over ordinary brickwork for facing and pointing in stretcher bond	m2	74.00		
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	18.00		
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	15.00		
	<u>Sundries</u>				
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	1.00		
	Carried Forward			R	
	Section No. 14 Bill No. 1 Multi-purpose Classroom Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

Brought Forward			R
<u>BILL NO 4: WATERPROOFING</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>DAMP-PROOFING TO WALLS</u>			
39	375 Micron embossed black polyethylene damp-proof course to walls, cills, etc. (measured net)	m2	162.00
<u>DAMP-PROOFING UNDER FLOORS, ETC.</u>			
<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>			
40	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	13.00
<u>BILL NO 5: ROOF COVERINGS</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>PROFILED METAL SHEETING AND ACCESSORIES</u>			
<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>			
<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>			
<u>Where roof coverings are fixed on top of rigid board insulation to purlins etc descriptions of roof coverings are to include therefore</u>			
Carried Forward			R
Section No. 14 Bill No. 1 Multi-purpose Classroom Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

	Brought Forward			R
	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.			
41	Roof sheeting with pitch not exceeding 9° fixed to timber purlins (elsewhere)	m2	248.00	
	<u>'Klip-Lok 406' Flashings:</u>			
42	Ridge capping 550mm girth, three times bent along girth and notched on site to suit roof profile	m	27.00	
43	Hip capping 550mm girth, three times bent along girth and notched on site to suit roof profile.	m	7.00	
	<u>ROOF AND WALL INSULATION</u>			
	<u>Cellulose Ceiling or similar approved (Architect to advise)</u>			
44	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	248	
	<u>ROOF VENTILATORS</u>			
	<u>Galvanized steel louvred ventilators:</u>			
45	Triangular shaped steel fixed louvred ventilator size 2100mm wide at base x 450mm high fixed into timber roof trusses.	No	2.00	
	<u>BILL NO 6: CARPENTRY AND JOINERY</u>			
	Carried Forward			R
	Section No. 14 Bill No. 1 Multi-purpose Classroom Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Brought Forward			R
<u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u>			
<u>ROOFS, ETC.</u>			
<u>Plate nailed timber roof truss construction</u>			
46	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: 16.37 x 11.74m	No	1.00
<u>WOOD PRESERVATIVE</u>			
47	Two coats wood preservative applied hot on wrought exposed roof timbers	m2	12.00
<u>FASCIAS AND BARGEBOARDS</u>			
<u>Tempered fibre-cement</u>			
48	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
<u>DOORS</u>			
<u>NOTE</u> <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>			
Solid framed & Braced Door, Finish with 1 coat universal undercoat and 2 coats acrylic PVA, Colour white, or to Architects Approval			
49	40mm Standard made Solid Framed and Braced Door 914 x 2032mm high. Code SA06a	No	2
Carried Forward			R
Section No. 14 Bill No. 1 Multi-purpose Classroom Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

	Brought Forward			R	
	<u>Purpose Made Semi-Solid Medium Duty flush panel door leaf. 40mm thick with Masonite veneer faces suitable for painting and edges to match veneer.</u>				
50	40mm Purpose Made Semi-solid Medium Duty flush panel door leaf 914 x 2032mm high. Code SA12	No	1		
	<u>Standard Semi-solid Medium Duty flush panel door leaf. 40mm thick with Masonite veneer faces suitable for painting and edges to match veneer.</u>				
51	40mm Standard made Solid Framed and Braced Door 1511 x 2032mm high. Code SB02	No	1		
	<u>Nu-tec Board</u>				
52	20mm thick nu-tec boards as internal window cill	m	15		
	<u>JOINERY FITTINGS</u>				
	<u>THE FOLLOWING IN PINNING BOARDS</u>				
	<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</u>				
	<u>Pinning boards</u>				
53	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	1.00		
	<u>Interactive Whiteboard</u>				
54	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	1.00		
	<u>BILL NO 7: CEILINGS, PARTITIONS AND ACCESS FLOORING</u>				
	Carried Forward			R	
	Section No. 14 Bill No. 1 Multi-purpose Classroom Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

Brought Forward			R
NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill			
<u>TIMBER</u> : All softwood to be South African Pine			
<u>CEILINGS</u>			
<u>Mineral wool insulation</u>			
55	50mm Insulation closely fitted and laid on top of branderling between roof timbers etc.	m2	137.00
<u>6mm "Nu-tec" pressed fibre-cement boards with H- type pressed steel jointing strips</u>			
56	Ceilings including H-type pressed steel jointing strips and 38 x 38mm sawn softwood banderling at 400mm centres in one direction and around edges where required for fixing cornices, securely spiked to roof timbers	m2	137.00
57	Extra over fibre-cement ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	3.00
<u>"Rhino" Gypsum plasterboard cornices</u>			
58	75mm Coved cornices	m	102.00
<u>BILL NO 8: IRONMONGERY</u>			
<u>NOTE</u> : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill			
<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>			
Carried Forward			R
Section No. 14 Bill No. 1 Multi-purpose Classroom Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Brought Forward			R
<u>"Union" or similar approved</u>			
59	100mm mild steel butterfly hinges	No	12.00
60	20mm diameter bullet-hinges	Pairs	3.0
61	3 x M/S parliament hinges per door leaf.	No	3
<u>LOCKS</u>			
62	Solid Blesbok / Tarpon. 460/313 Four Lever Lockset	No	4.00
<u>SUNDRIES</u>			
63	Stainless steel half moon door stop or similar approved, plugged and screwed to floor	No	4
<u>NUMERAL AND NAME PLATES</u>			
<u>Indicator plates countersunk holed for and screwed to door or brickwork with chromium plated dome-headed screws</u>			
64	190 x 190 x 3mm Thick white perspex international FB2 sign plate with red fire extinguisher symbol plugged to brickwork	No	1.00
<u>BILL NO 9: METALWORK</u>			
<u>NOTE</u>			
<u>: Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u>			
<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>			
65	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	2.00
Carried Forward			R
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Brought Forward		
<u>The following in walkway roof support steelwork</u>		
66	100 x 100 x 5mm Square hollow section posts	m 31.00
<u>DOOR FRAMES, DOORS, WINDOWS, ETC.</u>		
<u>PRESSED STEEL DOOR FRAMES</u>		
<u>1,2mm thick pressed metal steel frame with double rebate complete with lugs and base ties as supplied by manufacturer suitable for 230mm wall.</u>		
67	Door frame for door size 978 x 2,064m	No 3.00
<u>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>		
68	Door frame for door size 1575 x 2,064m	No 1
<u>STEEL WINDOWS</u>		
<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>		
<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>		
<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>		
<u>Standard residential type steel windows with burglar bars to fixed and opening sections</u>		
69	Window type code TS31 size 1 143 x 1 311m High	No 13.00
Carried Forward		
Section No. 14 Bill No. 1 Multi-purpose Classroom Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities		

R

R

	Brought Forward			R
	<u>STEEL WINDOW SUNDRIES</u>			
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	20	
71	Extra for flat closed end	No	13.00	
	<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>(3:1) CEMENT SCREEDS TO CONCRETE</u>			
	<u>23mm Thick</u>			
72	On floors to receive vinyl or ceramic floor tiles (elsewhere measured)	m2	162.00	
	<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>			
73	On walls	m2	84.00	
74	On narrow widths	m2	6.00	
	<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>			
	<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>			
75	On floors	m2	105.00	
	Carried Forward			R
	Section No. 14 Bill No. 1 Multi-purpose Classroom Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

	Brought Forward			R
76	To Skirtings 100mm high	m	60.00	
	<u>BILL NO 12: PLUMBING AND DRAINAGE (PROVISIONAL)</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>RAINWATER DISPOSAL</u>			
	<u>Ogee profile aluminium finish to match roof sheeting:</u>			
77	100 x 75mm Eaves gutters with beaded front edge.	m	57.00	
78	Extra over eaves gutter for angle.	No	6.00	
79	Extra over eaves gutter for outlet for 100 x 75mm pipe.	No	6.00	
80	100 x 75mm Rainwater pipe.	m	16.00	
81	Extra over rainwater pipe for shoe.	No	6.00	
82	Extra over rainwater pipe for eaves or plinth offset 600mm projection.	No	6.00	
	<u>Fire appliances, etc.</u>			
83	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	1.00	
84	"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	
	<u>BILL NO 13: GLAZING</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. 14 Bill No. 1 Multi-purpose Classroom Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

	Brought Forward			R	
	<u>Glass in steel fixed with putty</u>				
85	5mm Clear Float glass fixed with glazing putty exceeding fixed with 0,5m ² and not exceeding 2m ²	m2	20.00		
	<u>BILL NO 14: PAINTWORK</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>PAINT ON PLASTER, ETC.</u>				
	<u>Prepare and apply one merit universal undercoat and two coats "Polvin" super acrylic PVA paint</u>				
86	On walls	m2	84.00		
	<u>PAINT ON FIBRE CEMENT</u>				
	<u>Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use</u>				
87	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	14.00		
	<u>PAINT ON GYPSUM SURFACES</u>				
	<u>Prepare, stop and apply two full coats semi-gloss PVA co-polymer paint to comply with SABS Specification No. 643</u>				
88	On internal plasterboard ceilings including priming steel joints and nail heads with one coat zinc phosphate alkyd resin primer	m2	137.00		
	<u>PAINT ON METAL</u>				
	<u>Prepare, touch up factory primer and apply one coat universal undercoat and two full coats high gloss enamel paint</u>				
89	Doors with burglar bars	m2	18		
90	Window burglars and frames	m2	20		
	Carried Forward			R	
	Section No. 14 Bill No. 1 Multi-purpose Classroom Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward			R
91	(Provisional)			
	Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	8	
	<u>Prepare and apply one coat universal undercoat, two coats gloss enamel paint.</u>			
92	On pressed steel door frames	m2	6.00	
	<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>			
93	On doors	m2	18.00	
Carried to Final Summary				R
Section No. 14				
Bill No. 1				
Multi-purpose Classroom				
Independent Development Trust				
Tshembhani Primary School Provisional Bill of Quantities				

Item No		Quantity	Rate	Amount
	<p><u>ADMIN BUILDING</u></p> <p><u>BILL NO 1: EARTHWORKS (PROVISIONAL)</u></p> <p><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u></p> <p><u>Foundation brickwork and concrete walls have been measured to top of unfinished floor level</u></p> <p><u>EARTHWORKS</u></p> <p><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></p> <p><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></p>			
	Carried Forward		R	
	<p>Section No. 15</p> <p>Bill No. 1</p> <p>ADMIN BUILDING</p> <p>Independent Development Trust</p> <p>Tshembhani Primary School Provisional Bill of Quantities</p>			

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	72.00	
<u>Carting away of excavated material</u>				
2	Trenches	m3	102.00	
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	26.00	
<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	11.00	
5	Extra over excavations in earth for trenches and holes for excavations in hard rock	m3	6.00	
<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	441.00	
<u>Keeping excavations free of water</u>				
7	Allow for keeping excavations free of all water other than subterranean water		Item	
<u>Filling, etc.</u>				
8	Backfilling from the excavations to trenches and holes compacted to 93% modified AASHTO density	m3	54.00	
Carried Forward			R	
Section No. 15 Bill No. 1 ADMIN BUILDING Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward			R	
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	72.00		
	<u>Tests</u>				
10	Tests to determine the degree of compaction, etc. of ground or filling	No	4.00		
	<u>Protection against termites</u>				
11	Poisoning surface of ground in bottoms of trenches, bases, etc.	m2	441.00		
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	319.00		
	<u>BILL NO 2: CONCRETE, FORMWORK AND REINFORCEMENT</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>Concrete test cubes</u>				
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		
	<u>REINFORCED CONCRETE</u>				
	<u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 20MPa at 28 days</u>				
14	In aprons slabs	m3	13.00		
15	In surface beds cast on waterproofing	m3	46.00		
16	In ramps	m3	5.00		
17	2m wide x 3m long x 2.7m High Strong Room with 230mm Thick Concrete Walls	m3	7		
	Carried Forward			R	
	Section No. 15 Bill No. 1 ADMIN BUILDING Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward			R	
	<u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25MPa at 28 days</u>				
18	In footings to walls cast against excavated surfaces, stepped and levelled	m3	26.00		
	<u>Sundries</u>				
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
19	Surface beds, slabs, etc.	m2	270.00		
20	Aprons to a non - slip finish	m2	70.00		
	<u>FORMWORK</u>				
	<u>Rough Formwork</u>				
21	Edges, risers, ends and reveals not exceeding 300mm high	m	81.00		
	<u>Movement Joints</u>				
22	Movement joint not exceeding 300mm wide formed of 10mm bitumen impregnated softboard placed vertically in position between concrete bases	m	320.00		
	<u>REINFORCEMENT</u>				
	<u>Steel reinforcement to structural concrete work</u>				
23	All diameter bars	t	2.340		
	<u>Fabric reinforcement</u>				
24	Type 193 fabric reinforcement in concrete surface beds, aprons, etc.	m2	340.00		
	<u>BILL NO 3: MASONRY</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>IN FOUNDATIONS (PROVISIONAL)</u>				
	Carried Forward			R	
	Section No. 15 Bill No. 1 ADMIN BUILDING Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward			R
	<u>BRICKWORK IN BURNT CLAY BRICKS IN (5:1) CEMENT MORTAR</u>			
25	One brick wall	m2	126.00	
	<u>IN SUPERSTRUCTURE (PROVISIONAL)</u>			
	<u>BRICKWORK IN BURNT CLAY BRICKS IN (5:1) CEMENT MORTAR</u>			
26	Half brick wall	m2	122.00	
27	Half brick wall in beamfilling	m2	16.00	
28	One brick wall	m2	347.00	
29	Piers	m3	3	
	<u>BRICK REINFORCEMENT</u>			
30	Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	406.00	
31	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	1,021.00	
	<u>TEMPORARY TURNING PIECES, ETC.</u>			
32	To flat brick lintels not exceeding 300mm wide	m	52.00	
	<u>SUNDRIES</u>			
	<u>Hoop iron iron roof ties</u>			
33	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	184.00	
	<u>Nutec fibre-cement sills in single lengths bedded in class I mortar including metal fixing lugs, etc</u>			
34	15 x 150mm Wide sills set flat and slightly projecting bedded in cement mortar	m	52.00	
	<u>FACED BRICKWORK</u>			
	Carried Forward			R
	Section No. 15 Bill No. 1 ADMIN BUILDING Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Brought Forward			R
<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>Extra over brickwork for face brickwork</u>			
35	Extra over ordinary brickwork for facing and pointing in stretcher bond in foundations	m2	63.00
36	Extra over ordinary brickwork for facing and pointing in stretcher bond	m2	174.00
37	Extra over ordinary brickwork in piers for facing and pointing in stretcher bond	m2	14.00
38	Extra over ordinary brickwork in beamfilling for facing and pointing in stretcher bond	m2	61.00
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	52.00
40	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	39.00
<u>BILL NO 4: WATERPROOFING</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>DAMP-PROOFING TO WALLS</u>			
41	375 Micron embossed black polyethylene damp-proof course to walls, cills, etc. (measured net)	m2	70.00
<u>DAMP-PROOFING UNDER FLOORS, ETC.</u>			
Carried Forward			R
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	Brought Forward			R
	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.			
43	Roof sheeting with pitch not exceeding 9° fixed to timber purlins (elsewhere)	m2	474.00	
	<u>'Klip-Lok 406' Flashings:</u>			
44	Gable trim 370mm girth three times bent to detail and fixed to roof sheeting (elsewhere)	m	19.00	
45	Ridge covering 450mm girth and fixed to timber purlins (elsewhere)	m	24.00	
46	Hip covering 450mm girth and fixed to timber purlins (elsewhere)	m	25	
	<u>ROOF AND WALL INSULATION</u>			
	<u>Sisalation 410 Insulation</u>			
47	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	474	
	<u>ROOF VENTILATORS</u>			
	<u>Galvanized steel louvred ventilators:</u>			
48	Triangular shaped steel fixed louvred ventilator size 2100mm wide at base x 450mm high fixed into timber roof trusses.	No	2.00	
	Carried Forward			R
	Section No. 15 Bill No. 1 ADMIN BUILDING Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Brought Forward				R
<u>BILL NO 6: CARPENTRY AND JOINERY</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>ROOFS, ETC.</u>				
<u>Plate nailed timber roof truss construction</u>				
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: 31.03 x 11.70m with 0.5m overhangs at eaves with porches on both sides size 1.44 x 3.24m	No	1.00	
<u>FASCIAS AND BARGEBOARDS</u>				
<u>Tempered fibre-cement</u>				
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	98.00	
<u>SKIRTINGS</u>				
<u>Wrought Meranti</u>				
51	19 x 76mm Skirting nailed to walls with heads of nails punched and filled including 19mm quadrant bead planted on at junction with floor	m	218.00	
<u>JOINERY FITTINGS</u>				
<u>THE FOLLOWING IN PINNING BOARDS</u>				
<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</u>				
Carried Forward				R
Section No. 15 Bill No. 1 ADMIN BUILDING Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

Brought Forward			R
<u>Pinning boards</u>			
52	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	7.00
<u>THE FOLLOWING IN SHELVING IN STORE ROOMS</u>			
<u>Melamine shelving</u>			
53	4 Rows 450mm wide x 16mm thick melamine shelving on wall bands and brackets at 600mm centres	m	10.00
<u>THE FOLLOWING IN KITCHEN FITTINGS</u>			
<u>Formica worktops</u>			
54	Floor cabinets on levellers with Formica worktops over, complete with aluminium skirtings, to receive drop in sink (elsewhere measured)	m	4.00
<u>THE FOLLOWING IN RECEPTION / CLERK OFFICE</u>			
<u>Formica worktops</u>			
55	5 200mm Long x 600mm wide x 32mm thick Formica worktop on powder coated steel brackets including 1 x F450/3 drawer unit	No	1.00
<u>THE FOLLOWING IN PRINCIPAL OFFICE</u>			
<u>Formica worktops</u>			
56	5 300mm Long storage cupboards on levellers with 32mm thick Formica worktop over	No	1.00
<u>THE FOLLOWING IN VICE PRINCIPAL OFFICE</u>			
<u>Formica worktops</u>			
57	2 400mm Long storage cupboards on levellers with 32mm thick Formica worktop over	No	1.00
<u>THE FOLLOWING IN SHELVING IN STRONG ROOM</u>			
Carried Forward			R
Section No. 15 Bill No. 1 ADMIN BUILDING Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

	Brought Forward			R	
	<u>Melamine shelving</u>				
58	4 Rows 300mm wide x 16mm thick melamine shelving on wall bands and brackets at 600mm centres	m	6.00		
	<u>THE FOLLOWING IN PRINT ROOM</u>				
	<u>Formica worktops</u>				
59	2 800mm x 600mm Wide x 32mm thick Formica worktop over floor cabinets	No	1.00		
	<u>BUILT IN CUPBOARDS</u>				
	<u>Wrought softwood</u>				
60	Built-in cupboards approximately 2.800m high	m	5.00		
	<u>SEATING</u>				
	<u>Wrought softwood</u>				
61	Slatted seats, etc of 20 x 75mm slats at 100mm centres fixed to walls with approved brackets	m	9.00		
	<u>TIMBER DOORS, WINDOWS, ETC</u>				
	<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				
	<u>DOORS ETC</u>				
	<u>Solid Core flush doors with commercial veneer, hung to steel frames</u>				
62	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		
	Carried Forward			R	
	Section No. 15 Bill No. 1 ADMIN BUILDING Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward			R
63	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 04)	No	1	
	<u>Solid meranti framed, ledged and braced batten doors with masonite veneer to internal face suitable for painting (painting elsewhere measured)</u>			
64	40mm Purpose made door 813 x 2032mm high (Type: SA 03)	No	3	
	<u>Nu-tec Board</u>			
65	20mm thick nu-tec boards as internal window cill	m	39	
	<u>BILL NO 7: CEILINGS, PARTITIONS AND ACCESS FLOORING</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>CEILINGS</u>			
	<u>NAILED UP CEILINGS</u>			
	<u>Mineral wool insulation</u>			
66	Cellulose ceiling insulation laid loose over ceiling in roof void	m2	338.00	
	<u>6mm "Nu-tec" pressed fibre-cement boards with H-type pressed steel jointing strips</u>			
67	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	338.00	
68	Extra over fibre-cement ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	5.00	
	Carried Forward			R
	Section No. 15 Bill No. 1 ADMIN BUILDING Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

	Brought Forward			R
	<u>"Rhino" Gypsum plasterboard cornices</u>			
69	75mm Coved cornices	m	245.00	
	<u>BILL NO 8: IRONMONGERY</u>			
	<u>NOTE : Tenderers are advised to study the</u> <u>"Specification of Materials and Methods to be used"</u> <u>(OOG-001E) before pricing this bill</u>			
	<u>Where ironmongery is described as plugged, prices</u> <u>are to include for screwing to and including</u> <u>approved patent plugs in concrete or brickwork with</u> <u>plaster or tiled finish</u>			
	<u>THE FOLLOWING IRONMONGERY FIXED TO</u> <u>DOORS, ETC.</u>			
	<u>HINGES</u>			
	<u>"Union" or similar approved</u>			
70	100mm Mild steel butterfly hinges	No	33.00	
	<u>LOCKS</u>			
	<u>"Solid"</u>			
71	"Solid Blesbok" / Tarpon. 460/313 Four Lever Lockset	No	11.00	
72	"Solid Blesbok" /195/01 Mortice WC Indicaor with Lock.	No	2	
73	Narrow style SANS approved double cylinder lockset	No	2	
	<u>HANDLES</u>			
	<u>Manufactured by Dormakaba or similar approved:</u>			
	<u>Lever handles:</u>			
74	Door handles to be double sided - satin chrome finish handles as per architect	No	2	
	Carried Forward			R
	Section No. 15 Bill No. 1 ADMIN BUILDING Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Brought Forward			R
75	CB30 Satin chrome lever on plate with cylinder cutout	No	11
<u>BATHROOM FITTINGS</u>			
<u>"Solid"</u>			
76	Lockable 3 roll toilet roll holder plugged	No	2.00
77	Wall mounted soap dispenser plugged to plastered or tiled walls	No	3.00
78	19mm Stainless steel chromium plated towel ring, 300mm diameter, with fixing bracket plugged to plastered or tiled wall	No	3.00
79	Paper towel dispenser plugged	No	3
80	Brass hat and coat hook with rubber buffer	No	3.00
<u>CATCHES, CABIN HOOKS, ETC</u>			
<u>Manufactured by Dormakaba or similar approved</u>			
81	Aluminium Hat & Coat Hook	No	2
<u>SUNDRIES</u>			
<u>"Union"</u>			
<u>Door Stop 140/83</u>			
82	Stainless steel half moon door stop or similar approved, plugged and screwed to floor	No	16
<u>Brass dividing strips</u>			
83	3 x 25mm Brass dividing strip between different floor finishes	m	16.00
<u>NUMERAL AND NAME PLATES</u>			
Carried Forward			R
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Brought Forward			R	
<u>STEEL WINDOWS</u>				
<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>				
<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>				
<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>				
<u>Standard mild steel Residential Top-hung open out window frames complete with burglar proofing out of 10mm diameter solid round bars</u>				
89	Window type TS20 size 1 511 x 1 264mm High (Product code SWE418/TD75)	No	14.00	
90	Window type TS21 size 1022 x 949mm High (Product code SWE37S/NCTX7S)	No	3.00	
91	Window type TS22 size 533 x 949mm High (Product code SWE31S/NCT1S)	No	5.00	
92	Window type TS23, size 1022 x 1264mm High (Product code SWE37S)	No	2.00	
<u>ALUMINIUM WINDOWS AND DOORS</u>				
<u>Extruded Aluminium frame as per AAMSA specifications.</u>				
93	Door size 1575 x 2100mm high (Door type AL01)	No	2.00	
Carried Forward			R	
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	Brought Forward			R
	<u>Purpose made extruded aluminium proposed frame according to AAMSA. Natural Anodised Aluminium Finish.</u>			
94	Window type TA20, size 1525 x 1190m high (Product code: Purpose made)	No	1.00	
95	Window type TA21, size 1625 x 1190m high (Product code: Purpose made)	No	1.00	
96	Window type TA22, size 2400 x 1190m high (Product code: Purpose made)	No	1.00	
	<u>STRONGROOM DOORS, WALL SAFES AND VENTILATORS</u>			
	<u>"Bishoff" or similar approved</u>			
97	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 VD01) Size: 2 134 x 2 134mm High	No	1.00	
	<u>SECURITY GATES</u>			
	<u>The following in twenty four framed and welded mild steel security gates and fixing in position complete</u>			
98	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.	No	2.00	
	<u>STEEL WINDOW SUNDRIES</u>			
99	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	
100	Extra for flat closed end	No	29.00	
	Carried Forward			R
	Section No. 15 Bill No. 1 ADMIN BUILDING Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

	Brought Forward			R
	<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>(3:1) CEMENT SCREEDS TO CONCRETE</u>			
	<u>25mm Thick</u>			
101	On floors to receive ceramic floor tiles (elsewhere measured)	m2	270.00	
	<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>			
	<u>FLOOR TILES</u>			
	<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>			
102	On floors	m2	270.00	
103	100mm High Skirting	m	215	
	<u>BILL NO 12: PLUMBING AND DRAINAGE (PROVISIONAL)</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>SOIL DRAINAGE</u>			
	<u>uPVC Pipes</u>			
104	100mm Pipes laid in and including trenches not exceeding 1m	m	50.00	
	Carried Forward			R
	Section No. 15 Bill No. 1 ADMIN BUILDING Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Brought Forward				R
<u>Extra over uPVC pipes for fittings</u>				
105	100mm Bend	No	6.00	
<u>uPVC gulleys</u>				
106	110mm Dished gully exceeding 750mm and not exceeding 1000mm deep	No	1.00	
<u>RAINWATER DISPOSAL</u>				
<u>0.58mm Galvanized sheet iron with Chromadek finish to match roof sheeting:</u>				
107	100 x 100mm Eaves gutters with beaded front edge	m	98.00	
108	Extra over rainwater pipe for eaves or plinth offset 600mm projection.	No	12.00	
109	Extra over 100 x 100mm eaves gutter for outlet for 100mm pipe	No	12.00	
110	100mm Diameter rainwater pipes	m	32.00	
111	Extra over 100mm rainwater pipe for bend	No	12.00	
112	Extra over 100mm rainwater pipe for shoe	No	12.00	
<u>SANITARY FITTINGS</u>				
113	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	
114	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	
115	Franke Kitchen Systems (t/a Citimetal) QUINLINE QLX611 (code 101.0039.859) Stainless steel single bowl sink. 900 x 500mm	No	1.00	
Carried Forward				R
Section No. 15 Bill No. 1 ADMIN BUILDING Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

Brought Forward			R
116	EBoil Bronze 10L Classic Mk11 . (Above all sinks)	No	1
<u>Traps, etc. including joints to steel pipes and/or fittings unless otherwise described</u>			
117	40mm Butyl rubber deep seal P or S trap	No	4.00
118	40-40mm Chromium plated bottle trap	No	4.00
<u>Valves, etc. including joints to steel pipes and/or fittings unless otherwise described</u>			
119	15mm Copper service pipe 350mm girth	m	45
120	15mm "Cobra 107" or similar approved Chromium plated hose union bib tap	No	3.00
121	15mm Chromium plated full way ball cock shut-off control valve with screw type control	No	3.00
122	15mm Chromium plated wall flange and extension piece	No	3.00
123	15mm chromium plated sink mixer	No	1
<u>SANITARY PLUMBING</u>			
<u>uPVC pipes</u>			
124	100mm uPVC Pipe laid in/under floors or fixed to walls, roof timbers, etc.	m	22.00
<u>Extra over uPVC pipes for fittings</u>			
125	100 x 50mm Reducer	No	2.00
126	100mm Bend	No	2.00
127	100mm Junction	No	2.00
128	100mm Pan connector	No	2.00
129	100mm VP stub stack fitting with ABC cleaning eye lid and multiple connections for 50mm waste	No	2.00
130	100mm Access bend	No	2.00
Carried Forward			R
Section No. 15 Bill No. 1 ADMIN BUILDING Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

	Brought Forward			R
131	100mm Access bend with anti-syphon horn	No	2.00	
132	100mm Access junction	No	2.00	
133	100mm Access reducing junction	No	2.00	
134	Two way uPVC air admittance valve suitable for 50mm pipe	No	2.00	
	<u>WATER SUPPLY</u>			
	<u>Class 3 copper pipes and fittings with capillary soldered connections</u>			
135	15mm Pipe chased into walls	m	45.00	
136	22mm Pipe chased into walls	m	31.00	
	<u>Extra over class 3 copper pipes for soldered capillary fittings</u>			
137	15mm Fittings	No	5.00	
138	22mm Fittings	No	7.00	
	<u>WATER SUPPLIES TO FIRE APPLIANCES</u>			
	<u>Galvanized mild steel pipes</u>			
139	50mm Pipe laid in and including trenches not exceeding 1000mm deep	m	46.00	
140	40mm Pipe laid in/under floors or fixed to walls, roof timbers, etc.	m	35.00	
	<u>Extra over galvanized mild steel pipes for:</u>			
141	40mm Bends	No	10.00	
142	40mm Bush	No	10.00	
143	40mm Socket union	No	10.00	
144	50mm Bends	No	10.00	
145	50mm Bush	No	10.00	
	Carried Forward			R
Section No. 15 Bill No. 1 ADMIN BUILDING Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

Brought Forward			R
<u>Fire appliances etc.</u>			
146	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
147	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
<u>HOT WATER CYLINDERS</u>			
<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>			
148	150 Litre Hot water cylinder	No	1.00
<u>TESTING</u>			
149	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>BUILDER'S WORK, INCLUDING ALL MAKING GOOD MASONRY</u>			
150	Fair cutting and fitting of facings around pipe not exceeding 100mm diameter	No	10.00
<u>PAINTWORK</u>			
<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>			
151	Pipe not exceeding 300mm girth	m	75.00
<u>BILL NO 13: GLAZING</u>			
Carried Forward			R
Section No. 15 Bill No. 1 ADMIN BUILDING Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Brought Forward			R	
NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill				
<u>GLAZING TO STEEL WITH PUTTY</u>				
<u>6mm TINTED float sheet glazing secured in frame with natural anodised aluminium glazing beads according to manufacturer's specification.</u>				
152	Panes exceeding 0,5m ² and not exceeding 2m ²	m2	4.00	
<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>				
153	Panes exceeding 2m ² and not exceeding 4m ²	m2	3.00	
<u>5mm Clear Float glass fixed with glazing putty. Putty to receive paint finish to match window frame</u>				
154	Panes exceeding 0,5m ² and not exceeding 2m ²	m2	30	
<u>5mm Obscure glass fixed with glazing putty. Putty to receive paint finish to match window frame.</u>				
155	Panes exceeding 0,5m ² and not exceeding 2m ²	m2	3	
<u>5mm Clear Float glass fixed with glazing putty. Putty to receive paint finish to match window frame.</u>				
156	Panes exceeding 0,5m ² and not exceeding 2m ²	m2	3	
<u>Mirrors</u>				
157	Mirror 400 x 600 mm high fixed to wall	No	3.00	
<u>BILL NO 14: PAINTWORK</u>				
Carried Forward			R	
Section No. 15 Bill No. 1 ADMIN BUILDING Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

User note

Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions

Take note that these Model Bills of Quantities utilise abbreviated descriptions

*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. **Where such model preambles are not applicable** (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*

Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008

Attention is drawn to the measurement rules in the measuring system regarding paint colours which read as follows:

"4. 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)"

and

"5. Paintwork in one colour group may be given as extra over paintwork in another colour group"

SUPPLEMENTARY PREAMBLES**PREPARATORY WORK TO EXISTING WORK**

Section No. 15

Bill No. 1

ADMIN BUILDING

Independent Development Trust

Tshembhani Primary School Provisional Bill of Quantities

Brought Forward			R
<u>Previously painted plastered surfaces</u>			
Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth			
<u>Previously painted metal surfaces</u>			
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal			
<u>Previously painted wood surfaces</u>			
Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth			
<u>PAINT SPECIFICATIONS</u>			
All painting shall be done in accordance with specifications unless otherwise described			
<u>COLOURS</u>			
<u>User note</u>			
<u>PAINTWORK ETC TO NEW WORK</u>			
<u>ON FIBRE-CEMENT BOARD SURFACES</u>			
<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>			
158	Ceilings and cornices, including priming metal cover strips and nail heads	m2	308
159	Fascias and barge boards including priming metal jointing strips	m2	45
<u>ON METAL SURFACES</u>			
Carried Forward			R
Section No. 15 Bill No. 1 ADMIN BUILDING Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Brought Forward				R
	<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel</u>			
160	Steel gates	m2	14	
161	Door frames	m2	22	
162	Windows with burglar bars	m2	43	
163	Rainwater downpipes not exceeding 300mm girth	m	32	
<u>ON WOOD SURFACES</u>				
	<u>Three coats superior quality clear gloss varnish</u>			
164	Doors	m2	36	
165	Roof timbers at eaves and verges (Provisional)	m2	28	
166	Skirtings, rails, etc not exceeding 300mm girth	m	218	
Carried to Final Summary				R
Section No. 15				
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ADMIN BUILDING				
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Tshembhani Primary School Provisional Bill of Quantities				

Item No		Quantity	Rate	Amount
	<u>EXTERNAL WORKS</u>			
	<u>HAULAGE</u>			
	<u>Reference to haulage in SABS Specification 1200 shall not apply. All movement of material shall be regarded as free haul.</u>			
	<u>MEASUREMENT AND PAYMENT</u>			
	<u>Clause B relating to "Measurement and Payment" of SABS Specification 1200 shall not apply.</u>			
	<u>PRECAST CONCRETE KERBS</u>			
	<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>			
	<u>COVERED PARKING BAYS</u>			
	<u>EXCAVATION, FILLING, ETC, OTHER THAN BULK</u>			
	<u>KERBS, ETC.</u>			
	<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>			
	<u>MAINTENANCE OF ROADWORKS</u>			
	<u>Maintenance period for civil works such as roads, parking and related earthworks shall be three (3) calendar months.</u>			
	<u>EARTHWORKS :</u>			
	<u>ROAD MARKING</u>			
1	Provide the sum of R 50 000.00 for Reflectorised paint applied at nominal rate of 0.42 l/m ² white and yellow characters and symbols		SUM	
	Carried Forward		R	
	Section No. 16 Bill No. 1 EXTERNAL WORKS Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Brought Forward			R
<u>SITE CLEARANCE, ETC</u>			
<u>Site Clearance</u>			
2	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	3,178
3	Stripping average 150mm thick layer of top soil and depositing material in prescribe stock piles on site	m2	3,178
<u>EXCAVATION, FILLING, ETC</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
4	Trenches	m3	286
<u>Extra over bulk excavations in earth for excavation in</u>			
5	Soft rock	m3	29
6	Hard rock	m3	15
<u>Risk of collapse of excavations</u>			
7	Sides of trench excavations not exceeding 1,5m deep	m2	763
<u>Keeping excavations free of water</u>			
8	Keeping excavations free of all water other than subterranean water	Item	
<u>FILLING ETC</u>			
<u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 90% MOD AASHTO Density</u>			
9	Exceeding 500mm and not exceeding 1.5m deep for placing and removing formwork to trenches 250mm away from excavated surface	m2	763
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density</u>			
10	Backfilling to trenches, holes, etc	m3	279
Carried Forward			R
Section No. 16 Bill No. 1 EXTERNAL WORKS Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Brought Forward

R

Cost of tests

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)

Breeze concrete

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

Formwork

Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use

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

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

Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described

Carried Forward

R

Section No. 16

Bill No. 1

EXTERNAL WORKS

Independent Development Trust**Tshembhani Primary School Provisional Bill of Quantities**

	Brought Forward			R	
	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"				
	<u>UNREINFORCED CONCRETE CAST ON WATERPROOFING PANELS AGAINST EXCAVATED SURFACES</u>				
	<u>15MPa/19mm concrete</u>				
17	Surface blinding under footings and bases	m3	20		
	<u>REINFORCED CONCRETE CAST ON WATERPROOFING PANELS AGAINST EXCAVATED SURFACES</u>				
	<u>25MPa/19mm concrete</u>				
18	Foundation Footings	m3	99		
19	Walkway Slab	m3	70		
	<u>TEST CUBES</u>				
20	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	6		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
21	Surface beds, slabs, etc to falls and currents	m2	826		
	<u>Finishing top surfaces of concrete smooth with a power float</u>				
22	Surface beds, slabs, etc to falls and currents	m2	826		
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>				
	Carried Forward			R	
	Section No. 16 Bill No. 1 EXTERNAL WORKS Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

	Brought Forward			R
	<u>Rough formwork to sides</u>			
23	Formwork to edges,Risers ends and Reveals not exceeding 300mm high	m	531	
	<u>MOVEMENT JOINTS ETC</u>			
	<u>Expansion joints with 10mm closed cell expanded polyethylene between vertical concrete and brick surfaces</u>			
24	Not exceeding 300mm high to edges of surface beds	m	502	
	<u>REINFORCEMENT</u>			
	<u>REINFORCEMENT (PROVISIONAL)</u>			
	<u>Fabric reinforcement</u>			
	<u>User note</u>			
	<i>The following types of fabric reinforcement are normally specified:</i>			
	<i>Types 100, 193, 245, 311 and 395</i>			
25	100mm fabric reinforcement in concrete surface beds etc	m2	826	
	<u>Mild steel reinforcement to structural concrete work</u>			
26	Mild steel reinforcement in concrete work	t	6.00	
	<u>High tensile steel reinforcement to structural concrete work</u>			
27	High tensile steel reinforcement in concrete work	t	6.00	
	<u>MASONRY</u>			
	<u>BRICKWORK</u>			
	Carried Forward			R
	Section No. 16			
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	Tshembhani Primary School Provisional Bill of Quantities			

Brought Forward			R	
<u>Sizes in descriptions</u>				
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick				
<u>Face bricks</u>				
Bricks shall be ordered timeously to obtain uniformity in size and colour				
<u>Pointing</u>				
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
<u>BRICKWORK</u>				
<u>SUPERSTRUCTURE</u>				
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar in load bearing walls, etc</u>				
28	One brick walls	m2	249	
<u>ROADWORK, PARKING AREAS AND PAVING</u>				
<u>Site clearance</u>				
29	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	1,088	
<u>SITE PREPARATION</u>				
<u>Remove topsoil to nominal depth and spoil to designated spoil area: (Free haul distance 5km) The rate will include removal haulage</u>				
30	100mm Thick over area indicated on Earthworks and roads drawings layouts	m	109	
<u>ROAD-BED PREPARATION</u>				
Carried Forward			R	
Section No. 16				
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	Brought Forward			R
	<u>Road-bed preparation in 150mm layers to 95% Mod AASHTO Density</u>			
31	300mm Thick imported natural gravel (G5) compacted to 95% of Mod AASHTO density or as indicated by the engineer's representative in the site instruction book to a depth of 150mm (Unless sated otherwise by the engineer in the site instruction book)	m3	326	
	<u>BULK EXCAVATION</u>			
	<u>Cut to fill or borrow to fill from contractor's own source: (Within free haul distance 5km)</u>			
32	Selected in-situ natural gravel fill of (Min.G9) below sub-grade level from designated excavated material and compact to 93% Mod AASHTO density in layers not exceeding 150mm thick	m3	163	
33	Long overhaul (10km) (Free haul distance 2km)	m3	1	
	<u>SURFACE FINISHES</u>			
34	20mm thick sand bedding	m3	22	
35	Fill behind kerbs, G5 material, 150mm thickness to 93% Mod AASHTO Density, to correct levels and falls	m3	3	
	<u>SEGMENTED PAVING</u>			
	<u>Construct precast concrete segmented paving complete. All concrete paving blocks shall comply to SABS 1058 on areas as shown on DWG. CIV 200, Pattern to be herringbone unless otherwise and approval of engineer</u>			
36	Type S - A interlocking paving blocks 60mm thick and in colours: Grey, complete	m2	1,091	
	<u>CUT UNITS TO FIT EDGE RESTRAINTS</u>			
37	For type S - A, interlocking double Zig-Zag, 60mm	m	136	
38	Precast mountable kerb to (Fig.7 Kerb)	m	141	
39	Edge restraints, 200mm (Wide) x 300mm (Deep) Grade 20/19 complete with construction joint at every 3000mm for the entire length of the restraints	m3	9	
	Carried Forward			R
	Section No. 16 Bill No. 1 EXTERNAL WORKS Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Brought Forward			R	
<u>PROFILED FIBRE-CEMENT SHEETING AND ACCESSORIES</u>				
40	Provide the sum of R 50 000.00 for roof sheeting to carports		SUM	
<u>FENCING</u>				
41	Fencing barrier 1800mm high, comprising steel palisade fence including pipe posts, intermediates, stays, gates, etc.	m	570.00	
42	Extra over fencing barrier for 1200mm wide x 2400mm 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	
43	Fencing barrier 1200mm high, comprising steel palisade fence including pipe posts, intermediates, stays, gates, etc.	m	132	
44	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	
<u>RAINWATER HARVESTING</u>				
45	Supply 5000l JOJO tanks to be placed on precast concrete plinths and connected to the various buildings rainwater system placed on precast plinths.	No	17.00	
46	Allowance for drinking fountains		Item	54,000.00
47	Supply and install complete 5m high steel tank stand for 10 000 Litres prefabricated tank (elsewhere) including 10 000 Litre Jojo Tanks	No	3	
Carried Forward			R	
Section No. 16 Bill No. 1 EXTERNAL WORKS Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

CONCRETE STORMWATER CHANNELS

- 48 V-shaped channel 1200mm wide x 100mm thick with rounded salient edges and finished on exposed surfaces with (2:1) cement mortar, laid to falls in panels not exceeding 2500mm long, with 12mm bitumen impregnated softboard movement joints inbetween concrete panels, including raking out joint for a depth of 10mm and filled with bituminous compound, including all necessary excavations, compaction of in-situ earth material to 93% Mod. AASHTO maximum density, weedkiller, ant poisoning, formwork to edges and mesh ref. 193 reinforcement cast into concrete

m

464

Carried to Final Summary

R

Section No. 16

Bill No. 1

EXTERNAL WORKS

Independent Development Trust**Tshembhani Primary School Provisional Bill of Quantities**

Item No		Quantity	Rate	Amount
	<u>PROVISIONAL SUMS, BUDGETARY ALLOWANCES</u>			
	<u>SPECIALIST INSTALLATIONS</u>			
	<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>			
	<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>			
	<hr/>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>General</u>			
	<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>			
	<u>Prime cost amounts and provisional sums exclude value added tax.</u>			
	<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>			
	<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>			
	<u>Profit</u>			
	Carried Forward		R	
	Section No. 17 Bill No. 1 PROVISIONAL SUMS Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

Brought Forward

R

Where profit stated, the contractor may allow for profit if required

Attendance upon nominated/selected subcontractors

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

Taking delivery

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.

Works executed under a separate/direct contract

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.

Co-ordination

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

Number of nominated/selected subcontractors

Carried Forward

R

Section No. 17

Bill No. 1

PROVISIONAL SUMS

Independent Development Trust

Tshembhani Primary School Provisional Bill of Quantities

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><u>SPECIALIST INSTALLATIONS</u></p> <p><u>Jungle Gym</u></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><u>Grade R Furniture</u></p>		
4	Provide the sum of R 35 000,00 for purchase of Grade R furniture and fit out	Item 35,000.00
5	Allow for Profit on above item	%
6	Allow for Attendance on above item	%
<p><u>Primary Classroom Furniture</u></p>		
7	Provide the sum of R 265 860,00 for Classroom Furniture To be Provided by Nominated Subcontractor- Primary Table including chair combos, Teachers Desks and chairs, Steel Filling Cabinet- lockable etc	Item 265,860.00
8	Allow for Profit on above item	%
9	Allow for Attendance on above item	%
Carried Forward		R
<p>Section No. 17 Bill No. 1 PROVISIONAL SUMS Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities</p>		

Brought Forward			R
<u>New Septic Tank (For New Ablution Block)</u>			
10	Provide the sum of R 150 000.00 for new septic tank	Item	150,000.00
11	Allow for Profit on above item	%	
12	Allow for Attendance on above item	%	
<u>Multi-Purpose Classroom Furniture</u>			
13	Provide the sum of R 75 000.00 for the Multi-purpose Classroom, to be Provided by Nominated Subcontractor - desks and chairs, Shelves, Filling Cabinet- lockable, Boardroom table and chairs, etc	Item	75,000.00
14	Allow for Profit on above item	%	
15	Allow for Attendance on above item	%	
<u>Admin Block Furniture</u>			
16	Provide the sum of R 120 000,00 for Admin Furniture To be Provided by Nominated Subcontractor - Primary Table including chair combos, Teachers Desks and chairs, Steel Filling Cabinet- lockable etc		SUM
17	Allow for Profit on above item	%	
18	Allow for Attendance on above item	%	
<u>Borehole</u>			
19	Provide the sum of R 350 000,00 for supply and install of a borehole and upgrade existing	Item	350,000.00
20	Allow for Profit on above item	%	
21	Allow for Attendance on above item	%	
Carried Forward			R
Section No. 17 Bill No. 1 PROVISIONAL SUMS Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities			

	Brought Forward		R	
	<u>Signage and Telecommunication</u>			
22	Provide the provisional sum of R 100 000,00 for Signage and Telecommunications		SUM	
23	Allow for Profit on above item	%		
24	Allow for Attendance on above item	%		
	<u>Temporary Classroom</u>			
25	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	
26	Allow for Attendance on above item	%		
27	Allow for Profit on above item	%		
	<u>Electrical - Works</u>			
28	Provide the sum of R 2 881 598.82 for New Electrical Installation by a Selected sub- contractor.		SUM	
29	Allow for Profit on above item	%		
30	Allow for Attendance on above item	%		
	<u>Partitioning</u>			
31	Provide the sum of R 75 000.00 for the removal of partitioning in the Classroom Blocks		SUM	
32	Allow for Profit on above item	%		
33	Allow for Attendance on above item	%		
	Carried to Final Summary		R	
	Section No. 17			
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	Tshembhani Primary School Provisional Bill of Quantities			

Section No		Page No	Amount	
FINAL SUMMARY				
1	Preliminaries and Generals	59		
2	Demolition	60		
3	Refurbishment of Enviro loo toilets	68		
4	Refurbishment of Guard House	74		
5	Refurbishment of School Hall	79		
6	Refurbishment of Grade R Classroom	83		
7	Refurbishment of 1 x 5 Classroom Block (5 Classrooms)	90		
8	Refurbish 3 x 4 Classrooms (12 Classrooms)	100		
9	1 x 2 Enviro Loo Toilets (2 Toilets)	114		
10	2 x 4 Enviro Loo Toilets (8 Toilets)	130		
11	Waterborne Toilets (6 Toilet Seats)	175		
12	Grade R Classroom (1 Classroom)	191		
13	1 x 4 Classroom Block	208		
14	Multi-purpose Classroom	225		
15	Admin Building	251		
16	External Works	261		
17	Provisional Sums	266		
	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	%		
	Sub Total		R	
	Escalation	%		
	Carried Forward		R	
Independent Development Trust Tshembhani Primary School Provisional Bill of Quantities				

