

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

Brought Forward

R

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.

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.

Any item not applicable to this contract is marked N/A.

**PART A - PRINCIPAL BUILDING AGREEMENT**

**DEFINITIONS**

1 CLAUSE 1.0 : DEFINITIONS AND INTERPRETATION

Item

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

**OBJECTIVE AND PREPARATION**

2 CLAUSE 2.0 : OFFER, ACCEPTANCE AND PERFORMANCE OBLIGATIONS

Item

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

**PREPARATION**

3 CLAUSE 3.0 : DOCUMENTS

Item

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

4 CLAUSE 4.0 : DESIGN RESPONSIBILITY

Item

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

5 CLAUSE 5.0 : EMPLOYER'S AGENTS

Item

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

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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 :-

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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.

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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.

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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.

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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:-

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

**5.1 Act as the clients (employers) agent in terms of the Occupational Health and Safety Act, Act 85 of 1993 Construction Regulations.**

**5.2 Prepare and update the health and safety specification for the works.**

**5.3 Agree with the contractor the health and safety plan for the works.**

**5.4 Carry out regular audits to ensure adherence to the safety plan, and compliance with the Act and Regulations.**

**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.**

**5.6 Issue contract instructions to the contractor regarding:-**

**5.6.1 Compliance with Acts of Parliament, regulations and bylaws**

**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.**

6 CLAUSE 6.0 : SITE REPRESENTATIVE

Item

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

**Clause 6.0 is amended by the addition of the following :**

**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.**

7 CLAUSE 7.0 : COMPLIANCE WITH REGULATIONS

Item

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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

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 OHS Act and its regulations, whereby all responsibility for health and safety matters relating to the services performed under this agreement shall be the obligation of the Service Provider. The Contractor shall comply with all the laws and regulations which may be relevant to the services performed under this agreement, it being recorded that the presence of the Contractor's employees, representatives, authorised sub-contractors, machinery, plant equipment and vehicles at the employer's premises shall always be subject to the provisions of the OHS Act and of all other relevant legislation, codes of practice, directives, health and safety rules and security measures and will adhere to and obey all directives and instructions given by the employer in this regard".

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

**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**

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminary And General  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminary And General  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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

Item

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminary And General  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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

9 CLAUSE 9.0 : INDEMNITIES

Item

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

10 CLAUSE 10.0 : WORKS INSURANCES

Item

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

Clause 10.1 is amended by the addition of the following:

The contractor shall effect, as a minimum, the following insurances:

a) Insurance to comply with the provisions of the Compensation for Occupational Injuries and Diseases Act 1993.

b) Employers Liability Insurance for no less than R5 million

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.

Furthermore the contractor shall effect and maintain for the duration of the contract Motor Vehicle Liability Insurance company:

d) Insurance in accordance with the Multilateral Motor Vehicle Accident fund No 93 of 1989 as amended.

e) Balance of Third Party Motor Risks including passenger Liability.

11 CLAUSE 11.0 : LIABILITY INSURANCES

Item

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

12 CLAUSE 12.0 : EFFECTING INSURANCES

Item

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

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

Where called upon to do so, the party/ies responsible for effecting the various insurances, shall complete the relevant "Declaration of Insurance"

13 CLAUSE 13.0 : NO CLAUSE

Item

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

14 CLAUSE 14.0 : SECURITY

Item

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

Clause 14.0 is amended by the addition of the following clause :

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.

**EXECUTION**

15 CLAUSE 15.0 : PREPARATION FOR AND EXECUTION OF THE WORKS

Item

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

16 CLAUSE 16.0 : ACCESS TO THE WORKS

Item

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

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.

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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.

No claims for extras arising from the contractor having failed to comply with this clause will be entertained.

17 CLAUSE 17.0 : CONTRACT INSTRUCTIONS

Item

Clause 17.0 is amended by adding Clause 17.6

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.

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.

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.

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

18 CLAUSE 18.0 : SETTING OUT OF THE WORKS

Item

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

19 CLAUSE 19.0 : ASSIGNMENT

Item

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

20 CLAUSE 20.0 : NOMINATED SUBCONTRACTORS

Item

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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

21 CLAUSE 21.0 : SELECTED SUBCONTRACTORS Item

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

22 CLAUSE 22.0 : EMPLOYER'S DIRECT CONTRACTORS Item

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

Clause 22.0 is amended by the addition of the following clause :

22.6 Refer to Clause C4 Direct Contracts for further details.

23 CLAUSE 23.0 : CONTRACTOR'S DOMESTIC SUBCONTRACTORS Item

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

**COMPLETION**

24 CLAUSE 24.0 : PRACTICAL COMPLETION Item

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

25 CLAUSE 25.0 : WORKS COMPLETION Item

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

26 CLAUSE 26.0 : FINAL COMPLETION Item

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

27 CLAUSE 27.0 : LATENT DEFECTS LIABILITY PERIOD Item

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

28 CLAUSE 28.0 : SECTIONAL COMPLETION Item

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

29 CLAUSE 29.0 : REVISION OF DATE FOR PRACTICAL COMPLETION Item

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminary And General  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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

30 CLAUSE 30.0 : PENALTY FOR NON-COMPLETION

Item

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

**PAYMENT**

31 CLAUSE 31.0 : INTERIM PAYMENT TO THE CONTRACTOR

Item

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

**Clause 31.0 is amended as follows :**

**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".**

**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.**

**Notwithstanding this or any other Clause, materials and goods stored off Site, shall not be included in the amount authorised for payment.**

**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 ".**

32 CLAUSE 32.0 : ADJUSTMENT TO THE CONTRACT VALUE

Item

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

**Clause 32.0 is amended by the addition of the following clauses:**

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

**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.**

**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.**

**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.**

33 CLAUSE 33.0 : RECOVERY OF EXPENSE AND LOSS

Item

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

**Clause 33.0 is amended by the following :**

**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".**

34 CLAUSE 34.0 : FINAL ACCOUNT AND FINAL PAYMENT

Item

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

**Clause 34.0 is amended by the following:**

**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)".**

35 CLAUSE 35.0 : PAYMENT TO OTHER PARTIES

Item

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

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

**TERMINATION**

36 CLAUSE 36.0 : CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT Item

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

**Clause 36.0 is amended by the following:**

**The addition of the following :**

**36.1.3 Is placed under provisional or final liquidation or judicial management**

37 CLAUSE 37.0 : CANCELLATION BY EMPLOYER - LOSS AND DAMAGE Item

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

38 CLAUSE 38.0 : CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT Item

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

39 CLAUSE 39.0 : CANCELLATION - CESSATION OF THE WORKS Item

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

**DISPUTE**

40 CLAUSE 40.0 : DISPUTE SETTLEMENT Item

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

**SUBSTITUTE PROVISIONS**

41 CLAUSE 41.0 : STATE CLAUSES Item

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

**CONTRACT VARIABLES**

**THE SCHEDULE**

42 CLAUSE 42.0 : PRE-TENDER INFORMATION Item

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminary And General  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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

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

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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 : 015 295-9485

Fax : 015 295-9485

Email : nelson@a3architects.co.za

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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

**Agents Service : Quantity Surveying**

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

**Telephone : 015 295-9480**

**Fax : 015 295-9485**

**Email : manjith@durapi.co.za**

**42.1.6 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**

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

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

Telephone : 076 066 4740

Email : www.mhks.co.za

**CLAUSE 42.2 : CONTRACT DETAILS**

**42.2.1 Works Description :**

**New School: Construct (No 3) 1 x 4 Classroom Blocks, (No3) 1 x 8 new Ablution Blocks, (No 1) Admin Block, (No1) Nutrition Centre, (No1) Guard House, (No1) Computer lab, (No1) Science Lab, (No1) Laboratory, (No1) Library. Bulk Electrical installation. Provide new stormwater drainage channels, new paved walkways, new paved access roads and parking area, 2100mm high Palisade fencing and rainwater harvesting tanks.**

**42.2.2 Site description :**

**Nkomo Mabhoko Secondary School, Mopani 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**

**(4) Dispute Resolution by litigation**

**No**

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

**Electrical installation - 12 calendar months**

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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

42.3.3 Public Liability insurance to be effected by  
Contractor  
For the Sum of  
Ten Million Rand (R 10,000,000.00)  
With a deductible of  
Zero comma one percent (0,1%)

42.3.4 Support Insurance to be effected by the  
Employer

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminary And General  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

For the Sum of  
Not Applicable  
With a deductible of  
Not Applicable

**CLAUSE 42.4 : DOCUMENTS**

42.4.1 Waiver of the Contractor's lien or right of continuing possession is required  
Yes

42.4.2 Construction document copies to be supplied to the Contractor Free of charge  
No of Three

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)

42.4.4 On acceptance of the tender, the Bills of Quantities / Lump Sum Document is to be submitted within working days  
With the tender

42.4.5 JBCC Engineering General Conditions of contract are to be included in the Contract Documents  
Not Applicable

42.4.6 The Contract Value is to be adjusted using CPAP indices  
No

Where CPAP is to be used \_\_\_\_\_ Base  
Month : Not Applicable

Alternative Indices (if applicable) \_\_\_\_\_ Not  
Applicable

42.4.7 Details of changes made to the provisions of JBCC standard documentation  
[An Addendum referenced to this clause is to be attached should the space provided be insufficient]

**CLAUSE 42.0 : POST-TENDER INFORMATION**

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminary And General  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

**42.5 Contract Details**

**42.5.1 Contractor**

**Postal address**

**Code**

**Telephone**

**Fax**

**E-mail**

**Tax/VAT registration No :**

**Physical address :**

**42.5.2 The accepted contract sum (inclusive of tax)**

**Amount**

**In words**

**42.5.3 The latest day of the month for the issue of an interim payment certificate**  
**Day of month**

**42.5.4 The Preliminaries amounts shall be paid in terms of**  
**Alternative A or B**

**42.5.5 The Preliminaries amounts shall be paid in terms of**  
**Alternative A or B**

**42.5.6 The payment guarantee to be effected by the Employer for the Sum of**  
**Amount**

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

**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**

**42.7.1 The default dispute resolution process is adjudication**

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

**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**

---

**42.7.4 Where Mediation is elected in terms of 40.6**

**(1) Mediator**

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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  
\_\_\_\_\_

Name of signatory  
\_\_\_\_\_

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminary And General  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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

\_\_\_\_\_  
Capacity of signatory

\_\_\_\_\_  
as Witness

**PART B - PRELIMINARIES**

43 CLAUSE 1.0 : DEFINITIONS AND INTERPRETATION

Item

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

**CLAUSE 2.0 : DOCUMENTS**

44 2.1 Checking of documents

Item

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

45 2.2 Provisional Bills of Quantities

Item

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

These provisional bills of quantities shall NOT be used for ordering purposes.

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.

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.

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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.....

**CLAUSE 3.0 : THE SITE**

50 3.1 Defined Works Area Item

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

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminary And General  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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.

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

51 3.2 Geotechnical Investigation

Item

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

52 3.3 Inspection of the Site

Item

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

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.

53 3.4 Existing premises occupied

Item

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

Existing premises will be occupied.

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.

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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.

54 3.5 Previous Work - Dimensional Accuracy Item

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

55 3.6 Previous Work - Defects Item

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

56 3.7 Services - Known Item

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

Provision of temporary services is required

57 3.8 Services - Unknown Item

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

58 3.9 Protection of Trees Item

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

Protection of existing trees and shrubs is required.

Specific requirements : The existing landscaped areas and trees in the school premises are to be protected.

59 3.10 Articles of Value Item

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

60 3.11 Inspection of Adjoining Properties Item

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

**CLAUSE 4.0 : MANAGEMENT OF CONTRACT**

61 4.1 Management of the Works Item

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminary And General  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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

62 4.2 Programme for the Works

Item

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

63 4.3 Progress Meetings

Item

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

64 4.4 Technical Meetings

Item

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

65 4.5 Labour and Plant Records

Item

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

**CLAUSE 5.0 : SAMPLES AND SHOP DRAWINGS**

66 5.1 Samples of Materials

Item

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

67 5.2 Workmanship samples

Item

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

68 5.3 Shop drawings

Item

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

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.

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:

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

(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.

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

(vi) The principal agents approval of shop drawings is limited to checking conformity with specification and shall not relieve the contractor, subcontractor or supplier of his responsibility for design where called for, erection or installation fit, nor does it vary his contractual or delictual obligations and liabilities.

(vii) Should the contractor, subcontractor or supplier be of the opinion that corrections to shop drawings made by the principal agent constitute a change to the scope of work, then he shall immediately advise the principal agent in writing of this, together with the cost and/or programme implications thereof, in order to obtain the principal agents directive.

**CLAUSE 6.0 : TEMPORARY WORKS AND PLANT**

69 6.1 Deposits and Fees Item

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

70 6.2 Enclosure of the Works Item

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

71 6.3 Advertising Item

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

72 6.4 Plant, Equipment, Sheds and Offices Item

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

73 6.5 Main Noticeboard Item

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

74 6.6 Sub-Contractor's Noticeboard Item

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

**CLAUSE 7.0 : TEMPORARY SERVICES**

75 7.1 Location Item

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminary And General  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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

76 7.2 Water

Item

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

The Employer shall provide for the works in accordance with Option C.

77 7.3 Electricity

Item

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

The Employer shall provide for the works in accordance with Option C.

78 7.4 Telecommunication Facilities

Item

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

The Contractor shall provide telecommunication facilities in accordance with Option B.

79 7.5 Ablution Facilities

Item

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

The Contractor shall provide toilets in accordance with Option A.

**CLAUSE 8.0 : PRIME COST AMOUNTS**

80 8.1 Responsibility for Prime Cost Amounts

Item

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

**CLAUSE 9.0 : ATTENDANCE ON N/S SUBCONTRACTORS**

81 9.1 General Attendance

Item

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

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminary And General  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

**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.**

82 9.2 Special Attendance Item

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

83 9.3 Commissioning - Fuel, Water and Power Item

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

**CLAUSE 10.0 : FINANCIAL ASPECTS**

84 10.1 Statutory taxes duties and levies Item

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

85 10.2 Payment of Preliminaries Item

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

86 10.3 Adjustment of Preliminaries Item

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

87 10.4 Payment Certificate Cash Flow Item

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

88 10.5 Contractor Information Supply Item

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

**CLAUSE 11.0 : GENERAL**

89 11.1 Protection of the works Item

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

90 11.2 Protection / isolation of existing / sectionally occupied works Item

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminary And General  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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

91 11.3 Security of the works

Item

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

92 11.4 Notice before covering work

Item

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

93 11.5 Disturbance

Item

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

94 11.6 Environmental disturbance

Item

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

95 11.7 Works cleaning and clearing

Item

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

96 11.8 Vermin

Item

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

97 11.9 Overhand work

Item

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

98 11.10 Instruction Manuals and Guarantees

Item

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

On achievement of practical completion the contractor is to hand over manual etc related to the works as listed below :

(1) Operating and Instruction manuals

All services subcontracts appointed through this Agreement including separate submissions for each Domestic subcontractor appointed by the Service subcontractors.

(2) Product guarantees and Manufacturers' instructions

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

**All proprietary specified products / equipment that carries a Manufacturers' guarantee and needs to be maintained in a prescribed manner**

99 11.11 As built Information Item

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

100 11.12 Tenant Installations Item

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

**CLAUSE 12.0 : SCHEDULE OF VARIABLES**

**12.1 PRE-TENDER INFORMATION**

101 12.1.1 Provisional bills of quantities Item

**The quantities are provisional**

**Yes**

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

102 12.1.2 Availability of construction documentation Item

**Construction documentation is complete**

**No**

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

103 12.1.3 Interests of Agents Item

**Nil**

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

104 12.1.4 Defined Works area Item

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

105 12.1.5 Geotechnical Investigation Item

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

106 12.1.6 Existing premises occupied Item

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminary And General  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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

107 12.1.7 Previous Work - Dimensional Accuracy Item

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

108 12.1.8 Previous Work - Defects Item

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

109 12.1.9 Services - Known Item

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

110 12.1.10 Protection of Trees Item

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

111 12.1.11 Inspection of Adjoining properties Item

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

112 12.1.12 Enclosure of the Works Item

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

113 12.1.13 Offices Item

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

114 12.1.14 Main Noticeboard Item

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

115 12.1.15 Subcontractors Noticeboard Item

A noticeboard is required  
No

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

116 12.1.16 Water Item

Alternative Selected  
Option C (by employer - metered)

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminary And General  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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

117 12.1.17 Electricity

Item

Alternative Selected  
Option C (by employer - metered)

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

118 12.1.18 Telecommunication Facilities

Item

Alternative Selected  
Option B (by employer - metered)

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

119 12.1.19 Ablution Facilities

Item

Alternative Selected  
Option A (by contractor)

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

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.

120 12.1.20 Protection of existing / sectionally occupied works

Item

Protection is required  
Yes

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

121 12.1.21 Special Attendance

Item

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

122 12.1.22 Protection of the Works

Item

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

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminary And General  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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 :

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)

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

The contractor shall be responsible for any damage which may occur and shall make good at his own expense

123 12.1.23 Disturbance

Item

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

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

124 12.1.24 Environmental Disturbance

Item

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

**12.2 POST-TENDER INFORMATION**

125 12.2.1 Payment of preliminaries

Item

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

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:

Option A (prorated)

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

Yes/No

Option B (calculated)

Yes/No

126 12.2.2 Adjustment of preliminaries

Item

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

The amount or items of preliminaries shall be adjusted to take account of the theoretical financial effect which changes in time and/or value have on preliminaries. Such an adjustment shall be based on the particulars provided by the contractor for this purpose in terms of Option A or B and shall preclude any further adjustment of preliminaries.

Option A (three categories)

Yes/No

Option B (detailed breakdown)

Yes/No

127 12.2.3 Additional agreed Preliminaries items

Item

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

PART C - ADDITIONAL PRELIMINARIES

The following clauses are additional to or, augment the clauses contained in Parts A and B

1.0 THE SITE

128 CLAUSE 1.1 : UNAUTHORISED PERSONS ON SITE

Item

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

The contractor shall at all times strictly exclude all unauthorized persons from the works.

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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.

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.

129 CLAUSE 1.2 : ACCESS TO SITE

Item

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

130 CLAUSE 1.3 : MAINTENANCE OF ROADS AND SERVICES

Item

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

The contractor shall keep the approaches to the site clear of mud, other debris and the like caused by the contractor or any subcontractors.

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.

**2.0 FINANCIAL ASPECTS**

131 CLAUSE 2.1 : PRICING OF PRELIMINARIES

Item

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

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.

In pricing the preliminaries, tenderers are required to price the relevant items individually, as a single lump sum preliminaries amount will not be accepted.

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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.

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminary And General  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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.

133 CLAUSE 2.3 : NATURE OF PROJECT IN RELATION TO PRICING

Item

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

Tenderers are advised that the nature of this contract is such that the detail design will evolve in parallel with construction.

134 CLAUSE 2.4 : COSTS OF CLAIMS

Item

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

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.

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.

**3.0 INSURANCES**

135 CLAUSE 3.1 : SATISFACTION OF CONTRACTOR AS TO SCOPE OF INSURANCES

Item

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

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.

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

The employer warrants that the insurances effected by him shall remain in force for the duration of the contract including the period of maintenance.

Any clarification of the scope of cover provided by the policies arranged by the employer should be obtained from the employers insurance brokers.

The contractor warrants that he shall give all notices and shall observe all the terms and conditions and requirements of all insurances applicable to this contract.

Where the contractor is responsible for the appointment of sub-contractors, then the contractor shall:

i) ensure that potential and appointed subcontractors are aware of the whole content of Clauses A10.0, A11.0 and A12.0

ii) ensure the compliance of subcontractor with these Clauses where applicable.

136

CLAUSE 3.2 : CLAIMS UNDER INSURANCE  
ARRANGED BY THE EMPLOYER

Item

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

In the event of any occurrence which is likely to give rise to a claim under the insurances arranged by the employer, the contractor / subcontractor shall :-

i) In addition to any statutory requirement or other requirements contained in the agreement, immediately notify the employers insurance brokers by telephone or telefax, giving the circumstances, nature and an estimate of the loss or damage or liability;

ii) Complete a claims advice form as per Annexure L, in conjunction with both the principal agent and the employer and return it to the insurance brokers without delay;

iii) Assist as required, in negotiations of the settlement of claims with the insurers through the employers insurance brokers.

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

Independent Development Trust

Nkomo Maboko Secondary School Provisional Bill of Quantities

Brought Forward

R

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.

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminary And General  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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.

**5.0 HANDOVER, GUARANTEES AND MAINTENANCE INSTRUCTIONS / MANUALS**

138 CLAUSE 5.1 : AS BUILT DRAWINGS

Item

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

139 CLAUSE 5.2 : GUARANTEES AND MAINTENANCE INSTRUCTIONS / MANUALS

Item

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

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.

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.

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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.

140 CLAUSE 5.3 : SECURITY AT COMPLETION

Item

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

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.

**6.0 GENERAL**

141 CLAUSE 6.1 : CONTRACTOR TO BE RESPONSIBLE

Item

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

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.

142 CLAUSE 6.2 : NOTICE BOARDS, MEDIA RELEASES, ADVERTISING, ETC.

Item

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

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.

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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.

143 CLAUSE 6.3 : METHOD STATEMENT

Item

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

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.

144 CLAUSE 6.4 : OVERLOADING

Item

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

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.

145 CLAUSE 6.5 : STRUCTURAL SAFETY

Item

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

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminary And General  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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.

146 CLAUSE 6.6 : CONDEMNED WORK

Item

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

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.

The contractor shall also bear the expense of making good any other work damaged or destroyed by such removal or replacement.

147 CLAUSE 6.7 : PHOTOGRAPHIC RECORD

Item

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

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.

148 CLAUSE 6.8 : MODE OF PROCEDURE

Item

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

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.

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

Independent Development Trust

Nkomo Maboko Secondary School Provisional Bill of Quantities

Brought Forward

R

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.

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminary And General  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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

R

Section No. 1  
Bill No. 1  
Preliminary And General  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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.

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.

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.

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.

152 8.0 INFRINGEMENT WARRANTY

Item

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

153 Community lesion officer (CLO)

No

36.00

The CLO will be responsible will include EPWP reporting on a monthly basis

The contractor must issue copies of the CLO valid payslip to the Principal Agent as well as IDT

**THE CONTRACTOR HEREBY:**

(i) warrants to the Employer that he has the right to perform the contract works;

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

Carried Forward

R

Section No. 1

Bill No. 1

Preliminary And General

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

**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

%

**Carried Forward to Summary of Section No. 1**

R

Section No. 1  
Bill No. 1  
Preliminary And General  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION No 2 : New Buildings</u></b></p> <p><b><u>Section 2.1</u></b>  <b><u>3 × 4 BLOCK ( 4 classroom Block )</u></b></p> <p><b><u>BILL No1 : FOUNDATIONS (PROVISIONAL)</u></b></p> <p><b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u></b></p> <p><b><u>Foundation brickwork and concrete walls have been measured to top of unfinished floor level</u></b></p> <p><b><u>EARTHWORKS</u></b></p> <p><b><u>NOTE : All excavations are measured as being in "earth" and/or filling compacted to 95% modified AASHTO density. Descriptions of excavations shall be deemed to include for setting aside surplus excavated material in spoil heaps for use as filling, or for depositing within 150m of the perimeter of the excavations and spreading and roughly levelling as directed, as well as for increase in bulk and multiple handling of excavated material caused by the Contractor's method of operation. Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site and for bulking</u></b></p> <p><b><u>Working space for formwork to sides of all concrete, except columns, shall be measured only where the concrete face is less than 750mm from the face of the measured excavations. Working space for formwork to sides of columns shall be measured for the width of the column face only where both the top of the column base is more than 1,5m below the commencing level of the excavations and the column face is less than 500mm from the face of the measured excavations</u></b></p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 1  Bill No. 2  3 x 4 BLOCK CLASSROOMS  Independent Development Trust  Nkomo Maboko Secondary School Provisional Bill of Quantities</p>			

Brought Forward

R

**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**

**Excavations**

**Excavate in earth not exceeding 2m deep below natural, elevated or reduced ground level for**

1	Reducing levels	m3	195.00
2	Trenches	m3	360.00
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	282.00
4	Extra over excavations in earth for trenches and holes for excavations in soft rock	m3	45.00
5	Extra over excavations in earth for trenches and holes for excavations in hard rock	m3	27.00
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	990.00
7	Allow for keeping excavations free of all water other than subterranean water		Item

**Filling, etc.**

8	Backfilling from the excavations to trenches and holes compacted to 90% modified AASHTO density	m3	282.00
9	Imported earth filling supplied by the Contractor and brought onto site, under solid floors, steps, pavings, etc. compacted to 93% modified AASHTO density	m3	630.00
10	Prepare ground surface by scarifying top 150mm layer of ground and re-compact to 90% modified AASHTO density	m2	990.00

Carried Forward

R

Section No. 1

Bill No. 2

3 x 4 BLOCK CLASSROOMS

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

<b>Brought Forward</b>			R
11	50mm Thick dry, clean, washed riversand layer evenly spread over filling (elsewhere), levelled, watered and rammed to receive waterproof membrane (elsewhere) under solid floors	m2	990.00
12	50mm Thick layer of 19mm crushed stone evenly spread over filling (elsewhere), levelled and rammed in ducts	m2	990.00
<b><u>Tests</u></b>			
13	Tests to determine the degree of compaction, etc. of ground or filling	No	30.00
<b><u>Protection against termites</u></b>			
14	Poisoning surface of ground in bottoms of trenches, bases, etc.	m2	342.00
15	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	990.00
<b><u>CONCRETE</u></b>			
<b><u>Concrete test cubes</u></b>			
16	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	30.00
<b><u>REINFORCED CONCRETE</u></b>			
<b><u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25MPa at 28 days</u></b>			
17	In footings to walls cast against excavated surfaces, stepped and levelled	m3	84.00
18	In bases to steel columns cast against excavated surfaces	m3	15.00
<b><u>FORMWORK</u></b>			
<b>Carried Forward</b>			R
Section No. 1 Bill No. 2 3 x 4 BLOCK CLASSROOMS <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

<b>Brought Forward</b>			R
<b><u>Movement Joints</u></b>			
19	Movement joint not exceeding 300mm wide formed of 20mm bitumen impregnated softboard placed vertically in position between concrete bases	m	225.00
<b><u>Mild steel reinforcement to structural concrete work</u></b>			
20	All diameter bars	t	1.350
<b><u>High tensile steel reinforcement to structural concrete work</u></b>			
21	All diameter bars	t	9.450
<b><u>MASONRY</u></b>			
<b><u>Brickwork</u></b>			
<b><u>Brickwork in extra hard burnt clay bricks in (5:1) cement mortar with all joints grouted in solid with liquid cement mortar</u></b>			
22	Half brick wall	m2	12.00
23	Half brick wall in lining to concrete including wire ties	m2	18.00
24	One brick wall	m2	663.00
<b><u>Brick reinforcement</u></b>			
25	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	3,912.00
<b><u>Movement joints</u></b>			
26	Movement joint formed of 20mm softboard built in vertically between brickwork	m2	27.00
27	Movement joint not exceeding 300mm wide formed of 20mm softboard built in vertically between brickwork	m	48.00
28	Movement joint cover strip formed of 80 x 3mm mild steel flat section holed along one side at 600mm centres for and bolted to brickwork with and including M6 x 70mm expansion bolts	m	30.00
<b>Carried Forward</b>			R
Section No. 1			
Bill No. 2			
3 x 4 BLOCK CLASSROOMS			
<b>Independent Development Trust</b>			
<b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

Brought Forward

R

**FACED BRICKWORK**

**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**

29 Extra over ordinary brickwork for facing and pointing in stretcher bond m2 639.00

30 Extra over ordinary brickwork in piers for facing and pointing in stretcher bond m2 6.00

**PAINTWORK**

**Paint on metal**

**Prepare and apply one coat zinc phosphate alkyd resin primer, one coat universal undercoat and two full coats high gloss enamel paint**

31 On bars, rods, etc. not exceeding 300mm girth m 30.00

**BILL No2 : CONCRETE, FORMWORK AND REINFORCEMENT**

**NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill**

**CONCRETE**

**Concrete test cubes**

32 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 30.00

**REINFORCED CONCRETE**

**Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25MPa at 28 days**

33 In ramps m3 12.00

Carried Forward

R

Section No. 1

Bill No. 2

3 x 4 BLOCK CLASSROOMS

Independent Development Trust

Nkomo Maboko Secondary School Provisional Bill of Quantities

<b>Brought Forward</b>			R
34	In surface beds	m3	129.00
<b><u>Sundries</u></b>			
35	Finish raking top surface of concrete slabs, etc. to a smooth and even wood floated surface including additional dry sand/cement mixture added as necessary whilst the concrete is still wet	m2	1,287.00
36	Finish edge of concrete slabs, etc. not exceeding 300mm high to a smooth and even wood floated surface including additional dry sand/cement mixture added as necessary whilst the concrete is still wet including rounded corner along top edge	m	348.00
37	Form sinking size 275 x average 50mm deep in top of surface bed	m	72.00
<b><u>FORMWORK</u></b>			
<b><u>Rough Formwork</u></b>			
38	Edges, risers, ends and reveals not exceeding 300mm high	m2	57.00
<b><u>Movement joints</u></b>			
39	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	54.00
40	Movement joint not exceeding 300mm high formed of 20mm bitumen impregnated softboard placed vertically in position between concrete surface beds	m	63.00
41	Aluminium expansion joint coverstrip suitable for under-screed fixing in tiled floors with two extruded aluminium profiles with 35mm total surface width and 40mm depth fitted to 48mm wide perforated side plate mounting brackets plugged on mortar levelling strips to concrete and with a twice grooved synthetic rubber replaceable insert completely fitted and fixed over expansion joint in tiled floors	m	30.00
<b><u>REINFORCEMENT</u></b>			
<b>Carried Forward</b>			R
Section No. 1 Bill No. 2 3 x 4 BLOCK CLASSROOMS <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

Brought Forward			R
<b><u>Fabric reinforcement</u></b>			
42	Type 245 fabric reinforcement in concrete surface beds, etc.	m2	990.00
<b><u>BILL No3 : MASONRY</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
<b><u>BRICKWORK IN BURNT CLAY BRICKS IN (5:1) CEMENT MORTAR</u></b>			
43	Half brick wall	m2	33.00
44	Half brick wall in beamfilling	m2	120.00
45	One brick wall	m2	660.00
<b><u>REINFORCED BRICKWORK IN EXTRA HARD BURNT CLAY BRICKS IN (3:1) CEMENT MORTAR IN LINTELS (REINFORCEMENT AND TURNING PIECES ELSEWHERE)</u></b>			
46	One brick wall	m2	120.00
<b><u>BRICK REINFORCEMENT</u></b>			
47	6,3mm Diameter mild steel bar reinforcement cut to lengths and built into brick lintels	t	4.500
48	Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	453.00
49	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	3,000.00
<b><u>TEMPORARY TURNING PIECES, ETC.</u></b>			
50	To flat brick lintels not exceeding 300mm wide	m	342.00
<b><u>SUNDRIES</u></b>			
51	Fill top of pressed steel door frame, suitable for half brick wall, with cement mortar and trowel smooth	m	15.00
Carried Forward			R
Section No. 1 Bill No. 2 3 x 4 BLOCK CLASSROOMS Independent Development Trust Nkomo Maboko Secondary School Provisional Bill of Quantities			

<b>Brought Forward</b>			R
52	38 x 1,6mm Galvanised hoop iron iron roof tie with one end built six courses deep into top of brickwork and other end wrapped around and nailed to trusses	No	288.00
<b><u>AIR BRICKS</u></b>			
53	Continuous single course of 222 x 155mm terra-cotta vermin proof air bricks with gauze backing and building into brickwork in cement mortar	m	18.00
54	222 x 155mm Terra-cotta vermin proof air brick with gauze backing and building into opening in brickwork in cement mortar	No	15.00
55	Set of two 222 x 155mm terra-cotta vermin proof air bricks above each other with gauze backing and building into opening in brickwork in cement mortar	No	15.00
<b><u>MOVEMENT JOINTS</u></b>			
56	Movement joint formed of 20mm softboard built in vertically between brickwork	m2	78.00
57	Movement joint not exceeding 300mm wide formed of 20mm softboard built in vertically between brickwork	m	27.00
58	Movement joint cover strip formed of 80 x 3mm mild steel flat section holed along one side at 600mm centres for and bolted to brickwork with and including M6 x 70mm expansion bolts	m	27.00
<b><u>FACED BRICKWORK</u></b>			
<b><u>Internal facings in approved face bricks (FBS) with a PC Amount of R4,500.00 per thousand bricks delivered to site (excluding VAT) pointed with square recessed horizontal and vertical joints</u></b>			
<b><u>Extra over brickwork for face brickwork</u></b>			
59	Extra over ordinary brickwork for facing and pointing in stretcher bond	m2	450.00
60	Cut face brick-on-end soldier course internal window cill in cement mortar, 90mm wide x 95mm high, set flat and pointing on top and front edge including fair and fitted ends	m	177.00
<b>Carried Forward</b>			R
Section No. 1			
Bill No. 2			
3 x 4 BLOCK CLASSROOMS			
<b>Independent Development Trust</b>			
<b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

Brought Forward			R
<b><u>External facings in approved face bricks (FBS) with a PC Amount of R4,500.00 per thousand bricks delivered to site (excluding VAT) pointed with square recessed horizontal and vertical joints</u></b>			
61	Extra over ordinary brickwork for facing and pointing in stretcher bond	m2	1,230.00
62	Extra over ordinary brickwork in beamfilling for facing and pointing in stretcher bond	m2	120.00
63	Fair raking cutting	m	93.00
64	Face brick-on-edge margin course in cement mortar 220mm wide and pointing on top and one side	m	138.00
65	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	177.00
66	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	177.00
<b><u>Sundries</u></b>			
67	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	3.00
<b><u>BILL No4 : WATERPROOFING</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
<b><u>DAMP-PROOFING TO WALLS</u></b>			
68	375 Micron embossed black polyethylene damp-proof course to walls, cills, etc. (measured net)	m2	183.00
Carried Forward			R
Section No. 1 Bill No. 2 3 x 4 BLOCK CLASSROOMS <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

Brought Forward

R

**DAMP-PROOFING UNDER FLOORS, ETC.**

**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**

69	250 Micron green medium density damp-proof membrane laid loose on top of sand bed (elsewhere) under solid floors with pressure sensitive tape jointing	m2	1,140.00
----	--	----	----------

**BILL No5 : ROOF COVERINGS**

**NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill**

**PROFILED METAL SHEETING AND ACCESSORIES**

**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**

**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**

**Where roof coverings are fixed on top of rigid board insulation to purlins etc descriptions of roof coverings are to include therefore**

**0.6mm "Kliplok" roof sheeting in Chromadek finish on 76 x 50mm SA pine purlins at max 1200mm c/c on patent and approved prefabricated roof truss system**

70	0,6mm Roof sheeting with pitch not exceeding 25° fixed to timber purlins (elsewhere)	m2	990.00
----	--	----	--------

**'Klip-Lok 406' Flashings:**

71	Ridge capping 550mm girth, three times bent along girth and notched on site to suit roof profile	m	102.00
----	--	---	--------

72	Hip capping 550mm girth, three times bent along girth and notched on site to suit roof profile.	m	78.00
----	---	---	-------

Carried Forward

R

Section No. 1

Bill No. 2

3 x 4 BLOCK CLASSROOMS

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

<b>Brought Forward</b>			R
73	Headwall flashing 375mm girth fixed to roof structure (elsewhere)	m	18.00
<b><u>ROOF VENTILATORS</u></b>			
<b><u>Galvanized steel louvred ventilators:</u></b>			
74	Triangular shaped steel fixed louvred ventilator size 2100mm wide at base x 450mm high fixed into timber roof trusses.	No	6.00
<b><u>BILL No6 : CARPENTRY AND JOINERY</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
<b><u>ROOFS, ETC.</u></b>			
<b><u>Plate nailed timber roof truss construction</u></b>			
75	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: 36 x 10.76m with 0.5m overhangs at eaves	No	3.00
<b><u>ROOF SUNDRIES</u></b>			
76	3,2mm Galvanised iron roof tie	No	288.00
<b><u>WOOD PRESERVATIVE</u></b>			
77	Two coats wood preservative applied hot on wrought exposed roof timbers	m2	138.00
<b><u>FASCIAS AND BARGEBOARDS</u></b>			
<b><u>Tempered fibre-cement</u></b>			
78	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 halfround cover strips at all joints	m	372.00
<b><u>SKIRTINGS</u></b>			
<b>Carried Forward</b>			R
Section No. 1			
Bill No. 2			
3 x 4 BLOCK CLASSROOMS			
<b>Independent Development Trust</b>			
<b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

Brought Forward

R

**Wrought Meranti**

79 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 450.00

**DOORS**

**NOTE**

**: 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**

**Wrought Meranti**

80 40mm x 0,813 x 2,032m Framed, ledged and braced batten door formed of 40 x 110mm styles and top rail, 20 x 225mm bottom ledge, 20 x 150mm middle ledge and 20 x 110mm diagonal braces, filled in flush one side with 20 x 75mm tongued, grooved and V-jointed both sides vertical boarding fixed in and including grooves in styles and top rail No 15.00

**JOINERY FITTINGS**

**THE FOLLOWING IN PINNING BOARDS**

**Softboard pinning boards**

81 10mm Thick softboard pinning board fixed to plastered wall with an approved adhesive m2 147.00

**Wrought Saligna**

82 19 x 50mm Rebated and angle rounded framing plugged and pelleted m 297.00

83 19 x 50mm Twice rebated and twice angle rounded framing plugged and pelleted m 57.00

**BILL No7 : CEILINGS, PARTITIONS AND ACCESS FLOORING**

Carried Forward

R

Section No. 1

Bill No. 2

3 x 4 BLOCK CLASSROOMS

Independent Development Trust

Nkomo Maboko Secondary 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**

**TIMBER**

**: All softwood to be South African Pine**

**CEILINGS**

**Mineral wool insulation**

84	50mm Insulation closely fitted and laid on top of brandering between roof timbers etc.	m2	840.00
----	--	----	--------

**6mm "Cladit" fibre-cement ceilings boards**

85	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	840.00
----	---	----	--------

86	Extra over fibre-cement ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	15.00
----	---	----	-------

**"Rhino" Gypsum plasterboard cornices**

87	75mm Coved cornices	m	435.00
----	---------------------	---	--------

**BILL No8 : IRONMONGERY**

**NOTE**

**: Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill**

**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**

**THE FOLLOWING IRONMONGERY FIXED TO DOORS, ETC.**

Carried Forward

R

Section No. 1

Bill No. 2

3 x 4 BLOCK CLASSROOMS

Independent Development Trust

Nkomo Maboko Secondary School Provisional Bill of Quantities

**Brought Forward**

R

**Locks**

88 75mm Three lever upright mortice lockset with satin chrome furniture No 15.00

89 75mm Four lever upright mortice lockset with satin chrome furniture No 15.00

**SUNDRIES**

90 Nickel plated steel leaf spring door holder with rubber door stop plugged and screwed to floor No 30.00

**NUMERAL AND NAME PLATES**

**Clear perspex numeral plate reverse engraved and enamelled in numerals and/or letters, twice countersunk holed for and tapscrewed to steel door frames or gate framing with chromium plated dome-headed selftapping screws**

91 3mm Thick x 32mm wide plate with two numerals and/or letters No 15.00

92 3mm Thick x 60mm wide plate with three numerals and/or letters No 15.00

**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**

93 3mm Thick x 32mm wide plate with two numerals and/or letters No 15.00

**Indicator plates countersunk holed for and screwed to door or brickwork with chromium plated dome-headed screws**

94 190 x 190 x 3mm Thick white perspex international FB2 sign plate with red fire extinguisher symbol plugged to brickwork No 15.00

**Carried Forward**

R

Section No. 1  
Bill No. 2  
3 x 4 BLOCK CLASSROOMS  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

**WALL MOUNTED WRITING BOARDS**

95	Standard vitreous enamelled magnetic green board as SABS CKS-36-1980, size 4,8 x 1,14m high, consisting of two fixed panels each size 2,4 x 1,14m high complete with aluminium chalk rail and fixing components fixed to wall	No	15.00
----	---	----	-------

**BILL No10 : METALWORK**

**NOTE**

**: Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill**

**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**

96	Double gate in two equal leaves, each leaf formed of 50 x 25 x 1.6mm rectangular hollow section framing all round mitred and welded at angles with two 25 x 25 x 1.6mm mild steel square section 10mm diameter horizontal intermediate rails with ends welded to framing and with eight 19mm diameter rod vertical bars framed through intermediate rails with ends welded to framing (hinges, locking devices, etc. elsewhere); size 2000 x 2185mm high overall	No	12.00
----	--	----	-------

**The following in walkway roof support steelwork**

97	100 x 100 x 5mm Square hollow section posts	m	240.00
----	---	---	--------

**DOOR FRAMES, DOORS, WINDOWS, ETC.**

**PRESSED STEEL DOOR FRAMES**

**1,2mm Double rebated frames suitable for one brick walls**

98	Door frame for door size 0,813 x 2,032m with two 100mm steel butts without striking plate or opening in frame and prepared for roller catch or closet indicators	No	12.00
----	--	----	-------

**PRESSED STEEL DOOR FRAME SUNDRIES**

99	Standard residential window section RFX7 as threshold welded on to pressed steel door frame	m	30.00
----	---	---	-------

Carried Forward

R

Section No. 1

Bill No. 2

3 x 4 BLOCK CLASSROOMS

Independent Development Trust

Nkomo Maboko Secondary School Provisional Bill of Quantities

Brought Forward

R

**STEEL WINDOWS**

**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°**

**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**

**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**

**Standard residential type steel windows with burglar bars to fixed and opening sections**

100	Window type code 5/2 size 1,143 x 0,854m	No	120.00
101	Window type Code- 5 size 1,143 x 0,845m	No	18.00

**STEEL WINDOW SUNDRIES**

102	25 x 25 x 3mm Mild steel square tube beading mitred and welded to window or door framing on inside at junction with facings	m	45.00
103	Extra for flat closed end	No	180.00

**BILL No11 : PLASTERING**

**NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill**

**(3:1) CEMENT SCREEDS TO CONCRETE**

Carried Forward

R

Section No. 1

Bill No. 2

3 x 4 BLOCK CLASSROOMS

Independent Development Trust

Nkomo Maboko Secondary School Provisional Bill of Quantities



Brought Forward			R
<b><u>Coloured silicone sealing compound including backing cord, bond breaker, primer, etc.</u></b>			
110	5mm Wide x 22mm thick in expansion joint in tiled floors including cleaning tile joint as necessary	m	27.00
<b><u>BILL No13 : PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
<b><u>RAINWATER DISPOSAL</u></b>			
<b><u>0.58mm Galvanized sheet iron with Chromadek finish to match roof sheeting:</u></b>			
111	100 x 75mm Eaves gutters with beaded front edge.	m	324.00
112	Extra over eaves gutter for angle.	No	12.00
113	Extra over eaves gutter for outlet for 100 x 75mm pipe.	No	12.00
114	100 x 75mm Rainwater pipe.	m	42.00
115	Extra over rainwater pipe for shoe.	No	12.00
116	Extra over rainwater pipe for eaves or plinth offset 600mm projection.	No	12.00
<b><u>Fire appliances, etc.</u></b>			
117	4,5kg 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	15.00
<b><u>BILL No14 : GLAZING</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
Carried Forward			R
Section No. 1 Bill No. 2 3 x 4 BLOCK CLASSROOMS <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

Brought Forward			R
	<b><u>Glass in steel fixed with putty</u></b>		
118	4mm Clear toughened glass in squares exceeding 0,1 and not exceeding 0,5 square metre in area	m2	150.00
	<b><u>BILL No15 : PAINTWORK</u></b>		
	<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>		
	<b><u>PAINT ON PLASTER, ETC.</u></b>		
	<b><u>Prepare and apply one merit universal undercoat and two coats "Polvin" super acrylic PVA paint</u></b>		
119	On walls	m2	1,020.00
	<b><u>PAINT ON FIBRE CEMENT</u></b>		
	<b><u>Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use</u></b>		
120	On external fibre-cement fascias and bargeboards including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	180.00
	<b><u>PAINT ON GYPSUM SURFACES</u></b>		
	<b><u>Prepare, stop and apply two full coats semi-gloss PVA co-polymer paint to comply with SABS Specification No 643</u></b>		
121	On internal plasterboard ceilings including priming steel joints and nail heads with one coat zinc phosphate alkyd resin primer	m2	912.00
	<b><u>PAINT ON METAL</u></b>		
	<b><u>Prepare, touch up factory primer and apply one coat universal undercoat and two full coats high gloss enamel paint</u></b>		
122	On general surfaces of fittings	m2	177.00
123	On sashes and frames with burglar bars (both sides measured)	m2	510.00
	<b>Carried Forward</b>		R
	Section No. 1 Bill No. 2 3 x 4 BLOCK CLASSROOMS <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>		

Brought Forward			R
	<b><u>Prepare and apply one coat universal undercoat, two coats gloss enamel paint.</u></b>		
124	On pressed steel door frames	m2	72.00
	<b><u>PAINT ON WOOD</u></b>		
	<b><u>Prepare and apply two full coats washable mat acrylic PVA paint</u></b>		
125	On softboard pinning boards	m2	75.00
	<b><u>Prepare and apply one coat wood primer</u></b>		
	<b><u>Prepare, stop and apply two full coats polyurethane clear eggshell varnish, lightly sanded down between coats</u></b>		
126	On general surfaces of fittings	m2	150.00
127	On skirtings, rails, etc. not exceeding 300mm girth	m	360.00
128	On general surfaces of fittings not exceeding 300mm girth	m	150.00
	<b><u>Prepare, stop and apply three full coats polyurethane clear eggshell varnish, lightly sanded down between coats</u></b>		
129	On batten doors (measured on flat)	m2	57.00
	<b><u>Prepare and apply one coat hardboard primer, one coat universal undercoat and two full coats high gloss enamel paint</u></b>		
130	On doors	m2	57.00
	<b><u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</u></b>		
	<b><u>Pinning boards</u></b>		
131	2400mm x 1200mm high Felt pinning board. Colour: Stone. Deluxe anodised aluminium frame. Rounded plastic corners. Can be mounted horizontally or vertically. Including mounting brackets, screws and mounting Instructions	No	12.00
Carried Forward			R
Section No. 1 Bill No. 2 3 x 4 BLOCK CLASSROOMS <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

**Brought Forward**

R

**Whiteboard**

132

2000 x 1300mm Interactive whiteboard as approved, wall mounted, complete with intergrated pen tray and protector. All additional items to be included. Installation and maintenance all according to manufacturers specifications

No

12.00

**Carried Forward to Summary of Section No. 1**

R

Section No. 1

Bill No. 2

3 x 4 BLOCK CLASSROOMS

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Item No	Quantity	Rate	Amount
<p><u>Section 2.2</u> <u>Admin Building</u></p>			
<p><b><u>BILL No1 : FOUNDATIONS (PROVISIONAL)</u></b></p>			
<p><b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u></b></p>			
<p><b><u>Foundation brickwork and concrete walls have been measured to top of unfinished floor level</u></b></p>			
<p><b><u>EARTHWORKS</u></b></p>			
<p><b><u>NOTE : All excavations are measured as being in "earth" and/or filling compacted to 95% modified AASHTO density. Descriptions of excavations shall be deemed to include for setting aside surplus excavated material in spoil heaps for use as filling, or for depositing within 150m of the perimeter of the excavations and spreading and roughly levelling as directed, as well as for increase in bulk and multiple handling of excavated material caused by the Contractor's method of operation. Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site and for bulking</u></b></p>			
<p><b><u>Working space for formwork to sides of all concrete, except columns, shall be measured only where the concrete face is less than 750mm from the face of the measured excavations. Working space for formwork to sides of columns shall be measured for the width of the column face only where both the top of the column base is more than 1,5m below the commencing level of the excavations and the column face is less than 500mm from the face of the measured excavations</u></b></p>			
<p>Carried Forward</p>		R	
<p>Section No. 1 Bill No. 3 ADMIN BUILDING Independent Development Trust Nkomo Maboko Secondary School Provisional Bill of Quantities</p>			

Brought Forward

R

**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**

**Excavations**

**Excavate in earth not exceeding 2m deep below natural, elevated or reduced ground level for**

1	Reducing levels	m3	119.00
2	Trenches	m3	74.00
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	164.00
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	4.00
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	210.00
7	Allow for keeping excavations free of all water other than subterranean water		Item
<b><u>Filling, etc.</u></b>			
8	Backfilling from the excavations to trenches and holes compacted to 90% modified AASHTO density	m3	29.00
9	Imported earth filling supplied by the Contractor and brought onto site, under solid floors, steps, paving's, etc. compacted to 93% modified AASHTO density	m3	119.00
10	Prepare ground surface by scarifying top 150mm layer of ground and re-compact to 90% modified AASHTO density	m2	297.00

Carried Forward

R

Section No. 1

Bill No. 3

ADMIN BUILDING

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

<b>Brought Forward</b>			R
<b><u>Tests</u></b>			
11	Tests to determine the degree of compaction, etc. of ground or filling	No	6.00
<b><u>Protection against termites</u></b>			
12	Poisoning surface of ground in bottoms of trenches, bases, etc.	m2	94.00
13	Poisoning surface of ground or filling under floors, steps, etc. including raking out 75mm deep V-shaped channels against the walls, etc. treating with poison solution, backfilling and ramming	m2	297.00
<b><u>BILL No2 : CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u></b>			
<b><u>Concrete test cubes</u></b>			
14	Prepare set of three 150 x 150 x 150mm concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for	No	12.00
<b><u>REINFORCED CONCRETE</u></b>			
<b><u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25MPa at 28 days</u></b>			
15	In footings to walls cast against excavated surfaces, stepped and levelled	m3	31.00
16	In aprons including thickening down edge of 150 x 100mm high including all necessary excavations, compactions, etc.	m3	11.00
17	In surface beds cast on waterproofing	m3	30.00
18	In slabs	m3	1.00
<b><u>Sundries</u></b>			
<b>Carried Forward</b>			R
Section No. 1 Bill No. 3 ADMIN BUILDING <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

Brought Forward			R
<b><u>Finishing top surfaces of concrete smooth with a wood float</u></b>			
19	Surface beds, slabs, etc.	m2	286.00
20	Aprons to a non - slip finish	m2	109.00
<b><u>FORMWORK</u></b>			
<b><u>Rough Formwork</u></b>			
21	Edges, risers, ends and reveals not exceeding 300mm high	m	91.00
<b><u>Smooth Formwork</u></b>			
22	Soffits of adjacent flush surfaces of troughed slabs exceeding not exceeding 250mm thick propped up not exceeding 3.5m high	m2	8.00
<b><u>Movement Joints</u></b>			
23	Movement joint not exceeding 300mm wide formed of 20mm bitumen impregnated softboard placed vertically in position between concrete bases	m	127.00
<b><u>REINFORCEMENT</u></b>			
<b><u>Mild steel reinforcement to structural concrete work</u></b>			
24	All diameter bars	t	0.320
<b><u>High tensile steel reinforcement to structural concrete work</u></b>			
25	All diameter bars	t	2.880
<b><u>Fabric reinforcement</u></b>			
26	Type 245 fabric reinforcement in concrete surface beds, aprons, etc.	m2	395.00
<b><u>BILL No 3 : MASONRY</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
Carried Forward			R
Section No. 1 Bill No. 3 ADMIN BUILDING <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

Brought Forward			R
<b><u>IN FOUNDATIONS (PROVISIONAL)</u></b>			
<b><u>BRICKWORK IN BURNT CLAY BRICKS IN (5:1) CEMENT MORTAR</u></b>			
27	One brick wall	m2	61.00
<b><u>IN SUPERSTRUCTURE (PROVISIONAL)</u></b>			
<b><u>BRICKWORK IN BURNT CLAY BRICKS IN (5:1) CEMENT MORTAR</u></b>			
28	Half brick wall	m2	122.00
29	Half brick wall in beamfilling	m2	15.00
30	One brick wall	m2	378.00
<b><u>BRICK REINFORCEMENT</u></b>			
31	Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	403.00
32	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	1,470.00
<b><u>TEMPORARY TURNING PIECES, ETC.</u></b>			
33	To flat brick lintels not exceeding 300mm wide	m	40.00
<b><u>SUNDRIES</u></b>			
<b><u>Hoop iron iron roof ties</u></b>			
34	38 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	90.00
<b><u>Nutec fibre-cement sills in single lengths bedded in class I mortar including metal fixing lugs, etc</u></b>			
35	15 x 150mm Wide sills set flat and slightly projecting bedded in cement mortar	m	29.00
<b><u>FACED BRICKWORK</u></b>			
Carried Forward			R
Section No. 1 Bill No. 3 ADMIN BUILDING <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

Brought Forward

R

**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**

**Extra over brickwork for face brickwork**

36	Extra over ordinary brickwork for facing and pointing in stretcher bond in foundations	m2	31.00
37	Extra over ordinary brickwork for facing and pointing in stretcher bond	m2	561.00
38	Extra over ordinary brickwork in piers for facing and pointing in stretcher bond	m2	6.00
39	Extra over ordinary brickwork in beamfilling for facing and pointing in stretcher bond	m2	15.00
40	Face brick-on-edge flat lintel course in cement mortar 220mm wide on soffit and pointing on 110mm wide projecting soffit and one side	m	29.00
41	Face brick-on-edge flat lintel course in cement mortar 220mm wide on soffit and pointing on soffit and both sides	m	40.00
42	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	29.00

**BILL No 4 : WATERPROOFING**

**NOTE : Tenderers are advised to study the  
"Specification of Materials and Methods to be used"  
(OOG-001E) before pricing this bill**

**DAMP-PROOFING TO WALLS**

43	375 Micron embossed black polyethylene damp-proof course to walls, cills, etc. (measured net)	m2	36.00
----	---	----	-------

**DAMP-PROOFING UNDER FLOORS, ETC.**

Carried Forward

R

Section No. 1

Bill No. 3

ADMIN BUILDING

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

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

44 250 Micron green medium density damp-proof membrane laid loose on top of sand bed (elsewhere) under solid floors with pressure sensitive tape jointing m2 286.00

**BILL No 5 : ROOF COVERINGS**

**NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill**

**PROFILED METAL SHEETING AND ACCESSORIES**

**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**

**When the pitch of troughed roof covering is less than 5 degrees or if dust proofing is required then the description of roof coverings "with side laps sealed" is to be used**

**Where roof coverings are fixed on top of rigid board insulation to purlins etc descriptions of roof coverings are to include therefore**

**0.6mm "Kliplok" roof sheeting in Chromadek finish on 76 x 50mm SA pine purlins at max 1200mm c/c on patent and approved prefabricated roof truss system**

45 Roof sheeting with pitch not exceeding 25° fixed to timber purlins (elsewhere) m2 353.00

**'Klip-Lok 406' Flashings:**

46 Gable trim 370mm girth three times bent to detail and fixed to roof sheeting (elsewhere) m 41.00

47 Ridge covering 450mm girth and fixed to timber purlins (elsewhere) m 25.00

Carried Forward

R

Section No. 1

Bill No. 3

ADMIN BUILDING

Independent Development Trust

Nkomo Maboko Secondary School Provisional Bill of Quantities

<b>Brought Forward</b>			R
48	Headwall flashing 375mm girth fixed to roof structure (elsewhere)	m	5.00
49	Valley gutter 360mm girth fixed to roof structure (elsewhere)	m	10.00
<b><u>BILL No 6 : CARPENTRY AND JOINERY</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
<b><u>ROOFS, ETC.</u></b>			
<b><u>Plate nailed timber roof truss construction</u></b>			
50	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: 30.63 x 11.30m with 0.6m overhangs at eaves with porches on both sides size 1.62 x 3.23m	No	1.00
<b><u>FASCIAS AND BARGEBOARDS</u></b>			
<b><u>Tempered fibre-cement</u></b>			
51	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	87.00
<b><u>SKIRTINGS</u></b>			
<b><u>Wrought Meranti</u></b>			
52	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	227.00
<b><u>DOORS</u></b>			
<b><u>Semi-solid flush doors with 3,2mm standard hardboard covering on both sides hung to steel frames</u></b>			
53	Door size 813 x 2032mm high	No	11.00
<b>Carried Forward</b>			R
Section No. 1 Bill No. 3 ADMIN BUILDING <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

Brought Forward

R

**JOINERY FITTINGS**

**THE FOLLOWING IN PINNING BOARDS**

**Softboard pinning boards**

54 10mm Thick softboard pinning board fixed to plastered wall with an approved adhesive m2 14.00

**Wrought Saligna**

55 19 x 50mm Twice rebated and twice angle rounded framing plugged and pelleted m 34.00

**THE FOLLOWING IN SHELVING IN STORE ROOMS**

**Melamine shelving**

56 4 Rows 450mm wide x 16mm thick melamine shelving on wall bands and brackets at 600mm centres m 15.00

**THE FOLLOWING IN KITCHEN FITTINGS**

**Formica worktops**

57 Floor cabinets on levellers with Formica worktops over, complete with aluminium skirtings, to receive drop in sink (elsewhere measured) m 4.00

**THE FOLLOWING IN RECEPTION / CLERK OFFICE**

**Formica worktops**

58 5200mm Long x 600mm wide x 32mm thick Formica worktop on powder coated steel brackets including 1 x F450/3 drawer unit No 1.00

**THE FOLLOWING IN PRINCIPAL OFFICE**

**Formica worktops**

59 5300mm Long storage cupboards on levellers with 32mm thick Formica worktop over No 1.00

**THE FOLLOWING IN VICE PRINCIPAL OFFICE**

Carried Forward

R

Section No. 1

Bill No. 3

ADMIN BUILDING

Independent Development Trust

Nkomo Maboko Secondary School Provisional Bill of Quantities

Brought Forward

R

**Formica worktops**

60 2400mm Long storage cupboards on levellers with 32mm thick Formica worktop over No 1.00

**THE FOLLOWING IN SHELVING IN STRONG ROOM**

**Melamine shelving**

61 4 Rows 300mm wide x 16mm thick melamine shelving on wall bands and brackets at 600mm centres m 7.00

**THE FOLLOWING IN PRINT ROOM**

**Formica worktops**

62 2800mm x 600mm Wide x 32mm thick Formica worktop over floor cabinets No 1.00

**BUILT IN CUPBOARDS**

**Wrought softwood**

63 Built-in cupboards approximately 2.800m high m 5.00

**SEATING**

**Wrought softwood**

64 Slatted seats, etc of 20 x 75mm slats at 100mm centres fixed to walls with approved brackets m 7.00

**BILL No 7 : CEILINGS, PARTITIONS AND ACCESS FLOORING**

**NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill**

**CEILINGS**

**NAILED UP CEILINGS**

**Mineral wool insulation**

65 50mm Insulation closely fitted and laid on top of branderling between roof timbers etc. m2 262.00

Carried Forward

R

Section No. 1

Bill No. 3

ADMIN BUILDING

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

<b>Brought Forward</b>		R
<b><u>6mm "Cladit" fibre-cement ceilings boards</u></b>		
66	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 262.00
67	Extra over fibre-cement ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No 2.00
<b><u>"Rhino" Gypsum plasterboard cornices</u></b>		
68	75mm Coved cornices	m 255.00
<b><u>BILL No 8 : IRONMONGERY</u></b>		
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>		
<b><u>Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish</u></b>		
<b><u>THE FOLLOWING IRONMONGERY FIXED TO DOORS, ETC.</u></b>		
<b><u>HINGES</u></b>		
<b><u>"Union" or similar approved</u></b>		
69	100mm Mild steel butterfly hinges	No 33.00
<b><u>LOCKS</u></b>		
<b><u>"Solid"</u></b>		
70	"Blesbok" 460/313 four lever lockset including handles	No 11.00
<b><u>BATHROOM FITTINGS</u></b>		
<b><u>"Solid"</u></b>		
71	Lockable 3 roll toilet roll holder plugged	No 2.00
<b>Carried Forward</b>		R
Section No. 1 Bill No. 3 ADMIN BUILDING <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>		

Brought Forward			R
72	Wall mounted soap dispenser plugged to plastered or tiled walls	No	3.00
73	19mm Stainless steel chromium plated towel ring, 300mm diameter, with fixing bracket plugged to plastered or tiled wall	No	3.00
74	Brass hat and coat hook with rubber buffer	No	2.00
<b><u>SUNDRIES</u></b>			
<b><u>"Union"</u></b>			
75	38mm Rubber door stop plugged and screwed to wall or floor	No	14.00
<b><u>Brass dividing strips</u></b>			
76	3 x 25mm Brass dividing strip between different floor finishes	m	14.00
<b><u>NUMERAL AND NAME PLATES</u></b>			
<b><u>Clear Perspex numeral plate reverse engraved and enamelled in numerals and/or letters, twice countersunk holed for and tapscrewed to steel door frames or gate framing with chromium plated dome-headed self-tapping screws</u></b>			
<b><u>2mm Thick anodized aluminium plates countersunk screwed along edges</u></b>			
77	150 x 150 mm male/female/paraplegic indicator plate	No	2.00
<b><u>BILL No 9 : METALWORK</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
<b><u>EXPANSION BOLTS : Expansion bolts shall be fixed in accordance with the manufacturer's instructions and prices are to include for drilling mortice for sockets in brickwork or concrete for same</u></b>			
<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
Carried Forward			R
Section No. 1 Bill No. 3 ADMIN BUILDING Independent Development Trust Nkomo Maboko Secondary School Provisional Bill of Quantities			

Brought Forward

R

**1,2mm Double rebated frames suitable for half brick walls**

78 Frame for door size 813 x 2032mm high No 9.00

**1,2mm Double rebated frames suitable for one brick walls**

79 Frame for door size 813 x 2032mm high No 2.00

**STEEL WINDOWS**

**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°**

**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**

**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**

**Standard residential type steel windows with burglar bars to fixed and opening sections**

80 Window type CAT SWE418 size 1500 x 1000mm high (W1) No 14.00

81 Window type CAT SWE37S size 950 x 850mm high (W3) No 3.00

82 Window type CAT SWE31S size 533 x 850mm high (W4) No 5.00

83 Window type CAT SWE37S/SWE37S size 2000 x 1100mm high (W8) No 1.00

**ALUMINIUM WINDOWS AND DOORS**

Carried Forward

R

Section No. 1

Bill No. 3

ADMIN BUILDING

Independent Development Trust

Nkomo Maboko Secondary School Provisional Bill of Quantities

Brought Forward

R

**Anodized aluminium door units including 6mm PVB Fadeband laminated safety glass, approved double cylinder lockset, double sided satin chrome finish handles, floor spring door closer for the complete installation fixed to brickwork**

84 Door size 1575 x 2100mm high No 2.00

**Anodized aluminium window units, including 6mm glazing complete fixed to brickwork**

85 Window size 1525 x 1300mm high (W5) No 1.00

86 Window size 1625 x 1300mm high (W6) No 1.00

87 Window size 2400 x 1300mm high (W7) No 1.00

**STRONGROOM DOORS, WALL SAFES AND VENTILATORS**

**"Bishoff" or similar approved**

88 Fireguard B.S.6 door, frame and ventilator, including 7 lever security lockset as supplied by the manufacturer build into brickwall No 1.00

**SECURITY GATES**

**The following in twenty four framed and welded mild steel security gates and fixing in position complete**

89 Double gate in two equal leaves, each leaf formed of 50 x 25 x 1.6mm rectangular hollow section framing all round mitred and welded at angles with two 25 x 25 x 1.6mm mild steel square section 10mm diameter horizontal intermediate rails with ends welded to framing and with eight 19mm diameter rod vertical bars framed through intermediate rails with ends welded to framing, including 6 No x 100mm long butterfly hinges per gate - 3 No per leaf, four lever lockset and handles complete; size 2000 x 2185mm high overall No 2.00

**BILL No 10 : PLASTERING**

**NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill**

**(3:1) CEMENT SCREEDS TO CONCRETE**

Carried Forward

R

Section No. 1

Bill No. 3

ADMIN BUILDING

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

**23mm Thick**

90 On floors to receive ceramic floor tiles (elsewhere measured) m2 279.00

**INTERNAL PLASTER**

**ONE COAT (4:1) CEMENT PLASTER FINISHED TO A SMOOTH AND EVEN STEEL TROWELLED SURFACE**

**On brickwork**

91 On walls m2 439.00

92 On narrow widths m2 25.00

**ONE COAT (3:1) CEMENT PLASTER FINISHED TO A SMOOTH AND EVEN STEEL TROWELLED SURFACE**

**On concrete**

93 On ceilings m2 6.00

**BILL No 11 : TILING**

**NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill**

**WALL TILES**

**198 x 198 x 6mm WHITE GLAZED CERAMIC WALL TILES FIXED WITH AN APPROVED TILE ADHESIVE TO PLASTER (PLASTER ELSEWHERE) AND WITH JOINTING COMPOUND**

94 On walls m2 56.00

95 In narrow widths m2 5.00

**FLOOR TILES**

**NON-SLIP GROOVED PRICE GROUP A TERRAZZO FLOOR TILES OF APPROVED DARK COLOUR BEDDED AND JOINTED IN (3:1) CEMENT MORTAR AND POINTED IN COLOURED CEMENT MORTAR**

Carried Forward

R

Section No. 1

Bill No. 3

ADMIN BUILDING

Independent Development Trust

Nkomo Maboko Secondary School Provisional Bill of Quantities

Brought Forward			R
<b><u>250 x 250 x 22mm Thick tiles (35mm total thickness)</u></b>			
96	On floors	m2	292.00
97	In narrow widths	m2	37.00
<b><u>BILL No 12 : PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill</u></b>			
<b><u>SOIL DRAINAGE</u></b>			
<b><u>uPVC Pipes</u></b>			
98	100mm Pipes laid in and including trenches not exceeding 1m	m	50.00
<b><u>Extra over uPVC pipes for fittings</u></b>			
99	100mm Bend	No	6.00
<b><u>uPVC gulleys</u></b>			
100	110mm Dished gulley exceeding 750mm and not exceeding 1000mm deep	No	1.00
<b><u>RAINWATER DISPOSAL</u></b>			
<b><u>0.58mm Galvanized sheet iron with Chromadek finish to match roof sheeting:</u></b>			
101	100 x 100mm Eaves gutters with beaded front edge	m	87.00
102	Extra over 100 x 100mm eaves gutter for outlet for 100mm pipe	No	12.00
103	100mm Diameter rainwater pipes	m	44.00
104	Extra over 100mm rainwater pipe for bend	No	24.00
105	Extra over 100mm rainwater pipe for shoe	No	12.00

Carried Forward

R

Section No. 1  
 Bill No. 3  
 ADMIN BUILDING  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward			R
<b><u>SANITARY FITTINGS</u></b>			
106	560 x 405mm White vitreous china wash hand basin complete with and including two chromium plated pillar taps, waste, plug and chain and concealed brackets	No	3.00
107	WC suite comprising white vitreous china pan with P trap, 9 litre low-level white vitreous china cistern complete with valve less syphonic fitting, ball valve and matching flush pipe and heavy duty white single flap seat	No	2.00
108	Drop-in type sink and drainer of grade 304 (18/8) stainless steel size 1 050 x 535mm wide with splashback and 460 x 355 x 150mm deep single end bowl including chromium plated waste, plug and chain and bedded in opening (elsewhere) in timber worktop in silicone	No	1.00
<b><u>Traps, etc. including joints to steel pipes and/or fittings unless otherwise described</u></b>			
109	40-40mm Butyl rubber deep seal P or S trap	No	1.00
110	40-40mm Chromium plated bottle trap	No	3.00
<b><u>Valves, etc. including joints to steel pipes and/or fittings unless otherwise described</u></b>			
111	15mm Copper service pipe 350mm girth	No	4.00
112	15mm "Cobra 107" or similar approved Chromium plated hose union bib tap	No	4.00
113	15mm Chromium plated full way ball cock shut-off control valve with screw type control	No	4.00
114	15mm Chromium plated wall flange and extension piece	No	4.00
<b><u>SANITARY PLUMBING</u></b>			
<b><u>uPVC pipes</u></b>			
115	100mm uPVC Pipe laid in/under floors or fixed to walls, roof timbers, etc.	m	20.00
Carried Forward			R
Section No. 1 Bill No. 3 ADMIN BUILDING <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

<b>Brought Forward</b>				R
<b><u>Extra over uPVC pipes for fittings</u></b>				
116	100 x 50mm Reducer	No	1.00	
117	100mm Bend	No	3.00	
118	100mm Junction	No	1.00	
119	100mm Pan connector	No	2.00	
120	100mm VP stub stack fitting with ABC cleaning eye lid and multiple connections for 50mm waste	No	1.00	
121	100mm Access bend	No	2.00	
122	100mm Access bend with anti-syphon horn	No	2.00	
123	100mm Access junction	No	1.00	
124	100mm Access reducing junction	No	1.00	
125	100mm Double reducing junction	No	1.00	
126	Two way uPVC air admittance valve suitable for 50mm pipe	No	1.00	
<b><u>WATER SUPPLY</u></b>				
<b><u>Class 3 copper pipes and fittings with capillary soldered connections</u></b>				
127	15mm Pipe chased into walls	m	20.00	
128	15mm Pipe laid in/under floors or fixed to walls, roof timbers, etc.	m	8.00	
129	22mm Pipe chased into walls	m	30.00	
130	22mm Pipe laid in/under floors or fixed to walls, roof timbers, etc.	m	16.00	
131	25mm Pipe laid in/under floors or fixed to walls, roof timbers, etc.	m	6.00	
<b>Carried Forward</b>				R
Section No. 1 Bill No. 3 ADMIN BUILDING <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>				

<b>Brought Forward</b>				R
<b><u>Extra over class 3 copper pipes for soldered capillary fittings</u></b>				
132	15mm Fittings	No	6.00	
133	22mm Fittings	No	14.00	
134	25mm Fittings	No	4.00	
<b><u>WATER SUPPLIES TO FIRE APPLIANCES</u></b>				
<b><u>Galvanized mild steel pipes</u></b>				
135	50mm Pipe laid in and including trenches not exceeding 1000mm deep	m	50.00	
136	40mm Pipe laid in/under floors or fixed to walls, roof timbers, etc.	m	35.00	
<b><u>Extra over galvanized mild steel pipes for:</u></b>				
137	40mm Bends	No	4.00	
138	40mm Bush	No	1.00	
139	40mm Socket union	No	1.00	
140	50mm Bends	No	8.00	
141	50mm Bush	No	2.00	
<b><u>Fire appliances etc.</u></b>				
142	"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	
143	9kg DCP dry powder portable fire extinguisher on and including wrought Meranti backboard size 520 x 100 x 22mm thick plugged and screwed to wall and finished with two coats of polyurethane varnish, including 120 x 20 x 2mm mild steel strip bent to form hook	No	3.00	
<b><u>HOT WATER CYLINDERS</u></b>				
<b>Carried Forward</b>				R
Section No. 1 Bill No. 3 ADMIN BUILDING <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>				

Brought Forward

R

**"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)**

144 150 Litre Hot water cylinder No 1.00

**TESTING**

145 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

**BUILDER'S WORK, INCLUDING ALL MAKING GOOD MASONRY**

146 Fair cutting and fitting of facings around pipe not exceeding 100mm diameter No 6.00

**PAINTWORK**

**Prepare, prime with a self-etching primer and apply one coat universal undercoat and one full coat high gloss enamel paint**

**On galvanized mild steel**

147 Pipe not exceeding 300mm girth m 21.00

**Carried Forward to Summary of Section No. 1**

R

Section No. 1  
Bill No. 3  
ADMIN BUILDING  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Item No		Quantity	Rate	Amount
	<b><u>Section 2.4</u></b>			
	<b><u>1 Block Enviro Loo 6 Toilets (No4)</u></b>			
	<b><u>BILL No 1</u></b>			
	<b><u>ENVIROLOO TOILETS (ALL TRADES BILL)</u></b>			
	<b><u>PREAMBLES</u></b> For preambles refer to Specification of Materials and Method to be used			
	<b><u>SITE CLEARANCE ETC</u></b>			
	<b><u>Site clearance</u></b>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	624.80	
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m2	624.80	
	<b><u>EXCAVATIONS, FILLING, ETC, OTHER THAN BULK</u></b>			
	<b><u>Excavation in earth not exceeding 2m deep</u></b>			
3	Pit	m3	624.80	
4	Trenches in pit	m3	48.40	
	<b><u>Excavation in earth not exceeding 2m deep</u></b>			
5	Trenches	m3	66.00	
	<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>			
6	Soft rock	m3	79.20	
7	Hard rock	m3	39.60	
	<b><u>Extra over all excavations for carting away</u></b>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	699.60	
	<b>Carried Forward</b>			R
	Section No. 1 Bill No. 4 4 BLOCKS ENVIRO LOO 6 TOILETS <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

<b>Brought Forward</b>			R
<b><u>Risk of collapse of excavations</u></b>			
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	365.20
10	Sides of trench and pit excavations exceeding 1,5m deep	m2	343.20
<b><u>Keeping excavations free of water</u></b>			
11	Keeping excavations free of water		Item
<b><u>Earth filling obtained from the excavations on site and compacted to 93% Mod AASHTO density</u></b>			
12	Backfilling to trenches, holes, etc	m3	96.80
13	Under floors, steps, paving etc.,	m3	79.20
<b><u>Compaction of surfaces</u></b>			
14	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	277.20
<b><u>Approved soil insecticide</u></b>			
15	Under floors etc including forming and poisoning V-shaped channels against foundation walls etc, filling in channels and ramming	m2	277.20
16	To bottom and sides of trenches, holes etc	m2	690.80
<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
<b><u>Test Blocks</u></b>			
17	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	44.00
<b><u>REINFORCED CONCRETE</u></b>			
<b>Carried Forward</b>			R
Section No. 1 Bill No. 4 4 BLOCKS ENVIRO LOO 6 TOILETS <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

Brought Forward				R
<b><u>25MPa/19mm concrete</u></b>				
18	Strip footings	m3	30.80	
19	Strip footings in pit	m3	22.00	
20	Thickening under surface bed	m3	13.20	
21	Surface beds in pit	m3	13.20	
22	In surface beds cast on waterproofing(elsewhere)	m3	13.20	
23	In surface beds cast to falls	m3	13.20	
24	In aprons/paving's/ramps cast in panels	m3	17.60	
25	Thickening down apron on edge 110 x 200mm wide, including all necessary excavations, backfilling and compacting.	m	184.80	
26	Slabs	m3	17.60	
<b><u>SUNDRIES</u></b>				
<b><u>Finishing top surfaces of concrete smooth with a woodfloat</u></b>				
27	Aprons, paving's, ramps, etc	m2	61.60	
<b><u>Finishing top surfaces of concrete with a steel trowel</u></b>				
28	Surface beds, slabs, etc.	m2	189.20	
<b><u>FORMWORK</u></b>				
<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u></b>				
<b><u>Rough formwork to</u></b>				
29	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	136.40	
<b><u>Permanent formwork to soffits</u></b>				
30	Corrugated iron sheets as permanent formwork	m2	123.20	
Carried Forward				R
Section No. 1				
Bill No. 4				
4 BLOCKS ENVIRO LOO 6 TOILETS				
<b>Independent Development Trust</b>				
<b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>				

<b>Brought Forward</b>			R
31	Form 500mm diameter opening in floor slab	No	27.00
<b><u>REINFORCEMENT (PROVISIONAL)</u></b>			
<b><u>Fabric reinforcement</u></b>			
32	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	140.80
<b><u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u></b>			
<b><u>Brickwork of NFX bricks (14MPa nominal compressive strength) in class I mortar in foundations</u></b>			
33	One brick walls in holes	m2	233.20
34	One brick walls	m2	176.00
35	115mm Brick corbelling in pit	m	154.00
<b><u>Brickwork reinforcement</u></b>			
36	150mm Wide reinforcement built in horizontally	m	4,818.00
<b><u>FACE BRICKWORK</u></b>			
<b><u>Equal and approved facebricks to match existing pointed with recessed horizontal and vertical joints</u></b>			
37	Extra over brickwork for face brickwork	m2	228.80
<b><u>INTERNAL PLASTER</u></b>			
<b><u>Cement plaster on brickwork;</u></b>			
38	On walls in pit	m2	250.80
<b><u>FLOOR AND WALL SEALERS</u></b>			
<b><u>Minimum two coats 'approved' black epoxy coat: Cement plaster on brickwork;</u></b>			
39	On internal textured plaster walls	m2	250.80
<b><u>SUPERSTRUCTURE</u></b>			
<b>Carried Forward</b>			R
Section No. 1 Bill No. 4 4 BLOCKS ENVIRO LOO 6 TOILETS <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

Brought Forward			R
<b><u>Brickwork of NFP bricks (7 MPa nominal compressive strength) in class II mortar</u></b>			
40	Half brick walls in beamfilling	m2	30.80
41	Half brick walls	m2	132.00
42	One brick walls	m2	211.20
<b><u>Brickwork reinforcement</u></b>			
43	75mm Wide reinforcement built in horizontally	m	2,323.20
44	150mm Wide reinforcement built in horizontally	m	1,298.00
<b><u>Galvanised wire ties etc</u></b>			
<b><u>Turning pieces</u></b>			
45	115mm Wide turning pieces to lintels etc	m	79.20
46	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	m	88.00
<b><u>Prestressed fabricated lintels</u></b>			
47	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	83.60
48	110mm x 70mm Lintel exceeding 3m long, hoisted into position and laid over concrete roof slab	m	48.40
<b><u>FACE BRICKWORK</u></b>			
<b><u>Facebricks pointed with recessed horizontal and vertical joints</u></b>			
49	Face brick piers	m3	5.72
50	Half brick walls	m2	154.00
51	Extra over brickwork for face brickwork	m2	198.00
52	Fair raking cutting	m	154.00
Carried Forward			R
Section No. 1 Bill No. 4 4 BLOCKS ENVIRO LOO 6 TOILETS <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

Brought Forward		
<b><u>Brick-on-edge header course copings, sills, etc of face bricks pointed with recessed joints on all exposed faces</u></b>		
53	Extra over brickwork for brick-on-edge header course lintel pointed on face and 110mm soffit	m 22.00
54	Extra over brickwork for brick-on-edge 100mm wide sill set sloping and slightly projecting	m 26.40
55	Extra over coping	m 26.40
<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>		
<b><u>NUTEC-CEMENT WINDOW SILLS</u></b>		
<b><u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc</u></b>		
56	15 x 150mm Wide sills set flat and slightly projecting	m 26.40
<b><u>One layer of type 375 micron Consol Plastics Brikgrip DPC or equal and approved embossed damp proof course</u></b>		
57	In walls	m2 48.40
<b><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></b>		
58	Under surface beds	m2 180.40
<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>		
<b><u>0,6mm "IBR" Z275 spelter galvanised troughed sheet steel in single lengths fixed to timber purlins and 0,6mm galvanised sheet steel accessories</u></b>		
59	Roof covering with pitches not exceeding 25 degrees	m2 158.40

R

Carried Forward

R

Section No. 1

Bill No. 4

4 BLOCKS ENVIRO LOO 6 TOILETS

Independent Development Trust

Nkomo Maboko Secondary School Provisional Bill of Quantities

<b>Brought Forward</b>			R
<b><u>ROOFS CONSTRUCTION</u></b>			
60	Roof construction over Enviro-loo toilet building approximate flat area, 24 m2 on plan complete including trusses, jackrafters, 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	4.00
<b><u>Sawn softwood grade 4</u></b>			
61	38 x 114mm Wall plates	m	92.40
<b><u>Sundries</u></b>			
62	Two coats creosote on sawn timbers	m2	96.80
63	4mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied tog	No	88.00
<b><u>EAVES, VERGES, ETC</u></b>			
<b><u>Everite FC77 pressed fibre-cement</u></b>			
64	15 x 230mm Fascias boards including galvanised steel H-profile jointing strips	m	158.40
<b><u>INSULATION</u></b>			
<b><u>Aerolite insulation.</u></b>			
65	50mm Insulation closely fitted and laid on top of brandering, between roof timbers.	m2	74.80
<b><u>FIBRE CEMENT CEILINGS</u></b>			
<b><u>6mm "Nu-tec" pressed fibre-cement boards with H-type pressed steel jointing strips</u></b>			
66	Ceiling boarding secured horizontally to and including 38mm x 50mm timber brandering at 400mm centres in one direction including coved cornice.	m2	74.80
67	Extra over ceiling for opening for 650 x 650 mm trap door complete with trimmers, frame, cross branders, ceiling board, hinges, etc	No	35.20
<b>Carried Forward</b>			R
Section No. 1 Bill No. 4 4 BLOCKS ENVIRO LOO 6 TOILETS <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

<b>Brought Forward</b>			R
<b><u>Rhino gypsum plasterboard cornices</u></b>			
68	75mm Coved cornices	m	211.20
<b><u>LOCKS</u></b>			
<b><u>Union or equal and approved</u></b>			
69	682-24-52 SC Three Lever lockset	No	27.00
<b><u>LETTERS, NAMEPLATES, ETC</u></b>			
70	75 x 150mm Natural anodised aluminium plate with female symbol	No	27.00
<b><u>FITINGS ETC</u></b>			
<b><u>Nampak</u></b>			
71	TR2 lockable toilet roll holder plugged	No	27.00
<b><u>Stiebel Eltron</u></b>			
72	PTFS-S Paper towel dispenser plugged	No	8.00
73	SDSS Soap dispenser plugged	No	8.00
<b><u>SUNDRIES</u></b>			
74	38mm Diameter rubber door stop plugged	No	27.00
<b><u>WELDED SCREENS, GATES, ETC</u></b>			
75	Single gate 900 x 1615mm high formed of 50 x 50 x 2.5mm square tubing outer frame, with 30 x 30 x 2mm diagonal square tubing bars welded at 100mm centres maximum, complete with bullet hinges welded on, and locking mechanism suitable for and including padlock.	No	27.00
<b><u>APPROVED STEEL DOORS, ETC</u></b>			
<b><u>0.88mm Zinc coated Combi standard steel door</u></b>			
76	Door size 900 x 2100mm high	No	27.00
<b><u>DOOR FRAMES, INCLUDING BUILDING INTO BRICKWORK</u></b>			
<b>Carried Forward</b>			R
Section No. 1 Bill No. 4 4 BLOCKS ENVIRO LOO 6 TOILETS <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

Brought Forward			R
	<b><u>1,2mm Double rebated Zinc coated (Galvanised) standard steel door frames suitable for one brick walls with Padlatch</u></b>		
77	Frame for door 900 x 2100mm high	No	27.00
	<b><u>STEEL WINDOWS, DOORS, ETC</u></b>		
	<b><u>Standard residential windows complete with furniture and 15 x15mm solid mild steel horizontal bars at equal spacing welded to inside of openable section</u></b>		
78	Window type NE1, 533 x 654mm high	No	35.20
	<b><u>EXTERNAL PLASTER</u></b>		
	<b><u>Cement plaster on brickwork</u></b>		
79	On walls	m2	79.20
	<b><u>INTERNAL PLASTER</u></b>		
	<b><u>Cement plaster on brickwork</u></b>		
80	On walls	m2	470.80
	<b><u>GRANOLITHIC</u></b>		
	<b><u>Untinted granolithic floor finish on concrete</u></b>		
81	40mm Thick on floors and landings	m2	154.00
82	75mm High coved skirtings	m	180.40
	<b><u>PLUMBING AND DRAINAGE</u></b>		
	<b><u>SANITARY FITTINGS (PROVISIONAL)</u></b>		
83	450 x 290mm "Bantam" cloakroom hand basin complete with single punched tapholes fixed to wall with and including two number 10mm bolts	No	17.60
	<b><u>WASTE UNIONS, ETC</u></b>		
84	32mm "301CP" Basin waste union	No	17.60
	<b><u>TRAPS, ETC</u></b>		
	Carried Forward		
	R		
	Section No. 1 Bill No. 4 4 BLOCKS ENVIRO LOO 6 TOILETS <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>		

Brought Forward			R
	<b><u>Marley</u></b>		
85	32 x 50mm Deep seal "P" or "S" trap	No	17.60
	<b><u>SANITARY PLUMBING</u></b>		
	<b><u>uPVC pipes</u></b>		
86	50mm Pipes	m	176.00
	<b><u>Extra over uPVC pipes for fittings</u></b>		
87	50mm Bend	No	18.00
88	50 mm Junction	No	22.00
89	50mm Access junction	No	18.00
90	50mm Access bend	No	18.00
91	50mm Access reducing junction	m	18.00
92	50mm "GI Two-way" vent valve	No	18.00
	<b><u>WATER SUPPLY</u></b>		
	<b><u>Class 0 copper pipes</u></b>		
93	15 mm Pipes	m	154.00
94	15mm Pipes chased in walls	m	198.00
95	22mm Pipes	m	154.00
	<b><u>Extra over class 0 copper pipes for capillary fittings</u></b>		
96	15mm Fittings	No	27.00
97	22mm Fittings	No	27.00
	<b><u>Copper overflow and service pipes</u></b>		
98	15mm Service pipe 350mm girth	No	27.00
	<b>Carried Forward</b>		R
Section No. 1 Bill No. 4 4 BLOCKS ENVIRO LOO 6 TOILETS <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

Brought Forward

R

**TESTING**

99	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
----	---	--	--	------

**FIRE APPLIANCES ETC**

**Chubb**

100	4,5kg Carbon dioxide fire extinguisher	No		18.00
-----	--	----	--	-------

**Enviroloo Unit**

101	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		27.00
-----	--	----	--	-------

**5mm Clear float glass**

**GLAZING TO STEEL WITH PUTTY**

102	Panes not exceeding 0.1m2.	m2		18.00
-----	----------------------------	----	--	-------

**PAINTWORK, ETC**

**On Floated Plaster**

**One coat alkali resistant primer, one undercoat and two coats eggshell enamel paint**

103	On external walls	m2		79.20
-----	-------------------	----	--	-------

**One coat alkali resistant primer, one undercoat and two coats eggshell enamel paint**

104	On internal walls	m2		470.80
-----	-------------------	----	--	--------

**ON FLOATED PLASTER**

**ON FIBRE CEMENT**

Carried Forward

R

Section No. 1  
 Bill No. 4  
 4 BLOCKS ENVIRO LOO 6 TOILETS  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward			R
<b><u>One coat primer, one coat universal undercoat and two coats "Plascon Velvaglo Polyurethane Enamel" or equal and approved paint</u></b>			
105	On ceilings	m2	189.20
106	On fascia and barge boards	m	105.60
<b><u>ON METAL</u></b>			
<b><u>Spot primer defects in pre-primed surfaces with zinc chromate primer UC 53, one universal undercoat and two coats Velvaglo or equal and approved enamel paint</u></b>			
107	On pressed steel door frames	m2	57.20
108	On windows with burglar bars (both sides measured)	m2	35.20
109	On screens, gates etc (both sides measured)	m2	70.40
<b><u>SUPERVISION OF INSTALLATION OF "ENVIROLOO"</u></b>			
<b><u>Supervision of installation of "Enviroloo"</u></b>			
110	Allow for two site visits to be made by the "enviro-loo" suppliers to assist/support the contractor in the installation of the "enviro-loo" and a final inspection to ascertain the enviro-loo has been installed correctly at which time a certificate of compliance should be issued between end-user department and enviro-loo supplier		Item
111	Profit and attendance on last		Item
<b>Carried Forward to Summary of Section No. 1</b>			R
Section No. 1			
Bill No. 4			
4 BLOCKS ENVIRO LOO 6 TOILETS			
<b>Independent Development Trust</b>			
<b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

Item No		Unit	Quantity	Rate	Amount
	<p><b><u>PROVISIONAL SUMS, BUDGETARY ALLOWANCES</u></b></p> <p><b><u>Section 3: PROVISIONAL SUMS, BUDGETARY ALLOWANCES</u></b></p> <p><b><u>SPECIALIST INSTALLATIONS</u></b></p> <p><b><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></b></p> <p><b><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></b></p> <hr/> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>General</u></b></p> <p><b><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></b></p> <p><b><u>Prime cost amounts and provisional sums exclude value added tax.</u></b></p> <p><b><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></b></p> <p><b><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></b></p> <p style="text-align: center;"><b>Carried Forward</b></p>				
	<p>Section No. 1  Bill No. 5  PROVISIONAL SUMS  Independent Development Trust  Nkomo Maboko Secondary School Provisional Bill of Quantities</p>			R	

Brought Forward

R

Profit

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. 1

Bill No. 5

PROVISIONAL SUMS

Independent Development Trust

Nkomo Maboko Secondary School Provisional Bill of Quantities

Brought Forward

R

**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**

**SPECIALIST INSTALLATIONS**

1	Provide the sum of R 100 000,00 for signage and Telecommunications	Item	100,000.00
2	Allow for Profit on above item	Item	
3	Allow for Attendance on above item	Item	
4	Provide the sum of R 1 400 000,00 for Classroom Furniture To be Provided by Domestic Subcontracting - Secondary Table including chair combos, Teachers Desks and chairs, Steel Filling Cabinet- lockable etc	Item	1,400,000.00
5	Allow for Profit on above item	Item	
6	Allow for Attendance on above item	Item	
7	Provide the sum of R 500 000,00 for Admin Furniture To be Provided by Domestic Subcontracting - Desks and chairs, Steel Filling Cabinet- lockable, Boardroom table and chairs, Sick bay beds including mattress etc.	Item	500,000.00
8	Allow for Profit on above item	Item	
9	Allow for Attendance on above item	Item	
10	Provide the sum of R 350 000,00 for supply and install of a new borehole including a Geohydrologist (Test water quality, yield, etc)	Item	350,000.00
11	Allow for Profit on above item	Item	
12	Allow for Attendance on above item	Item	
13	Provide the sum of R 2 085 780.03 for New Electrical Installation by a Domestic subcontracting.	Item	2,085,780.03
14	Allow for Profit on above item	Item	

Carried Forward

R

Section No. 1

Bill No. 5

PROVISIONAL SUMS

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

**Brought Forward**

R

15 Allow for Attendance on above item

Item

**Carried Forward to Summary of Section No.  
1**

R

Section No. 1

Bill No. 5

PROVISIONAL SUMS

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Item No		Quantity	Rate	Amount
	<p><b><u>Section 4: External Works</u></b></p> <p><b><u>HAULAGE</u></b></p> <p><u>Reference to haulage in SABS Specification 1200 shall not apply. All movement of material shall be regarded as free haul.</u></p> <p><b><u>MEASUREMENT AND PAYMENT</u></b></p> <p><u>Clause B relating to "Measurement and Payment" of SABS Specification 1200 shall not apply.</u></p> <p><b><u>PRECAST CONCRETE KERBS</u></b></p> <p><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></p> <p><b><u>KERBS, ETC.</u></b></p> <p><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></p> <p><b><u>MAINTENANCE OF ROADWORKS</u></b></p> <p><u>Maintenance period for civil works such as roads, parking and related earthworks shall be three (3) calendar months.</u></p> <p><b><u>Bill No 1 PIPE TRENCHES FOR WATER AND SEWER SERVICES</u></b></p> <p><b><u>Site clearance (SABS 1200 C)</u></b></p>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	21,000.00	
	<b>Carried Forward</b>			R
	<p>Section No. 1  Bill No. 6  EXTERNAL WORKS  Independent Development Trust  Nkomo Maboko Secondary School Provisional Bill of Quantities</p>			

Brought Forward

R

**TRENCH EXCAVATIONS :**

2	For water lines: For depths : 0.000m to 1.5m	m	1,050.00
3	1.001m to 1.5m	m	120.00
4	1.501m to 2.0m	m	160.00
5	EXTRA OVER : Extra over 2 for : Hard rock excavation	m3	100.00
6	EXISTING SERVICES THAT INTERSECT OR ADJOIN A PIPE TRENCH : Excavate by hand to expose services as directed	m3	25.00
7	Bill No 2 WATER MAINS RETICULATION PIPEWORK : Supply, handle, lay, joint, supply bedding & fill blanket class B, test and disinfect pipes with one coupling per pipe : class 12 uPVC, compliance with SANS 966 63mm dia	m	300.00
8	110mm dia	m	740.00

**SPECIALS & FITTINGS :**

**Extra over 8.2.1 for the supply, laying  
and bedding of specials complete with couplings  
Supply, lay, supply bed for class B joint, including  
cut pipes to lengths required, test and disinfect**

9	BENDS : Plain ended uPVC class 12 110mm x 22.5 deg	No	4.00
10	110mm x 90 deg	No	10.00
11	TEES : Plain ended for uPVC pipe : 110 x 110	No	5.00

Carried Forward

R

Section No. 1

Bill No. 6

EXTERNAL WORKS

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

<b>Brought Forward</b>			R
12	VALVES : Extra over 2.1 for the supplying, fixing and bedding of valves Supply, install on concrete support, joint, including cut pipes where necessary, test, cap top Resilient seal valve, anti clockwise closing, waterworks double flanged, non-rising spindle, class 16 110 mm SOCKETED	No	10.00
13	FIRE HYDRANTS : TEES : Plain ended for uPVC pipe : 110 mm	No	4.00
14	END CAPS : For uPVC pipe : 110 mm	No	5.00
15	ANCHOR / THRUST BLOCKS : Concrete class 20 MPa	m3	7.00
16	ANCILLARIES : Valve chambers (cast iron type 10A to SABS 558-1973)	No	10.00
17	Supply concrete markers marked V for valves	No	10.00
18	Supply and erect 10 x 10 000 litres tank (JoJo or similar) on 9m high including foundations and booster pump (20m)	Item	500,000.00
<b><u>Bill No 3 SEWER MAINS RETICULATION</u></b>			
19	PIPEWORK : Supply, bed, lay, joint, supply bedding class B and fill blanket, test pipes with joints, Maincore pipe 110 mm dia, flexible joints	m	300.00
20	MANHOLES : Complete with heavy duty concrete type cover with metal lip ring and frame - precast or cast in situ For depths over and up to : 0.001m to 1.5m dia 1.0m	No	20.00
21	1.501m to 2.0m dia 1.0m	No	10.00
22	3.001m to 3.5m dia 1.50m	No	1.00
<b>Carried Forward</b>			R
Section No. 1 Bill No. 6 EXTERNAL WORKS <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

Brought Forward

R

**BILL 4 : CABLE DUCTS UNDER PAVED ROADS**

23	EXCAVATIONS : Excavate in all materials for trenches, backfill & compact to 95% mod AASHTO over pipes, including disposal of surplus material. 100mm dia to 150mm dia pipes, 2 pipes per trench For depths over 1.0m to 1.5m Soft excavation	m3	20.00
24	Hard rock excavation (provisional)	m3	5.00

**PIPE DUCTS :**  
**Supply and lay ducts complete with end caps**

25	160 mm dia uPVC Class 4	m	40.00
26	Handle and lay ducts with pipe material supplied by Telkom	m	40.00
27	Install kerb marks complete	No	5.00

**Bill 5 : STORMWATER DRAINAGE**

28	REMOVAL OF TOPSOIL : Remove topsoil to a depth of 75mm to stockpile	m3	29.00
29	EXCAVATIONS : Excavate in all materials for trenches, backfill & compact to 93% mod AASHTO over pipes, and dispose of surplus material. For pipe size 450mm	m3	340.00
30	Excavate in all materials for open stormwater channels, compact to 93% mod AASHTO, including disposal of surplus material.	m3	30.00
31	For varies widths of open channels and other cut-off drains	m3	50.00
32	Extra over all excavations for hard rock and disposal (provisional)	m3	20.00
33	Construct 300m <sup>3</sup> pond complete including headwalls and overflow structure	No	1.00

Carried Forward

R

Section No. 1

Bill No. 6

EXTERNAL WORKS

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

<b>Brought Forward</b>			R
34	PIPES : Supply, handle, lay, supply bedding Class B and fill blanket concrete pipe class 50D 450 mm dia	m	170.00
35	WINGWALLS / HEADWALLS : Construct complete with invert slab as per typical drawing 1 x 450 mm dia pipes	No	1.00
36	MANHOLES AND GRID INLET : Construct manholes grid inlet with heavy duty steel grid 2x520 mm x 790 mm frames for depths 1.0m to 2m	No	12.00
37	Construct 3m long catch pit complete as per typical drawing for depths 0.000m to 1.500m	No	2.00
38	Junction Box with medium duty cover as per typical drawing	No	2.00
39	Construct silt trap as per typical drawing	No	1.00
40	CHANNEL LINING : Minor channels : Supply and lay 20 MPa concrete for stormwater channel 100mm thick	m2	15.00
<b><u>Bill 6 : BULK EARTHWORKS &amp; PARKING AREA</u></b>			
41	EARTHWORKS : SITE CLEARANCE : Clear and grub all road reserves and access courts	m2	113.00
42	TREATMENT OF ROAD-BED : In situ material rip and compact : To minimum of 93% mod. AASHTO density for internal roads and parking area	m3	1,200.00
43	BORROW TO FILL : Compact to minimum of 93% mod. AASHTO density (G5 material)	m3	2,400.00
44	CUT TO SPOIL FROM : Soft excavation	m3	1,500.00
<b>Carried Forward</b>			R
Section No. 1 Bill No. 6 EXTERNAL WORKS <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

<b>Brought Forward</b>			R
45	PAVING : Construct 80mm interlocking paving including 25mm sand	m2	1,200.00
46	Construct 60mm interlocking paving including 25mm sand	m2	6,000.00
47	CONCRETE KERBING : Supply, handle and lay concrete kerbing SABS figure 7 cast in situ or precast : straight & curved incl.	m	1,600.00
48	SABS figure 8C cast in situ or precast : straight & curved incl.	m	100.00
49	SABS figure 11 cast in situ or precast : straight & curved incl.	m	80.00
50	SURFACE FINISHES : Topsoiling for 2m along all paved walkways and buildings	m2	3,200.00
51	ANCILLARY ROADWORKS : PERMANENT TRAFFIC SIGNS : Sign faces with painted background. Symbols, characters, legend and borders in engineering grade retro-reflective material with signboards constructed from 1.6 mm thick aluminium plate, all sizes	m2	15.00
52	Steel poles for sign supports	t	3.000
53	Excavation for sign supports, backfilling with 20 MPa concrete	m3	4.00
54	ROAD MARKING : reflectorized paint applied at nominal rate of 0.42 l/m2 White characters and symbols	m2	50.00
55	100mm broken white lines	m	140.00
56	200mm white lines	m	130.00
<b>Carried Forward</b>			R
Section No. 1 Bill No. 6 <b>EXTERNAL WORKS</b> <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

		Brought Forward	R
<b><u>Bill 7 : FENCING</u></b>			
57	Fencing barrier 2 100mm high, comprising steel palisade fence concrete pipe posts, intermediates, stays, gates, etc.	m 1,200.00	
58	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 5.00	
59	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	
60	Extra over fencing barrier for stopped end	No 2.00	
61	Extra over fencing barrier for angle	No 8.00	
<b><u>Bill 8 : RAINWATER HARVESTING and CARPORTS</u></b>			
62	Supply 3 000l JOJO tanks to be placed on precast concrete plinths and connected to the various buildings rainwater system.	No 8.00	
63	Allowance for drinking fountains		SUM
64	Supply and install complete 5m high steel tank stand for 10 000 Litres prefabricated tank (elsewhere) including 10 000 Litre Jojo Tanks	No 3	
<b><u>CARPORTS - 8 Covered Bays</u></b>			
<b><u>EXCAVATION, FILLING, ETC, OTHER THAN BULK</u></b>			
<b><u>Excavation in earth not exceeding 2m deep:</u></b>			
65	Holes and spoil over site.	m3 6.00	
<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
<b><u>25MPa/19mm Concrete</u></b>			
66	400 x 400 x 500mm Deep concrete column base, including all necessary formwork, etc.	No 11.00	
<b><u>STEEL COLUMNS AND BEAMS</u></b>			
		Carried Forward	R
Section No. 1			
Bill No. 6			
EXTERNAL WORKS			
<b>Independent Development Trust</b>			
<b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

Brought Forward			R
<b><u>Welded columns in single lengths with flat section base, top, bearer and connection plates:</u></b>			
67	75 x 75 x 3mm Thick square hollow section columns.	t	1.000
<b><u>Bolts:</u></b>			
68	M16 Threaded rod, nut and washer 300mm long cast 250mm deep into top of concrete base (elsewhere measured).	No	43.00
<b><u>STEEL TRUSSES, ETC.</u></b>			
<b><u>Welded portal frames with flat section bearer, gusset and connection plates and L-section cleats welded to columns (elsewhere measured):</u></b>			
69	Double pitched portal frames of 75 x 75 x 3mm thick square hollow section, the truss 2.425 x 1.107m high extreme.	t	2.000
<b><u>PURLINS, GIRTS, BRACING, ETC</u></b>			
<b><u>Purlins and girts bolted to steel:</u></b>			
70	50 x 50 x 3mm Square hollow section middle support.	t	1.000
<b><u>RIBBED METAL SHEETING AND ACCESSORIES</u></b> <b><u>"Kliplok 406" 0,58mm thick Z275 spelter galvanized steel sheeting with Chromadek finish fixed to steel purlins or rails at 500mm centres:</u></b>			
71	Roof covering with pitch not exceeding 25 degrees, in transportable lengths not exceeding 20m.	m2	288.00
<b><u>PAINTING</u></b> <b><u>Prepare, remove all dust, grease, salts and contamination with cleaner for galvanized iron, rinse and apply one coat primer for galvanized iron, apply one coat universal undercoat and two coats high gloss alkyd enamel paint on galvanized steel:</u></b>			
72	On bars, pipes, rails, etc., not exceeding 300mm girth.	m	722.00
<b><u>BILL No 9 : SEWER TREATMENT PLANT</u></b>			
<b><u>NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill</u></b>			

Carried Forward

R

Section No. 1

Bill No. 6

EXTERNAL WORKS

Independent Development Trust

Nkomo Maboko Secondary School Provisional Bill of Quantities

Brought Forward

R

**EARTHWORKS**

**Site preparation:**

73 Rip excavated surface to a nominal depth of 150mm and compact to a minimum of 93% Mod. AASHTO maximum density. m2 4.00

**Restricted excavation in all materials and dispose to a site provided by the Contractor:**

74 Reduced levels under floors. m3 1.00

**CONCRETE**

**Strength concrete 25MPa/19mm in:**

75 Slab. m3 1.00

**Unformed surface finishes:**

76 Wood floated finish, including in confined areas. m2 4.00

**FORMWORK**

**Special off-form:**

77 Form 25 x 25mm chamfer along exposed top edges of concrete. m 14.00

**Narrow widths:**

78 Not exceeding 300mm high or wide. m 14.00

**Box out holes / Form voids:**

79 Form circular opening through concrete slab, to suit manhole cover to top of septic tank chamber No 1.00

80 Form circular opening through concrete slab, to suit manhole cover to top of 3,500 litre calcamite biological reactor plant No 1.00

81 Form circular opening through concrete slab, to suit manhole cover to top of pumping chamber / chlorinator No 1.00

**REINFORCEMENT**

Carried Forward

R

Section No. 1

Bill No. 6

EXTERNAL WORKS

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward			R
<b><u>High tensile welded mesh:</u></b>			
82	Type reference 395 to concrete slab.	m2	4.00
<b><u>BRICKWORK</u></b>			
<b><u>Brickwork in superstructure:</u></b>			
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u></b>			
83	One brick (230mm) wall in bund wall	m2	6.00
<b><u>Brickwork reinforcement:</u></b>			
84	150mm Wide reinforcement built in horizontally.	m	24.00
<b><u>Face brickwork:</u></b>			
<b><u>Facings in approved face bricks (FBS) with a PC Amount of R4,500.00 per thousand bricks delivered to site (excluding VAT) pointed with square recessed horizontal and vertical joints</u></b>			
85	Extra over brickwork for face brickwork, pointed with solid concave joints to all horizontal and vertical joints.	m2	11.00
86	230mm Wide brick-on-edge header course copings, pointed with solid concave joints on all exposed faces, to top of one brick wall.	m	12.00
<b><u>SEWERS</u></b>			
<b><u>Manholes:</u></b>			
87	SABS 558 Type 4 medium duty manhole cover and frame, cast in position to top of concrete slab (elsewhere measured).	No	3.00
Carried Forward			R
Section No. 1 Bill No. 6 EXTERNAL WORKS <b>Independent Development Trust</b> <b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>			

Brought Forward

R

**Septic tank complete with covers and frames, etc.:**

88	Calcamite Bio-Mite Domestic sewer treatment plant installed strictly in accordance with the Manufacturer's instructions. Plant requires excavated hole size 5m long x 2m wide x 2m deep overall, and comprises septic tank chamber, inlets for 2 No x 110mm diameter and outlet for 1 No x 50mm diameter uPVC pipes (pipes elsewhere measured), 3,500 litre calcamite biological reactor plant, pumping chamber / chlorinator, blower, all associated electrical supply, excavations, bedding and compacting with selected imported material, mixing in and stabilizing with 5% Ordinary Portland Cement where necessary, backfilling and compacting with selected excavated material to 93% Mod. AASHTO maximum density, carting away of surplus excavated material, etc., complete.	No	1.00
----	---	----	------

**FRENCH DRAIN**

**NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (00G-001E) before pricing this bill**

**EARTHWORKS (PIPE TRENCHES)**

**Excavate in all materials for trenches and use for backfill, compact and dispose of surplus material:**

89	Depth exceeding 1m and not exceeding 2m deep.	m3	14.00
----	---	----	-------

**Extra over pipe trench excavations for:**

90	Intermediate excavation	m3	4.00
91	Hard rock excavation	m3	2.00

**GABIONS AND PITCHING**

**Geotextile (or geomembrane):**

92	Supply and install Bidum U24 filter grade geofabric, as lining to subsoil drain, including 300mm overlap at top, etc., complete.	m2	42.00
----	--	----	-------

**BEDDING (PIPES)**

Carried Forward

R

Section No. 1

Bill No. 6

EXTERNAL WORKS

**Independent Development Trust**

**Nkomo Maboko Secondary School Provisional Bill of Quantities**

Brought Forward

R

**Provision of bedding from commercial sources:**

93	Selected crushed stone material with aggregate size 25 to 50mm nominal diameter.	m3	8.00
94	Selected fill material.	m3	8.00

**SEWERS**

**Supply, handle and lay uPVC slotted, flexible sewer and waste piping, including joints, fittings, etc.:**

95	110mm Diameter pipe.	m	20.00
----	----------------------	---	-------

**Extra over for the supplying, laying and bedding of specials, complete with couplings:**

96	Extra over 110mm diameter uPVC slotted pipe for 45 degree bend.	No	2.00
97	Extra over 110mm diameter uPVC slotted pipe for rodding eye, cast in and including mass concrete haunching / anchor block.	No	2.00

**Manholes:**

**Precast concrete manhole size 900mm diameter internally, complete with concrete slab over, step irons, concrete benching and base, excavations, backfilling, carting away of surplus excavated material, etc., SABS 558 Type 4 medium duty manhole cover and frame:**

98	Manhole with inlets for 2 No x 110mm diameter uPVC pipes (pipes elsewhere measured), depth to invert not exceeding 1m.	No	1.00
99	Manhole with inlets for 3 No x 110mm diameter uPVC pipes (pipes elsewhere measured), depth to invert not exceeding 1m.	No	1.00

**Inspection Chambers:**

Carried Forward

R

Section No. 1

Bill No. 6

EXTERNAL WORKS

Independent Development Trust

Nkomo Maboko Secondary School Provisional Bill of Quantities

**Brought Forward**

R

**Brick inspection chamber comprising 3 separate compartments, size 5460 x 1000mm overall internally, complete with concrete slab over, step irons, concrete benching and base, mesh ref. 395 reinforcing, excavations, backfilling, carting away of surplus excavated material, crushed stone and bidum U24 lining, etc., SABS 558 Type 4 medium duty manhole cover and frame:**

100	Inspection chamber with inlets for 2 No x 110mm diameter uPVC pipes (pipes elsewhere measured), depth to invert not exceeding 1m.	No	1.00
-----	---	----	------

**Landscaping**

101	Provide the sum of R 600 000.00 for Landscaping including marking of the soccer field. Construction of a netball court.		SUM
-----	---	--	-----

**Carried Forward to Summary of Section No. 1**

R

Section No. 1  
 Bill No. 6  
 EXTERNAL WORKS  
**Independent Development Trust**  
**Nkomo Maboko Secondary School Provisional Bill of Quantities**

**SECTION SUMMARY - Nkomo Maboko Secondary School Provisional Bill of**

Bill No		Page No	Amount
1	Preliminary And General	59	
2	3 x 4 BLOCK CLASSROOMS	80	
3	ADMIN BUILDING	100	
4	4 BLOCKS ENVIRO LOO 6 TOILETS	112	
5	PROVISIONAL SUMS	116	
6	EXTERNAL WORKS	129	
	SUB - TOTAL		R
	Allow for 5% for unforeseen contingency requirement on site. This amount is to be expanded in part or in whole, only upon written instruction from Representative/Agent (Excluding Provisional Sums)	%	
	Sub Total		R
	Escalation	%	
	Sub Total		R
	Tax		R
	Total Tender Amount (including VAT) Carried Forward to C1,1 Form of Offer and Acceptance		R
	<b>Carried to Final Summary</b>		R
	Section No. 1		
	<b>Independent Development Trust</b>		
	<b>Nkomo Maboko Secondary School Provisional Bill of Quantities</b>		

**FINAL SUMMARY**

**Section  
No**

**Page  
No**

**Amount**

1 Nkomo Maboko Secondary School Provisional Bill of  
Quantities

130

**Carried to Form of Tender**

R

**Independent Development Trust  
Nkomo Maboko Secondary School Provisional Bill of Quantities**