

ZIWUNDWANA JUNIOR SECONDARY SCHOOL

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6. The Tenderers shall allow opposite each of the clauses whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out herein. Only priced items will be considered in respect of any adjustment of this Section. Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.

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

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

9. If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries, each item priced is to be allocated to one or more of the three categories by insertion of "F", "V", "T" as the case may be against the price in the "rate" column immediately preceding the "amount" column, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value, and "T" denotes an amount proportionate to time.

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PRELIMINARIES AND GENERAL
Bill No. 1
PRELIMINARIES AND GENERAL

SECTION A: PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

Definitions and interpretation (Clause 1).

1 F: V: T:

Item

OBJECTIVE AND PREPARATION

Offer, acceptance and performance (Clause 2).

2 F: V: T:

Item

Documents (Clause 3).

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

Clause 3.3 is deleted and substituted with:

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

3 F: V: T:

Item

Design responsibility (Clause 4).

4 F: V: T:

Item

Employer's agents (Clause 5).

5 F: V: T:

Item

Site representative (Clause 6).

6 F: V: T:

Item

Compliance with regulations (Clause 7).

7 F: V: T:

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	Contract instructions (Clause 17).			
17	F: V: T: Setting out of the works (Clause 18.3). The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc., exist in order that the necessary arrangements may be made for the rectification of any such encroachments. Should incorrect information be given to the contractor in terms of 18.1 and 18.2, which causes the incorrect setting out of the works, the contractor shall not be liable for such incorrect setting out.	Item		
18	F: V: T: Assignment (Clause 19).	Item		
19	F: V: T: Nominated subcontractors (Clause 20).	Item		
20	F: V: T: Selected subcontractors (Clause 21).	Item		
21	F: V: T: Employer's Direct contractors (Clause 22).	Item		
22	F: V: T: Contractor's Domestic subcontractors (Clause 23).	Item		
23	F: V: T: <u>COMPLETION</u> Practical completion (Clause 24).	Item		
24	F: V: T: Works completion (Clause 25).	Item		
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25	F: V: T: Final completion (Clause 26). Latent defects liability period (Clause 27). Clause 27.0 is amended by the addition of the following clauses: "27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations". "27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accumulates in order to attend to a comprehensive list of defects"	Item		
26	F: V: T: Sectional completion (Clause 28).	Item		
27	F: V: T: Revision of date for practical completion (Clause 29).	Item		
28	F: V: T: Penalty for non-completion (Clause 30).	Item		
29	F: V: T: <u>PAYMENT</u> Interim payment to the contractor (Clause 31). The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.3 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank.	Item		
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Where prices are submitted by the contractor or nominated/selected sub 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 payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing.

Adjustment to the contract value (Clause 32).

30 F: V: T:

Item

Recovery of expense and loss (Clause 33).

31 F: V: T:

Item

Final account and final payment (Clause 34).

32 F: V: T:

Item

Payment to other parties (Clause 35).

33 F: V: T:

Item

CANCELLATION

Cancellation by Employer - Contractor's default (Clause 36).

34 F: V: T:

Item

Cancellation by Employer - Loss and damage (Clause 37).

35 F: V: T:

Item

Cancellation by Contractor - Employer's default (Clause 38).

36 F: V: T:

Item

Cancellation - Cessation of the works (Clause 39).

37 F: V: T:

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DISPUTE

Dispute Settlement (Clause 40)

38 F: V: T:

Item

SUBSTITUTE PROVISIONS

State Clauses (Clause 41)

39 F: V: T:

Item

CONTRACT VARIABLES

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

40 F: V: T:

Item

CONTRACTING AND OTHER PARTIES (Clause 42.1)

Employer: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East London

Principal Agent: Greenfield Resources

Postal Address: 142 South Street, Falcon Crest Office Park, Centurion

Telephone: 012 643 0357

Facsimile: 012 643 0357

Physical address: 142 South Street, Falcon Crest Office

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CONTRACT DETAILS (Clause 42.2)

Clause 42.2.1

Works Description: Completion of Omitted scope in this Safe Program

Clause 42.2.2

Site Description: The site is the existing school.

Clause 42.2.3

Work or Installations by Others: NIL

Clause 42.2.4

This Agreement is for a State Contract :- Yes

Payment will be made for materials and goods:- Yes

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

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

Clause 42.2.5

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

To be advised.

Clause 42.2.6

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

Completion in Sections are required : NO

Clause 42.2.7

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

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To be advised.

Penalty amount will be R2000/day.

Clause 42.2.8

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

N/A

Clause 42.2.9

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

INSURANCES (Clause 42.3)

Clause 42.3.1

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

With a deductible of : Not exceeding 5% of each and every claim.

Clause 42.3.2

Supplementary insurance is required : Yes

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

Clause 42.3.3

Public liability insurance to be effected by Contractor

For the amount of: R 5million

With a deductible of: Not exceeding 5% of each and every claim.

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DOCUMENTS (Clause 42.4)

Clause 42.4.1

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

Clause 42.4.2

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

Clause 42.4.3

Bills of Quantities drawn up in accordance with :-

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

Clause 42.4.4

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

Clause 42.4.5

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

Clause 42.4.6

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

SECTION B: PRELIMINARIES

DEFINITIONS AND INTERPRETATION (B1)

Definitions and Interpretation (B1)

41 F: V: T:

Item

DOCUMENTS (B2)

Checking of documents (B2.1)

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	Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc.			
42	F: V: T: Provisional Bills of Quantities (B2.2) YES Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, Provisional Quantities, etc., or loss of profit related thereto.	Item		
43	F: V: T: Availability of construction documentation (B2.3)	Item		
44	F: V: T: Interests of Agents (B2.4)	Item		
45	F: V: T: Priced documents (B2.5)	Item		
46	F: V: T: Tender submission (B2.6) Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.	Item		
47	F: V: T: <u>THE SITE (B3)</u> Defined works area (B3.1)	Item		
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	The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site. Workmen employed on the site are to be restricted to the immediate area of the site and access thereto. The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.			
48	F: V: T: Geotechnical investigation (B3.2) A desktop geotechnical report is available upon request.	Item		
49	F: V: T: Inspection of the Site (B3.3)	Item		
50	F: V: T: Existing premises occupied (B3.4)	Item		
51	F: V: T: Previous work - dimensional accuracy (B3.5)	Item		
52	F: V: T: Previous work - defects (B3.6)	Item		
53	F: V: T: Services - known (B3.7)	Item		
54	F: V: T: Services - unknown (B3.8)	Item		
55	F: V: T:	Item		
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TEMPORARY WORKS AND PLANT (B6)

Deposits and fees (B6.1)

66 F: V: T:

Item

Enclosure of the works (B6.2)

The contractor shall erect, maintain and remove at completion, hoardings, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others.

67 F: V: T:

Item

Advertising (B6.3)

68 F: V: T:

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	Ablution facilities (B7.5)			
	The contractor shall provide toilet facilities on site for the works in accordance with:			
	Alternative A (i.e. to be provided for by the Contractor).			
76	F: V: T:	Item		
	<u>PRIME COST AMOUNTS (B8)</u>			
	Responsibility for prime cost amounts (B8.1)			
77	F: V: T:	Item		
	<u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u>			
	General Attendance (B9.1)			
78	F: V: T:	Item		
	Special Attendance (B9.2)			
79	F: V: T:	Item		
	Commissioning - fuel, water and power (B9.3)			
80	F: V: T:	Item		
	<u>FINANCIAL ASPECTS (B10)</u>			
	Statutory taxes, duties and levies (B10.1)			
	Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT).			
81	F: V: T:	Item		
	Payment of Preliminaries (B10.2)			
82	F: V: T:	Item		
	Adjustment of Preliminaries (B10.3)			
83	F: V: T:	Item		
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SECTION C: SPECIFIC PRELIMINARIES

Section C: Specific Preliminaries:

C1. Proprietary branded products

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

94 F: V: T:

Item

C2. Trade Names, etc.

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

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

95 F: V: T:

Item

C3. Contractors responsibility

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

96 F: V: T:

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	C4. Overtime Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.			
97	F: V: T: C5. As built drawings The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records. Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.	Item		
98	F: V: T: C6. Construction Instructions Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books: a) Construction Instruction Book: Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book. Only instructions issued in such book shall be recognised. b) Daily Record Book:	Item		
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	The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.			
99	F: V: T: C7. Labour record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day.	Item		
100	F: V: T: C8. Plant record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.	Item		
101	F: V: T: C9. Encroachment During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor.	Item		
102	F: V: T: C10. Method Statement	Item		
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	C13. Location of Temporary Buildings and Temporary Services The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period. There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.			
106	F: V: T: <u>C14. Office accommodation</u> The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]	Item		
107	F: V: T: <u>C15. Storage Facilities</u>	Item		
108	The Contractor shall provide a Container for storage of materials.	Item		
109	F: V: T: C16. Removal and Making Good of Temporary Works, etc, on Completion The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.	Item		
110	F: V: T:	Item		
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The costs included herein must incorporate Community Liaison Officer (CLO).

OCCUPATIONAL HEALTH AND SAFETY

General:

1	Preparation of Contractor's site specific Health and Safety Plan.	Item
2	Submission of the Health and Safety File.	Item
3	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations.	Item
4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.	Item
5	Provision of full time Health and Safety Officer for the entire construction period.	Item
6	Induction training of personnel.	Item
7	Provision of first aid boxes.	Item
8	SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a green 80 shed net fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc	Item
9	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high.	Item

Provision for Personal Protective Equipment and Protective Clothing:

10	Reflective vests.	Item
11	Hard hats.	Item
12	Protective foot wear.	Item
13	Ear Plugs.	Item

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HEALTH AND SAFETY

OF SANITATION FACILITIES' OMITTED SCOPE
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FORMING NEW OPENINGS OR ALTERING OPENINGS IN EXISTING WALLS

Descriptions of forming new openings or altering openings in existing walls shall be deemed to include breaking out for and forming new brick, in-situ concrete or prestressed concrete lintels, including all reinforcement, formwork, turning pieces, etc.

BUILDING UP OPENINGS

Descriptions of building up existing openings where given in number shall be deemed to include preparing existing surfaces all around, brickwork properly toothed and bonded to existing, wedging up and making good on both sides as described

PAINTWORK

Where plasterwork on walls, ceilings, etc. are required to be patched or made good, prices are to include for the appropriate priming coat and one coat undercoat to receive paint finishing coats which are measured elsewhere

The contractor must protect all work not removed such as walls, floors, doors, windows, fittings, etc. from damage during the progress of the work and provide all necessary materials for doing so.

PROCEDURE OF WORK

The Representative/Agent reserves the right to direct the order in which the contract will be executed, should circumstances necessitate such action.

LOSS BY THEFT, FIRE OR OTHERWISE

The risk of loss, theft, fire, storm, riot or otherwise of the buildings to be demolished and the materials therein shall rest entirely with the contractor immediately upon the handing over of the site.

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BUILDING WORKS
Bill No. 1
ALTERATIONS

WATER AND OTHER PIPING

Any water supply or other piping that may be met with and found necessary to disconnect or cut are to be effectually stopped off or grubbed up and removed and any new connections that may be necessary and are to be made with proper fittings

ELECTRICAL AND OTHER SERVICES

Special care is to be exercised not to unnecessarily interfere with any electric light, bell, power, telephone or other wires and fittings that may be met with and due notice must be given to the Architect.

The contractor must protect all work not removed such as walls, floors, doors, windows, fittings, etc. from damage during the progress of the work and provide all necessary materials for doing so.

OCCUPATION OF EXISTING BUILDINGS

Tenderers are advised that the existing buildings will be in occupation during the building operations and due allowance must be made for the work being carried out in such a manner as will least interfere with the general routine of the occupants.

NOISE PREVENTION

The contractor shall take special care to minimise noisy operations during business hours. Such measures will include, inter alia, the use of silent compressors and strict control of workmen.

The contractor shall demolish the portions of existing structures or buildings with a minimum amount of damage to adjoining buildings, materials, pavings, etc. Any damage caused is to be made good at his own expense with materials to match the existing.

ALTERATIONS TO OPENINGS

Where the Contractor is required to form openings, alter openings or brick up openings in existing walls all brickwork shall be made good at jambs including properly bonding to existing. Brickwork in bricking up openings shall be wedged and pinned up

Carried to Collection

R

BUILDING WORKS
Bill No. 1
ALTERATIONS

CONSTRUCTION OF SANITATION FACILITIES' OMITTED SCOPE
TMT-DBE-23/24-SAFEOS-ECCL30-2
ZIWUNDWANA JUNIOR SECONDARY SCHOOL

MAKING GOOD, ETC

Prices are to include for making good in all trades to existing work, where damaged or disturbed through alterations, with all necessary new materials to match existing and leave complete and perfect in every respect.

REMOVAL OF EXISTING WORK

Existing pit toilets

1	Remove existing VIP 200 sit	No	3	
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Breaking out and removing existing walkways

2	Concrete 50mm thick layer	m2	93	
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REPAIR WORKS TO EXISTING

Repair work to existing concrete walkways

3	80mm thick floor screed to existing walkways	m2	186	
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SUNDRIES

4	Clean out pit latrine by desludging including removal of all debris and waste including soild waste as per Health and Safety requirements and make good on completion including disposing of all debris and waste at an authorised municipal waste disposal facility. Contractor to price per seat	No	12	
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Temporary toilet structures

5	Allow for hire of temporary toilets for the learners and staff (2 Staff, 4 Female, 4 Male)		Item	
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Carried to Collection

R

BUILDING WORKS
 Bill No. 1
 ALTERATIONS

CONSTRUCTION OF SANITATION FACILITIES' OMITTED SCOPE

TMT-DBE-23/24-SAFEOS-ECCL30-2

ZIWUNDWANA JUNIOR SECONDARY SCHOOL

Section No. 2

Bill No. 1

ALTERATIONS

COLLECTION

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 BUILDING WORKS
 Bill No. 1
 ALTERATIONS

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BUILDING WORKS
Bill No. 2
IRONMONGERY

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OF SANITATION FACILITIES' OMITTED SCOPE
TMT-DBE-23/24-SAFEOS-ECCL30-2
ZIWUNDWANA JUNIOR SECONDARY SCHOOL

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CONSTRUCTION OF SANITATION FACILITIES' OMITTED SCOPE
TMT-DBE-23/24-SAFEOS-ECCL30-2
ZIWUNDWANA JUNIOR SECONDARY SCHOOL

PAINTWORK ETC TO NEW WORK

ON METAL SURFACES

**One coat alkyd based zinc phosphate primer and
two coats premium quality polyurethane enamel
paint, on steel**

1	To steel balustrades (both sides measured)	m2	92	
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Carried to Collection

R

BUILDING WORKS
Bill No. 5
PAINTWORK

CONSTRUCTION OF SANITATION FACILITIES' OMITTED SCOPE

TMT-DBE-23/24-SAFEOS-ECCL30-2

ZIWUNDWANA JUNIOR SECONDARY SCHOOL

Section No. 2

Bill No. 5

PAINTWORK

COLLECTION

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BUILDING WORKS

Bill No. 5

PAINTWORK

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OF SANITATION FACILITIES' OMITTED SCOPE
TMT-DBE-23/24-SAFEOS-ECCL30-2
ZIWUNDWANA JUNIOR SECONDARY SCHOOL

SECTION SUMMARY - BUILDING WORKS			Page No	Amount
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BUILDING WORKS				

ZIWUNDWANA JUNIOR SECONDARY SCHOOL

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CONSTRUCTION OF SANITATION FACILITIES' OMITTED SCOPE
TMT-DBE-23/24-SAFEOS-ECCL30-2
ZIWUNDWANA JUNIOR SECONDARY SCHOOL

	<u>Selected earth supplied by the Contractor including haulage (material to comply with $P_i < 10 \text{ GM} = 1.2$)</u>				
7	Over site of Selected Subgrade G7 material in accordance with SABS 1200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	23		
	<u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u>				
8	Under floors, etc.	m2	93		
	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>				
9	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	93		
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>25 Mpa/19mm Concrete</u>				
10	Walkway	m3	9		
	<u>Reinforcement (Provisional)</u>				
11	REF. 395 fabric reinforcement in concrete infill, strip footings.	m2	93		
	<u>Test blocks:</u>				
12	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	2		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>				
13	12mm Joints not exceeding 300mm high.	m	21		
	Carried to Collection			R	
	EXTERNAL WORKS				
	Bill No. 1				
	EXTERNAL WORKS (PROVISIONAL)				

CONSTRUCTION OF SANITATION FACILITIES' OMITTED SCOPE
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ZIWUNDWANA JUNIOR SECONDARY SCHOOL

	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>		
14	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	21
	<u>Waterproofing under Surface beds</u>		
15	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	93
	<u>ONE BRICK WALL (GARDEN WALL)</u>		
	<u>EXCAVATIONS</u>		
	<u>Excavation in earth not exceeding 2m deep:</u>		
16	Trenches.	m3	75
	<u>EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER</u>		
	<u>Extra over trench and hole excavations in earth for excavation in</u>		
17	Soft rock (LI)	m3	7
18	Hard rock (LI)	m3	4
	<u>Extra over all excavations for carting away:</u>		
19	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	15
	<u>Risk of collapse of excavations:</u>		
20	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	299
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>		
21	Backfilling to trenches, holes, etc.	m3	22

Carried to Collection

R

EXTERNAL WORKS
Bill No. 1
EXTERNAL WORKS (PROVISIONAL)

ZIWUNDWANA JUNIOR SECONDARY SCHOOLR

CONSTRUCTION OF SANITATION FACILITIES' OMITTED SCOPE
TMT-DBE-23/24-SAFEOS-ECCL30-2
ZIWUNDWANA JUNIOR SECONDARY SCHOOL

	<u>"Rustgold FBS" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones</u>				
	<u>1-2:</u>				
27	One brickwall faced on both sides.	m2	125		
	<u>Brick-on-edge header course copings, sills, etc, of "Rustgold FBS" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:</u>				
28	230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	249		
	<u>Brickwork reinforcement:</u>				
29	230mm Wide reinforcement built in horizontally.	m	733		
30	Ditto but in foundations.	m	440		
	<u>RETAINING WALLS, ETC.</u>				
	<u>EXCAVATIONS</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
31	Trenches.	m3	22		
	<u>EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER</u>				
	<u>Extra over trench and hole excavations in earth for excavation in</u>				
32	Soft rock (LI)	m3	2		
33	Hard rock (LI)	m3	1		
	<u>Extra over all excavations for carting away:</u>				
34	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	22		
	Carried to Collection				
	EXTERNAL WORKS				
	Bill No. 1				
	EXTERNAL WORKS (PROVISIONAL)				

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OF SANITATION FACILITIES' OMITTED SCOPE
TMT-DBE-23/24-SAFEOS-ECCL30-2
ZIWUNDWANA JUNIOR SECONDARY SCHOOL

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CONSTRUCTION OF SANITATION FACILITIES' OMITTED SCOPE
TMT-DBE-23/24-SAFEOS-ECCL30-2
ZIWUNDWANA JUNIOR SECONDARY SCHOOL

	<u>Test blocks:</u>		
41	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes	No	2
	<u>Fabric reinforcement:</u>		
42	REF. 395 fabric reinforcement in concrete infill, strip footings.	m2	37
	<u>MASONRY</u>		
	<u>BRICKWORK IN FOUNDATIONS.</u>		
	<u>Brickwork of NFX bricks (14 Mpa nominal compressive strength) in Class I mortar:</u>		
43	One brick walls.	m2	18
	<u>BRICKWORK IN SUPERSTRUCTURE</u>		
	<u>FACE BRICK</u>		
	<u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2:</u>		
44	One brickwall faced on both sides.	m2	30
	<u>Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal Architect approved clay face brick size 222 x 106 x 73mm, pointed with recessed joints on all exposed faces:</u>		
45	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	61
	<u>Brickwork reinforcement:</u>		
46	230mm wide reinforcement built in horizontally.	m	179
47	Ditto but in foundations.	m	107
	Carried to Collection		
	EXTERNAL WORKS		
	Bill No. 1		
	EXTERNAL WORKS (PROVISIONAL)		

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CONSTRUCTION OF SANITATION FACILITIES' OMITTED SCOPE
TMT-DBE-23/24-SAFEOS-ECCL30-2
ZIWUNDWANA JUNIOR SECONDARY SCHOOL

STORMWATER APRONS

EXCAVATIONS

Excavation in earth not exceeding 2m deep

48	In Aprons	m3	24		
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Extra over all excavations for carting away:

49	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	24		
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Filling supplied by the contractor under concrete pavement, etc

50	G7 Base course material compacted to 98% Mod AASHTO density	m3	15		
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Coarse river sand filling supplied by the contractor:

51	Under floors etc.	m3	5		
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Compaction of surfaces:

52	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	97		
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Reinforced 25Mpa/19mm Concrete:

53	Surface beds cast in panels on waterproofing.	m3	8		
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Finishing top surfaces of concrete smooth with a wood float:

54	Surface beds, slabs, etc to falls and currents.	m2	97		
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Test blocks:

55	Making and testing set of three 150x150x150mm concrete strength test cubes.	No	1		
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Carried to Collection

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EXTERNAL WORKS

Bill No. 1

EXTERNAL WORKS (PROVISIONAL)

TMT-DBE-23/24-SAFEOS-ECCL30-2
ZIWUNDWANA JUNIOR SECONDARY SCHOOL

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CONSTRUCTION OF SANITATION FACILITIES' OMITTED SCOPE
TMT-DBE-23/24-SAFEOS-ECCL30-2
ZIWUNDWANA JUNIOR SECONDARY SCHOOL

	<u>Cast in-situ Ref 395 mesh reinforced concrete (25MPa)</u> <u>open stormwater channels having V-shaped waterway</u> <u>formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 1.8m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.</u>		
63	700 x 150mm V' channel 75mm deep in centre laid in position in ground in 1800mm sections including ramming, trimming, formwork, reinforcement, expansion joints, floating etc.	m	326
64	Extra for 700mm angle	No	27
	<u>SUB-SOIL DRAINAGE, ETC.</u>		
	<u>Site Clearance, ETC</u>		
65	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	140
	<u>EXCAVATIONS</u>		
	<u>Excavation in earth not exceeding 2m deep:</u>		
66	Trenches.	m3	280
	<u>EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER</u>		
	<u>Extra over trench and hole excavations in earth for excavation in</u>		
67	Soft rock (LI)	m3	28
68	Hard rock (LI)	m3	14

Carried to Collection

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EXTERNAL WORKS
Bill No. 1
EXTERNAL WORKS (PROVISIONAL)

CONSTRUCTION OF SANITATION FACILITIES' OMITTED SCOPE
TMT-DBE-23/24-SAFEOS-ECCL30-2
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	<u>Extra over all excavations for carting away:</u>		
69	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	187
	<u>Risk of collapse of excavations:</u>		
70	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	373
	<u>Filling supplied by the contractor under channels</u>		
71	G7 Base course material compacted to 98% Mod AASHTO density	m3	140
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>		
72	Backfilling to trenches, holes, etc.	m3	103
	<u>Earth filling 300 x 300mm section of 20mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density:</u>		
73	20mm Stone.	m3	25
	<u>Membrane</u>		
74	""Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2	112
	<u>Keeping excavations free of water:</u>		
75	Keeping excavations free from mud and all water including subterranean sources.		Item
	<u>Compaction of surfaces</u>		
76	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	140
Carried to Collection			
EXTERNAL WORKS			
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EXTERNAL WORKS (PROVISIONAL)			

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CONSTRUCTION OF SANITATION FACILITIES' OMITTED SCOPE
TMT-DBE-23/24-SAFEOS-ECCL30-2
ZIWUNDWANA JUNIOR SECONDARY SCHOOL

SOIL DRAINAGE

110mm Diameter slotted/perforated HDPE subsoil pipe surrounded with 300 x 300mm section of 20mm stone wrapped in A3 geotextile material.

77	110mm slotted/perforated pipe.	m	93
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Extra for:

78	110mm Tee.	No	19
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79	110mm Y junction.	No	16
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110mm Diameter solid wall HDPE subsoil pipe surrounded with 300 x 300mm section of 20mm stone wrapped in A3 geotextile material.

80	110mm solid wall HDPE pipe.	m	156
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Extra for:

81	110mm Tee.	No	26
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82	110mm Y junction.	No	26
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HEADWALLS

EXCAVATIONS

Excavation in earth not exceeding 2m deep:

83	Excavation not exceeding 2m deep	m3	44
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EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER

Extra over trench and hole excavations in earth for excavation in

84	Soft rock (LI)	m3	4
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85	Hard rock (LI)	m3	2
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Carried to Collection

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EXTERNAL WORKS

Bill No. 1

EXTERNAL WORKS (PROVISIONAL)

CONSTRUCTION OF SANITATION FACILITIES' OMITTED SCOPE
TMT-DBE-23/24-SAFEOS-ECCL30-2
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86	Risk of collapse not exceeding 1.5m deep	m2	248
87	Keeping excavations free from water		Item
88	Carting away surplus excavated material	m3	44
89	150mm layer of G7 material compacted to 95% MOD AASHTO under Concrete slab.	m3	29
90	25Mpa/19mm Reinforced concrete in bottom slabs and footings.	m3	37
91	Formwork to edges, risers, ends and reveals not exceeding 300mm wide or high.	m	310
92	Weld Mesh Ref 193 in Concrete bottom slab.	m2	98
93	One brick wall of 14 MPa NFX bricks.	m2	43
94	230mm Wide reinforcement built in horizontally.	m	222
95	Plaster on brick walls.	m2	86
96	Gabion and reno mattress (1000mm wide x 300mm deep) comprising of 20 to 30mm stones wrapped in A3 geotextile with voids filled with 1:3 cement/sand mortar.	m2	98
<u>Gates</u>			
97	Security Fence Double leafed vehicular swing gate. Size 6000mm x 1800mm high.	No	2

Carried to Collection

EXTERNAL WORKS
 Bill No. 1
 EXTERNAL WORKS (PROVISIONAL)

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CONSTRUCTION OF SANITATION FACILITIES' OMITTED SCOPE

TMT-DBE-23/24-SAFEOS-ECCL30-2

ZIWUNDWANA JUNIOR SECONDARY SCHOOL

98 Security fence single gate, size 1 200 mm wide x 1 800 mm high, formed of 50 mm diameter nominal bore x 3,25 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and cross braces mullion and transome, scribed and welded into angles and at cross intersections, with two 50 mm diameter nominal bore x 3,25 mm wall thickness security posts each 600 mm long with one end welded to top rail of gate and closure plate to other end, the gate covered with 100 x 50 x 2,5 mm weld mesh with four straining wires as before described and with four 2,37 mm four point core diameter single "kampeon" wires with crimped droppers to security posts as before described; including three strands flat wrap razor barbed tape wire fixed as before described, leaf fitted with three 24 mm diameter x 300 mm long eyebolt hinges and stops including all holes, etc., welded or bolted to adjoining galvanised gatepost with and including 500 mm long approved chain spot welded to gate

No

1

Supply and install padlocks

99 Supply 50 mm "Viro" Padlocks and Keys (or equal approved)

No

3

Carried to Collection

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EXTERNAL WORKS

Bill No. 1

EXTERNAL WORKS (PROVISIONAL)

OF SANITATION FACILITIES' OMITTED SCOPE
TMT-DBE-23/24-SAFEOS-ECCL30-2
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CONSTRUCTION OF SANITATION FACILITIES' OMITTED SCOPE
TMT-DBE-23/24-SAFEOS-ECCL30-2
ZIWUNDWANA JUNIOR SECONDARY SCHOOL

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	Allow a sum of R25 000.00 (Twenty Five Thousand Rands) for the Community Liaison Officer	Item	25 000.00
	Sub Total B		R
	Add a Contingency sum of 5%		R
	Sub Total C		R
	Add Value Added Tax @ 15% of Subtotal 'C'		R
	Carried to Cluster Summary		R