



VOLUME 2 OF 2

**POINTMENT OF PANEL OF THREE SERVICES PROVIDER TO
UNDERTAKE BRICKWORK CONTRACTS AT VARIOUS UNIVERSITY OF
VENDA BUILDINGS FOR THE PERIOD OF THREE (3) YEARS.
CIDB GRADING 3GB ONLY**

PROCUREMENT DOCUMENT

(Based on NEC3 Engineering and Construction Short Contract)

Date of Issue: 01 September 2022

Issued by:

Director Facilities Management

University of the Venda, Thohoyandou

Name of tenderer:

Telephone Number:

Email Address:

Fax Number:

Cellphone Number:

Closing date: AS PER TENDER INVITATION

BILLS OF QUANTITIES

SECTION 1:
PRELIMINARIES & GENERAL

**N1078 - BRICK
BRICKWORK AT VARIOUS BUILDINGS
AT THE UNIVERSITY OF VENDA**

Item
No

SECTION NO. 1

BILL NO. 1

PRELIMINARIES

PRELIMINARIES

- i) The NEC3 Engineering and Construction Short Contract (Second edition of June 2005 with amendments of April 2013) in conjunction with the Contract Data is taken to be incorporated herein
- ii) The tenderer is deemed to have taken cognizance of the above mentioned documents for the full intent and meaning of each clause. These clauses are referred to by clause number and heading only
- iii) The amount of Preliminaries to be included in each monthly payment certificate shall be assessed as an amount prorated to the value of the work duly executed in the same ratio as the preliminaries bears to the total of prices excluding any contingency sum and the amount for Preliminaries
- iv) Where the initial contract period is extended, the monthly charge shall be calculated on the basis as set out in (iii) but taking into account the revised period for completing the works

Quantity

Rate

Amount

Carried to Collection

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v) The amount or the items of the Preliminaries are adjusted to take account of the theoretical financial effect which changes in time or value (or both) have on this section. Such adjustments shall be based on adjustments in the following categories as recorded in the Bills of Quantities:

- a) an amount which is not varied, namely fixed
- b) an amount which is varied in proportion to the contract value, namely value related; and
- c) an amount which is varied in proportional to the construction period as compared to the initial construction period excluding revisions to the construction period for which the contractor is not entitled to adjustment in terms of the contract, namely Time Related

Where no provision is made in Bills of Quantities to indicate which of the three categories in (v) apply or where no selection is made, the adjustments shall be based on the following breakdown:

- a) 10 percent is Fixed
- b) 15 percent is Value related
- c) 75 percent is Time Related

The adjustments of the Preliminaries shall apply notwithstanding the actual employment of resources in the execution of the works. The contract value used for the adjustment of the Preliminaries shall exclude any contingency sum and the amount for Preliminaries

CONDITIONS OF CONTRACT

GENERAL

Action (clause 10)

Actions (clause 10.1)

Fixed Related

Item

Value Related

Item

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	Time Related	Item		
<u>Identified and defined terms (clause 11)</u>				
Condition of contract (clause 11.1)				
	Fixed Related	Item		
	Value Related	Item		
	Time Related	Item		
Defined terms (clause 11.2)				
	Fixed Related	Item		
	Value Related	Item		
	Time Related	Item		
<u>Law (clause 12)</u>				
Law (clause 12.1 - 12.4)				
	Fixed Related	Item		
	Value Related	Item		
	Time Related	Item		
<u>Communications (clause 13)</u>				
Communications (clause 13.1 - 13.2)				
	Fixed Related	Item		
	Value Related	Item		
	Time Related	Item		
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The Employer's authority and delegation (clause 14)

The Employer's authority and delegation (clause 14.1 - 14.4)

Fixed Related

Item

Value Related

Item

Time Related

Item

Access to the site and provision of services (clause 15)

Access to the site and provision of services (clause 15.1 - 15.2)

Fixed Related

Item

Value Related

Item

Time Related

Item

Early Warning (clause 16)

Early Warning (clause 16.1 - 16.6)

Fixed Related

Item

Value Related

Item

Time Related

Item

**THE CONTRACTOR'S MAIN
RESPONSIBILITIES**

Carried to Collection

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Providing the Works (clause 20)

Providing the Works (clause 20.1 - 20.2)

Fixed Related

Item

Value Related

Item

Time Related

Item

Subcontracting and people (clause 21)

Subcontracting and people (clause 21.1 - 21.3)

Fixed Related

Item

Value Related

Item

Time Related

Item

Access for the Employer (clause 22)

Access for the Employer (clause 22.1)

Fixed Related

Item

Value Related

Item

Time Related

Item

TIME

Starting and Completion (clause 30)

Starting date (clause 30.1)

Fixed Related

Item

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Searching for and notifying Defects (clause 40)

Searching for and notifying Defects (clause 40.1 - 40.2)

Fixed Related

Item

Value Related

Item

Time Related

Item

Correcting Defects (Clause 41)

Correcting Defects (Clause 41.1 - 41.4)

Fixed Related

Item

Value Related

Item

Time Related

Item

Uncorrected Defects (clause 42)

Uncorrected Defects (clause 42.1)

Fixed Related

Item

Value Related

Item

Time Related

Item

Carried to Collection

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Repairs (Clause 43)

Repairs (Clause 43.1)

Fixed Related

Item

Value Related

Item

Time Related

Item

PAYMENT

Assessing the amount due (clause 50)

Assessing the amount due (clause 50.1 - 50.7)

Fixed Related

Item

Value Related

Item

Time Related

Item

Payment (clause 51)

Payment (clause 51.1 - 51.2)

Fixed Related

Item

Value Related

Item

Time Related

Item

COMPENSATION EVENTS

Carried to Collection

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Compensation events (clause 60)

Compensation events (clause 60.1 - 60.2)

Fixed Related

Item

Value Related

Item

Time Related

Item

Notifying compensation events (clause 61)

Notifying compensation events (clause 61.1 - 61.5)

Fixed Related

Item

Value Related

Item

Time Related

Item

Quotation for compensation events (clause 62)

Quotation for compensation events (clause 62.1 - 62.6)

Fixed Related

Item

Value Related

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Time Related

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Assessing compensation events (clause 63)

Assessing compensation events (clause 63.1 - 63.10)

Fixed Related

Item

Value Related

Item

Time Related

Item

TITLE

Objects and materials within the site (clause 70)

Objects and materials within the site (clause 70.1 - 70.2)

Fixed Related

Item

Value Related

Item

Time Related

Item

INDEMNITY, INSURANCE AND LIABILITY

Limitation of liability (clause 80)

Limitation of liability (clause 80.1)

Fixed Related

Item

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	Fixed Related	Item	
	Value Related	Item	
	Time Related	Item	
Price-Adjustment for inflation - Based on date of Tender Submission (clause Z9)			
	Fixed Related	Item	
	Value Related	Item	
	Time Related	Item	
<u>Priced contract with bill of quantities - This contract is based on priced contract with Bills of Quantities (clause Z10)</u>			
Priced contract with bill of quantities - This contract is based on priced contract with Bills of Quantities (clause Z10.1 - Z10.5)			
	Fixed Related	Item	
	Value Related	Item	
	Time Related	Item	
Damages to existing services (clause Z11)			
	Fixed Related	Item	
	Value Related	Item	
	Time Related	Item	
Performance bond (clause Z12)			
	Fixed Related	Item	
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	Value Related	Item	
	Time Related	Item	
<u>CONTRACT DATA</u>			
Contractual Requirements as stated elsewhere in the document			
<u>ESTABLISHMENT OF FACILITIES ON THE SITE</u>			
<u>Facilities for Project Manager</u>			
Furnished offices (In no 1)			
	Fixed Related	Item	
	Value Related	Item	
	Time Related	Item	
Name boards (In no 1)			
	Fixed Related	Item	
	Value Related	Item	
	Time Related	Item	
Offices and storage sheds			
	Fixed Related	Item	
	Value Related	Item	
	Time Related	Item	
<u>Facilities for the contractor</u>			
Living accommodation			
	Fixed Related	Item	
	Value Related	Item	
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	Time Related	Item	
Ablution and latrine facilities			
	Fixed Related	Item	
	Value Related	Item	
	Time Related	Item	
Tools and Equipments			
	Fixed Related	Item	
	Value Related	Item	
	Time Related	Item	
Water supplies, electric power, communication, dealing with water and access			
	Fixed Related	Item	
	Value Related	Item	
	Time Related	Item	
Other fixed charge obligations			
	Fixed Related	Item	
	Value Related	Item	
	Time Related	Item	
Removal of site establishment			
	Fixed Related	Item	
	Value Related	Item	
	Time Related	Item	
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Occupational Health and safety

Allow for compliance to Occupational Health and safety specifications including, OHS testing of personnel before commencement and after completion of project, safety equipment and safety officer.

Fixed Related

Item

Value Related

Item

Time Related

Item

Allow for compliance with all COVID 19 Regulations and Requirements

Fixed Related

Item

Value Related

Item

Time Related

Item

Carried to Collection

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COLLECTION

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SECTION 2: ALTERATIONS

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SECTION NO.2

BILL NO. 1

ALTERATIONS

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification of material and methods to be used -
PW371"

REMOVAL OF EXISTING WORK:

Note:

NATURE OF WORK Tenderers are advised to visit the site and to satisfy themselves as to the nature and extent of the work to be done and provide in their tenders for any items not specifically mentioned which they may deem necessary for the proper completion of the work. Tenderers are advised that the adjacent existing buildings will be in occupation during the progress of the work and due allowance must be made for the work being carried out at such times and in such manner as will least interfere with the routine of the occupants and as may be directed by the Principal Agents

DIMENSIONS The Contractor is advised to take all dimensions affecting the existing buildings on the site, as he will be held solely responsible for all new work being of the correct sizes.

CLEANING OF SITE: The Contractor should allow for removing of rubble from site on daily basis, failing which the client might stop the construction until the site has been cleaned. None of the old stock bricks from the pulling down are to be re-used for any new work.

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Quantity	Rate	Amount

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PIPES, ETC. Special care is to be taken not to interfere unnecessarily with any water supply pipes or other piping that may be met with and found necessary to disconnect or cut, are to be effectively stopped off and any new connections that may be necessary are to be made with proper fittings and to the satisfaction of the Principal Agents to whom due notice must be given of any alterations to the existing services.

PROTECTION In taking down and removing existing work the utmost care is to be observed to avoid any structural or other damage to the remaining portions of the buildings. The Contractor must also protect all work not removed such as walls, floors, doors, windows or other joinery, loose and fixed fittings and electrical appliances, etc., from damage during the progress of the work and provide all necessary materials for so doing. The Contractor will be held solely responsible for any damage to persons or property and for the safety of the structure throughout the whole of this Contract and must make good at his own expense any damage that may occur.

CREDITS, ETC. Old materials from the pulling down (except such as are described to be re-used or handed over) are to become the property of the Contractor who shall allow credit as provided for in the summary at the end of these Bills of Quantities. Old materials for re-use are to be carefully removed, stored and protected from injury including making good any damaged or defective parts as required before re fixing. Old materials described to be handed over are to be carefully removed and neatly stacked on site where directed. The remainder of the old materials and all rubbish to be immediately carted away and the site left clean and unencumbered. None of the old stock bricks from the pulling down are to be re-used for any new work.

MATERIALS, ETC. The materials to be used and work to be done to be similar in all respects to that described for new work insofar as they concur. All work in making good is to be properly jointed to the existing.

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Unless otherwise stated, all materials from the alterations and demolitions will belong to the builder.

The builder should allow for the removal of all debris from site

Breaking up and removing mass concrete

1	Carefully cut through 85mm thick surface bed for a 900mm wide trenches (trench and making good (e/m))	m	78
2	1500mm x 125mm Thick stormwater channel and aprons including carting away to a dumping place to be located by the contractor	m	78
3	Concrete surface bed approximately 100mm thick including carting away to a dumping place to be located by the contractor	m2	27
4	Brick walls 255mm high above ground, including digging up concrete foundation approximately 600mm deep including carting away to a dumping place to be located by the contractor	m	21

Breaking down and removing brickwork etc

5	Half brick wall	m2	240
6	One brick wall	m2	204

Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc

7	30mm Thick screed in patches	m2	182
8	20mm Thick granolithic screeds	m2	133
9	Internal plaster from walls, columns and beams	m2	67
10	Internal plaster from ceilings	m2	10

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11	External plaster from walls, columns and beams	m2	48		
	<u>Taking out and removing doors, windows, etc from brickwork to be demolished</u>				
12	Timber single door and steel frame size 813 x 2032mm high	No	2		
13	Timber double door size 1300 x 1582mm high	No	2		
14	Timber single door and metal frame 813 x 2032mm high	No	11		
15	Timber single door and metal frame 813 x 2032mm high with 305mm high fanlight	No	18		
16	Timber double door and metal frame 1613 x 2032mm high	No	7		
	<u>Taking out and removing doors, windows, etc including thresholds, sills, etc (building up openings elsewhere)</u>				
17	Steel window size 533 x 654mm high	No	10		
18	Steel window size 600 x 600mm high	No	14		
19	Steel window size 1022 x 1245mm high	No	6		
20	Steel window size 900 x 1500mm high	No	4		
21	Timber single door and frame 813 x 2032mm high with 305mm high fanlight from half brick wall	No	3		
22	Timber single door and frame 813 x 2032mm high with 305mm high fanlight from one brick wall	No	4		
23	Timber single door and frame 813 x 2400mm high overall from one brick wall	No	2		
24	Timber single door and frame 813 x 2032mm high overall from one brick wall	No	2		
	<u>Taking out/off and removing sundry metalwork</u>				
25	Steel burglar for door size 813 x 2032mm high	No	2		
26	Steel turnstiles size approximately 1500 x 2250mm high	No	1		
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27	Steel burglar size 5300 x 3230mm high	No	1	
<u>OPENINGS THROUGH EXISTING WALLS ETC</u>				
<u>Altering openings</u>				
28	Altering opening in half brick wall where 813 x 2032mm high door with 305mm high fanlight was removed to form opening for new door and frame 900 x 2032mm high overall with 305mm high fanlight by breaking out brickwork on both sides and bottom including necessary precast concrete lintel (Material price = R60-00/m Vat excl. supplied) and making good plaster (Material price for plaster sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied) on one side and into reveals and face brickwork (Material price for bricks = R115-00/m supplied and delivered, building sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied) on other side and into reveals and with cement screed finish to threshold (new door and frame and making good paintwork elsewhere)	No	2	
29	Altering opening in half brick wall where 813 x 2032mm high door was removed to form opening for new door and frame 900 x 2032mm high overall by breaking out brickwork on both sides and bottom including necessary precast concrete lintel (Material price = R60-00/m Vat excl. supplied) and making good plaster (Material price for plaster sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied) on one side and into reveals and face brickwork (Material price for bricks = R115-00/m supplied and delivered, building sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied) on other side and into reveals and with cement screed finish to threshold (new door and frame and making good paintwork elsewhere)	No	2	
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30	<p>Altering opening in one brick wall where 813 x 2032mm high door and frame was removed to form opening for new fire door and frame 1613 x 2032mm high by breaking out brickwork on both sides and bottom including necessary precast concrete lintel (Material price = R60-00/m Vat excl. supplied) and making good plaster (Material price for plaster sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied) on both sides (new door and frame and making good paintwork elsewhere)</p>	No	2	
31	<p>Altering opening in one brick wall where 1650 x 2100mm high aluminium door and frame was removed to form opening for new door and frame 1613 x 2032mm high by breaking out brickwork on both sides and bottom including necessary precast concrete lintel (Material price = R60-00/m Vat excl. supplied) and making good plaster (Material price for plaster sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied) on both sides (new door and frame and making good paintwork elsewhere)</p>	No	2	
32	<p>Altering opening in one brick wall where 1022 x 1245mm high window was removed to form opening for new fire door and frame 1613 x 2032mm high by breaking out brickwork on both sides and bottom including necessary precast concrete lintel (Material price = R60-00/m Vat excl. supplied) and making good plaster (Material price for plaster sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied) on both sides (new door and frame and making good paintwork elsewhere)</p>	No	1	
33	<p>Altering opening in one brick wall where 533 x 654mm high steel window removed to form opening for new aluminium window 1022 x 1245mm high overall by breaking out brickwork on both sides and bottom including necessary precast concrete lintel (Material price = R60-00/m Vat excl. supplied) and making good plaster (Material price for plaster sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied) on both sides and into reveals (new window and making good paintwork elsewhere)</p>	No	5	
Carried to Collection				R
<p>Section No. 2 ALTERATIONS Bill No. 1 ALTERATIONS</p>				

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34	Altering opening in one brick wall where 1022 x 1245mm high steel window removed to form opening for new aluminium window 600 x 900mm high overall by building up brickwork on both sides and bottom including necessary precast concrete lintel (Material price = R60-00/m Vat excl. supplied) and making good plaster (Material price for plaster sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied) on both sides and into reveals (new window and making good paintwork elsewhere)	No	1		
35	Altering opening in one brick wall where 900 x 1500mm high steel window removed to form opening for new aluminium window 900 x 1500mm high overall by breaking out brickwork on both sides and bottom including necessary precast concrete lintel (Material price = R60-00/m Vat excl. supplied) and making good plaster (Material price for plaster sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied) on both sides and into reveals (new window and making good paintwork elsewhere)	No	4		
36	Altering opening in half brick wall where 813 x 2032mm high door with 305mm high fanlight was removed to form opening for new door and frame 1613 x 2032mm high overall with 305mm high fanlight by breaking out brickwork on both sides and bottom including necessary precast concrete lintel (Material price = R60-00/m Vat excl. supplied) and making good plaster (Material price for plaster sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied) on both sides and screeds in bottoms (new door and frame and making good paintwork elsewhere)	No	1		
37	Altering opening in one brick wall where 813 x 2032mm high door with 305mm high fanlight was removed to form opening for new door and frame 900 x 2032mm high overall with 305mm high fanlight by breaking out brickwork on both sides and bottom including necessary precast concrete linte (Material price = R60-00/m Vat excl. supplied) and making good plaster (Material price for plaster sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied) on both sides and screeds in bottoms (new door and frame and making good paintwork elsewhere)	No	4		
Carried to Collection					
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38	Altering opening in one brick wall where composite window size 1800 x 600mm high formed of three (3) steel windows size 600 x 600mm high overall were removed to form opening for new aluminium window size 3800 x 1000mm high overall by breaking out brickwork on both sides and bottom including necessary precast concrete lintel (Material price = R60-00/m Vat excl. supplied) and making good plaster (Material price for plaster sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied) on both sides (new window and making good paintwork elsewhere)	No	4	
39	Altering opening in one brick wall where composite window size 3000 x 600mm high formed of two (2) steel windows size 600 x 600mm high and three (3) steel louvres size 600 x 600mm overall were removed to form opening for new aluminium window size 6200 x 1000mm high overall by breaking out brickwork on both sides and bottom including necessary precast concrete lintel (Material price = R60-00/m Vat excl. supplied) and making good plaster (Material price for plaster sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied) on both sides (new window and making good paintwork elsewhere)	No	1	
<u>PREPARATORY WORK TO EXISTING SURFACES</u>				
40	Prepare, and clean external walls with high pressure water and leave surfaces free from dirt, etc.	m2	176	
<u>OPENINGS THROUGH EXISTING WALLS ETC</u>				
<u>Breaking out for and forming openings through brick walls for new doors and frames including necessary precast concrete lintels and making good plaster on both sides and into reveals and with concrete thresholds with steel trowelled finish (new doors and frames and making good paintwork elsewhere)</u>				
41	Create opening size 1810 x 2100mm high overall through one brick wall	No	1	
42	Opening for door with steel frame 900 x 2032mm high overall through half brick wall (door and frame e/m)	No	4	
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43	Opening for door with steel frame 900 x 2032mm high overall through one brick wall (door and frame e/m)	No	2		
44	Opening for door with steel frame 1613 x 2032mm high overall through one brick wall (door and frame e/m)	No	1		
<u>BUILDING UP OPENINGS</u>					
<u>Brickwork in NFP bricks in class II mortar in building up openings</u>					
45	One brick walls (Material price for bricks = R285-00/m2 supplied and delivered, building sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)	m2	3		
<u>Sundries</u>					
46	Cutting toothings and bonding new brickwork to existing	m2	9		
<u>Making good screed</u>					
47	Floors where half brick walls were removed (Material price for river sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)	m	78		
48	Floors where one brick walls were removed (Material price for river sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)	m	21		
<u>Making good internal cement plaster</u>					
49	Walls where half brick walls were removed (Material price for building sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)	m	92		
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50 Walls where one brick walls were removed (Material price for building sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)

m

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ALTERATIONS

**N1078 - BRICK
BRICKWORK AT VARIOUS BUILDINGS
AT THE UNIVERSITY OF VENDA**

Section No. 2

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SECTION 3: BUILDINGS

**N1078 - BRICK
BRICKWORK AT VARIOUS BUILDINGS
AT THE UNIVERSITY OF VENDA**

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 1</u></p> <p><u>FOUNDATIONS</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground</u></p> <p>The nature of the ground is assumed to be sandy weathered granite, therefore "earth", but possibly interspersed with "hard rock"</p> <p><u>Excavation for working space in rock</u></p> <p>Notwithstanding clause 11 page 8 of the Standard System of Measuring Building Work, excavation for working space in rock will be measured in cubic metres to the extent executed and given as "extra over" bulk excavation or trench and hole excavation as the case may be</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><u>Filling</u></p> <p>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material</p>			
	Carried to Collection			R
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**BRICKWORK AT VARIOUS BUILDINGS
AT THE UNIVERSITY OF VENDA**

EARTHWORKS

EXCAVATIONS

Excavation in earth not exceeding 2m deep

1	Trenches	m3	59
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2	Trenches in confined spaces through cut surface beds (cutting of surface bed elsewhere measured)	m3	90
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Extra over trench and hole excavations in earth for excavation in

3	Soft rock	m3	12
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4	Hard rock	m3	15
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Extra over all excavations for carting away

5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	148
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Risk of collapse of excavations

6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	356
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7	Sides of trench and hole excavations exceeding 1,5 and not exceeding 3m deep	m2	45
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Keeping excavations free of water

8	Keeping excavations free of water	Item	
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FILLING ETC

Earth filling of G7 material supplied by the contractor, compacted to 95% Mod AASHTO density

9	Backfilling to trenches, holes, etc (Material price = R400-00/m3 Vat excl. supplied and delivered)	m3	15
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	<u>Earth filling of G7 material supplied by the contractor, compacted to 95% Mod AASHTO density</u>			
10	Backfilling to trenches not exceeding 1000mm wide to form platforms for concrete strip footings (e/m) (Material price = R400-00/m3 Vat excl. supplied and delivered)	m3	77	
	<u>Earth filling of G7 material supplied by the contractor, compacted to 90% Mod AASHTO density in 150mm layers in confined spaces, etc</u>			
11	Under floors, steps, pavings, etc (Material price = R400-00/m3 Vat excl. supplied and delivered)	m3	6	
12	Under floors, steps, pavings, etc in confined spaces (Material price = R400-00/m3 Vat excl. supplied and delivered)	m3	23	
	<u>Prescribed density tests on filling</u>			
13	"Mod. AASHTO Density" test (Material price = R400-00/no Vat excl. supplied)	No	16	
	<u>SOIL POISONING</u>			
	<u>Soil insecticide to be executed with SABS compliance by a firm of specialists under a 5 year guarantee</u>			
14	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming (Material price = R8-00/m2 Vat excl. supplied)	m2	99	
15	To bottoms and sides of trenches etc (Material price = R8-00/m2 Vat excl. supplied)	m2	489	
	Carried to Collection			R
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**N1078 - BRICK
BRICKWORK AT VARIOUS BUILDINGS
AT THE UNIVERSITY OF VENDA**

	<u>Weedkiller mixed in accordance to supplier's specifications</u>			
16	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming (Material price = R8-00/m2 Vat excl. supplied)	m2	99	
17	To bottoms and sides of trenches etc (Material price = R8-00/m2 Vat excl. supplied)	m2	489	
<u>CONCRETE, FORMWORK & REINFORCEMENT</u>				
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>15MPa/19mm concrete</u>				
18	Surface blinding under footings and bases (Material price for concrete stones = R350-00/m3 supplied and delivered, river sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)	m3	4	
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>30MPa/19mm concrete</u>				
19	Strip footings (Material price for concrete stones = R350-00/m3 supplied and delivered, river sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)	m3	19	
<u>Soilcrete consisting of 1:20 cement/river sand mix</u>				
20	Backfilling to trenches (Material price for river sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)	m3	19	
Carried to Collection				
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**BRICKWORK AT VARIOUS BUILDINGS
AT THE UNIVERSITY OF VENDA**

TEST CUBES

- 21 Allow for preparing a set of three (3) concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith (Material price = R400-00/set Vat excl. supplied)

No 12

REINFORCEMENT

Mild steel reinforcement to structural concrete work

- 22 8mm Diameter bars (Material price = R24 000-00/ton Vat excl. supplied and delivered)

t 0.44

High tensile steel reinforcement to structural concrete work

- 23 12mm Diameter bars (Material price = R24 000-00/ton Vat excl. supplied and delivered)

t 0.76

- 24 16mm Diameter bars (Material price = R24 000-00/ton Vat excl. supplied and delivered)

t 1.30

SMOOTH FORMWORK (DEGREE OF ACCURACY I)

Smooth formwork to sides

- 25 Edges, risers, ends and reveals not exceeding 300mm high or wide

m 60

MOVEMENT JOINTS ETC

Expansion joints with bitumen impregnated softboard between vertical concrete surfaces

- 26 10mm Joints not exceeding 300mm high

m 10

JOINT SEALANTS ETC

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BRICKWORK AT VARIOUS BUILDINGS
AT THE UNIVERSITY OF VENDA**

	<u>"Sikaflex Pro 2HP" joint sealer as per manufacturer's instructions</u>			
27	15 x 10mm In vertical expansion joints including raking out expansion joint filler as necessary (Material price = R12-00/m Vat excl. supplied)	m	10	
	<u>MASONRY</u>			
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>			
28	Half brick walls (Material price for bricks = R142-50/m2 supplied and delivered, building sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)	m2	2	
29	One brick walls (Material price for bricks = R285-00/m2 supplied and delivered, building sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)	m2	102	
	<u>BRICKWORK SUNDRIES</u>			
	<u>Joint forming material in movement joints:</u>			
30	10mm Bitumen impregnated fibre board built in vertically between brickwork surfaces not exceeding 300mm wide (Material price = R10-00/m Vat excl. supplied)	m	10	
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
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**N1078 - BRICK
BRICKWORK AT VARIOUS BUILDINGS
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	<u>"abe Construction Chemicals"</u>			
	Application type: general sealing Application: porous and non porous surfaces			
	Ensure that surfaces to be sealed are clean, dry, sound and grease-free. Apply Dow Corning 813C using a caulking gun, all in accordance with manufacturer's recommendations.			
31	10 x 10mm In vertical expansion joints including raking out expansion joint filler as necessary (Material price = R12-00/m Vat excl. supplied)	m	10	
	<u>Brickwork reinforcement</u>			
32	150mm Wide reinforcement built in horizontally (Material price = R3-50/m Vat excl. supplied)	m	1,219	
	<u>High tensile steel dowel bars</u>			
33	6mm Diameter dowel bar 400mm long with one built into new brickwork and 100mm length fitted in and including 7mm diameter drilled in existing walls (Material price = R30-00/no Vat excl. supplied)	No	16	
	<u>The following in joints between existing walls and foundations (Engineers drawing no L/2991/C/8/001/Ra)</u>			
34	230 x 85mm high closure formed of polyurethane foam insulation or similar approved (Material price = R35-00/no Vat excl. supplied)	No	30	
35	50mm x 230mm uPVC pipe to form a void (Material price = R25-00/no Vat excl. supplied)	No	30	
	Carried to Collection			R
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**BRICKWORK AT VARIOUS BUILDINGS
AT THE UNIVERSITY OF VENDA**

36	110 x 70mm Pre-stressed concrete lintels 1150m long built into walls in foundations (Material price = R60-00/no Vat excl. supplied)						
		No	30				
	<u>FACE BRICKWORK</u>						
	<u>Face clay face brick, size 222 x 106 x 73mm, bedded and jointed in Class I mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zone 1-2 (PC Amount R9 000-00/1000 VAT excl. supplied and delivered to site)</u>						
37	Extra over brickwork for face brickwork (Material price for extra over for bricks = R334-50/m2 supplied and delivered, building sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)	m2	17				
	<u>Brick-on-edge header course copings, sills, etc of (PC Amount R9 000-00/1000 VAT excl. supplied and delivered to site) face bricks pointed with recessed joints on all exposed faces</u>						
38	Coping on top of one brick wall (Material price for extra over for bricks = R74-21/m supplied and delivered, building sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)	m	10				
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	Section No. 3 BUILDINGS Bill No. 1 FOUNDATIONS						

**N1078 - BRICK
BRICKWORK AT VARIOUS BUILDINGS
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**N1078 - BRICK
BRICKWORK AT VARIOUS BUILDINGS
AT THE UNIVERSITY OF VENDA**

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<p><u>BILL NO. 2</u></p>			
<p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p>			
<p><u>PREAMBLES</u></p>			
<p>For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Cost of tests</u></p>			
<p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor and to the approval of the architect. (Test cubes are measured separately)</p>			
<p><u>Breeze concrete</u></p>			
<p>Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated</p>			
<p align="right">Carried to Collection</p>			
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**N1078 - BRICK
BRICKWORK AT VARIOUS BUILDINGS
AT THE UNIVERSITY OF VENDA**

Formwork

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

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

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

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

Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"

REINFORCED CONCRETE

30MPa/19mm concrete

- 1 Surface beds cast in panels on waterproofing (Material price for concrete stones = R350-00/m3 supplied and delivered, river sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)

m3

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**N1078 - BRICK
BRICKWORK AT VARIOUS BUILDINGS
AT THE UNIVERSITY OF VENDA**

2	Surface beds cast in panels on waterproofing in confined spaces (Material price for concrete stones = R350-00/m ³ supplied and delivered, river sand = R350-00/m ³ supplied and delivered and cement = R110-00/bag Vat excl. supplied)	m ³	6		
3	Ramps (Material price for concrete stones = R350-00/m ³ supplied and delivered, river sand = R350-00/m ³ supplied and delivered and cement = R110-00/bag Vat excl. supplied)	m ³	0.4		
<u>TEST CUBES</u>					
4	Allow for preparing a set of three (3) concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith (Material price = R400-00/set Vat excl. supplied)	No	4		
<u>CONCRETE SUNDRIES</u>					
<u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u>					
5	Surface beds, slabs, etc	m ²	26		
6	Surface beds, slabs, etc in patches	m ²	69		
7	Ramps, etc	m ²	4		
<u>MOVEMENT JOINTS ETC</u>					
<u>Expansion joints with bitumen impregnated softboard between concrete and brickwork</u>					
8	10mm Joints not exceeding 300mm high along edges of surface beds (Material price = R12-00/m Vat excl. supplied)	m	186		
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	<u>Saw cut joints</u>				
9	5 x 10mm Saw cut joints in top of concrete (Material price = R12-00/m Vat excl. supplied)				
		m	15		
	<u>REINFORCEMENT</u>				
	<u>Fabric reinforcement</u>				
10	Steeledale Mesh standard square fabric mesh, nominal mass 2,45 kg/m ² with nominal 5,6mm thick wires and 200 x 200mm pitch (Ref 245), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long (Material price = R70-00/m ² Vat excl. supplied)				
		m ²	26		
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**N1078 - BRICK
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CONCRETE, FORMWORK & REINFORCEMENT

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BRICKWORK AT VARIOUS BUILDINGS
AT THE UNIVERSITY OF VENDA**

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p>			
<p><u>BILL NO. 3</u></p>			
<p><u>MASONRY</u></p>			
<p><u>PREAMBLES</u></p>			
<p>For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>BRICKWORK</u></p>			
<p><u>Sizes in descriptions</u></p>			
<p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p>			
<p><u>Linings to concrete</u></p>			
<p>Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties</p>			
<p><u>Hollow walls etc</u></p>			
<p>Descriptions of hollow walls shall be deemed to include wall ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole</p>			
<p>Wall ties shall be vertical twist type wall ties galvanised 750g/m2 zinc in accordance to SABS - 1986, and shall be at every 5th brick course at 500mm centres staggered in diamond formation</p>			
<p>Carried to Collection</p>			
<p>Section No. 3 BUILDINGS Bill No. 3 MASONRY</p>			
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**N1078 - BRICK
BRICKWORK AT VARIOUS BUILDINGS
AT THE UNIVERSITY OF VENDA**

Reinforced brick lintels

Lintels shall bear at least 160mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings the lintel shall be continuous

Face bricks

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

Pointing

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

SAMPLES

Samples of all masonry building units, shall consist of a minimum of 6 units

SUPERSTRUCTURE

Brickwork in NFP bricks in class II mortar in building up openings

- 1 One brick walls (Material price for bricks = R285-00/m2 supplied and delivered, building sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)

m2 60

Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar

- 2 Half brick walls (Material price for bricks = R142-50/m2 supplied and delivered, building sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)

m2 129

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**N1078 - BRICK
BRICKWORK AT VARIOUS BUILDINGS
AT THE UNIVERSITY OF VENDA**

3	One brick walls (Material price for bricks = R285-00/m2 supplied and delivered, building sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)	m2	963	
4	One brick walls in beamfilling (Material price for bricks = R285-00/m2 supplied and delivered, building sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)	m2	61	
<u>BRICKWORK SUNDRIES</u>				
<u>Brickwork reinforcement</u>				
5	75mm Wide reinforcement built in horizontally (Material price = R3-50/m Vat excl. supplied)	m	824	
6	150mm Wide reinforcement built in horizontally (Material price = R3-50/m Vat excl. supplied)	m	7,135	
<u>"Allied Concrete" prestressed fabricated lintels</u>				
7	110 x 70mm Lintels in lengths not exceeding 3m (Material price = R60-00/m Vat excl. supplied)	m	33	
8	110 x 70mm Lintels in lengths exceeding 3m and not exceeding 4,5m (Material price = R60-00/m Vat excl. supplied)	m	8	
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**N1078 - BRICK
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9	110 x 70mm Lintels in lengths exceeding 6m and not exceeding 7,5m (Material price = R60-00/m Vat excl. supplied)	m	44
	<u>Turning pieces</u>		
10	230mm Wide turning pieces to lintels etc	m	1
	<u>Galvanised hoop iron cramps, ties, etc</u>		
11	25 x 1,6mm Galvanised metal strap 750mm long once bent and nailed to concrete column with 2 x 4mm diameter nail/strap (Material price = R20-00/m Vat excl. supplied)	No	16
	<u>Joint forming material in movement joints:</u>		
12	10mm Bitumen impregnated fibre board built in vertically between brickwork surfaces in width not exceeding 300mm wide (Material price = R10-00/m Vat excl. supplied)	m	97
	<u>High tensile steel dowel bars</u>		
13	6mm Diameter dowel bar 400mm long with one built into new brickwork and 100mm length fitted in and including 7mm diameter drilled in existing walls (Material price = R30-00/m Vat excl. supplied)	No	85

FACE BRICKWORK

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MASONRY

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BRICKWORK AT VARIOUS BUILDINGS
AT THE UNIVERSITY OF VENDA**

	<u>Face clay face brick, size 222 x 106 x 73mm, bedded and jointed in Class I mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zone 1-2 (PC Amount R9 000-00/1000 VAT excl. supplied and delivered to site)</u>			
14	Extra over brickwork for face brickwork (Material price for extra over for bricks = R334-50/m2 supplied and delivered, building sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)	m2	733	
15	Extra over brickwork for brick-on-edge header course lintel pointed on face and 170mm soffit (Material price for extra over for bricks = R74-21/m supplied and delivered, building sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)	m	1	
	<u>Brick-on-edge header course copings, sills, etc of (PC Amount R9 000-00/1000 VAT excl. supplied and delivered to site) face bricks pointed with recessed joints on all exposed faces</u>			
16	110mm Wide sill set sloping and slightly projecting (Material price for extra over for bricks = R74-21/m supplied and delivered, building sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)	m	1	
17	Coping on top of one brick wall (Material price for extra over for bricks = R74-21/m supplied and delivered, building sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)	m	40	
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MASONRY

**N1078 - BRICK
BRICKWORK AT VARIOUS BUILDINGS
AT THE UNIVERSITY OF VENDA**

Item No	<u>SECTION NO. 3</u>	Quantity	Rate	Amount
	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>Gundle Gunplas DPC 250 Blue Black damp proof course in walls to Agreement Certificate 2001/284 laid with minimum 150mm overlaps.</u>			
1	In walls (Material price = R15-00/m2 Vat excl. supplied)	m2	81	
	<u>Gundle USB Green co ex 250µm damp proof membrane under concrete surface beds to SANS mark 952-1985 type C laid with minimum 150mm overlaps and sealed with Gunplas pressure sensitive tape.</u>			
2	Under surface beds (Material price = R15-00/m2 Vat excl. supplied)	m2	26	
3	Under surface beds in patches (Material price = R15-00/m2 Vat excl. supplied)	m2	69	
	<u>JOINT SEALANTS, ETC</u>			
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	Section No. 3 BUILDINGS Bill No. 4 WATERPROOFING			

**BRICKWORK AT VARIOUS BUILDINGS
AT THE UNIVERSITY OF VENDA**

"abe Construction Chemicals"

Application type: general sealing
Application: porous and non porous surfaces

Ensure that surfaces to be sealed are clean, dry, sound and grease-free. Apply Dow Corning 813C using a caulking gun, all in accordance with manufacturer's recommendations.

4 10 x 15mm In isolation joints including raking out of expansion joint filler as necessary (Material price = R12-00/m Vat excl. supplied)

m 186

5 10 x 10mm In vertical joints including raking out of expansion joint filler as necessary (Material price = R12-00/m2 Vat excl. supplied)

m 194

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WATERPROOFING

**N1078 - BRICK
BRICKWORK AT VARIOUS BUILDINGS
AT THE UNIVERSITY OF VENDA**

Section No. 3

BUILDINGS

Bill No. 4

WATERPROOFING

COLLECTION

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BRICKWORK AT VARIOUS BUILDINGS
AT THE UNIVERSITY OF VENDA**

Item
No

SECTION NO. 3

BILL NO. 5

METALWORK

PREAMBLES

For Preambles refer to "Department of Public Works:
Specification of material and methods to be used -
PW371"

SUPPLEMENTARY PREAMBLES

Descriptions

Descriptions of bolts shall be deemed to include nuts
and washers Descriptions of expansion anchors and
bolts and chemical anchors and bolts shall be deemed
to include nuts, washers and mortices in brickwork or
concrete Metalwork described as"holed for bolt(s)" shall
be deemed to exclude the bolts unless otherwise
described

Drawings

Tenderers are referred to architect's drawings annexed
to this document for full details of the windows, doors,
etc

PRESSED STEEL DOOR FRAMES

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

1 Frame for door 813 x 2032mm high (Material price =
R700-00/no Vat excl. supplied)

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2	Frame for door 900 x 2032mm high with 305mm high fanlight (Material price = R1 350-00/no Vat excl. supplied)	No	2		
3	Frame for door 900 x 2032mm high set in openings created elsewhere (Material price = R1050-00/no Vat excl. supplied)	No	6		
4	Frame for door 900 x 2032mm high with 305mm high fanlight set in openings created elsewhere (Material price = R1 350-00/no Vat excl. supplied)	No	2		
5	Frame for door 1300 x 2032mm high (Material price = R1 450-00/no Vat excl. supplied)	No	2		
6	Frame for door 1613 x 2032mm high with 305mm fanlight set in openings created elsewhere (Material price = R1 600-00/no Vat excl. supplied)	No	1		
	<u>1,2mm Double rebated frames suitable for one brick walls</u>				
7	Frame for door 813 x 2032mm high (Material price = R900-00/no Vat excl. supplied)	No	1		
8	Frame for door 900 x 2032mm high (Material price = R1250-00/no Vat excl. supplied)	No	1		
9	Frame for door 900 x 2032mm high with 305mm high fanlight (Material price = R1900-00/no Vat excl. supplied)	No	3		
10	Frame for door 900 x 2032mm high with 305mm fanlight set in openings created elsewhere (Material price = R1900-00/no Vat excl. supplied)	No	4		
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11	Frame for double door 1692 x 2100mm high (Material price = R1 500-00/no Vat excl. supplied)	No	1		
12	Frame for double door 1613 x 2032mm high set in openings created eslwewhere (Material price = R1 450-00/no Vat excl. supplied)	No	2		
<u>ALUMINIUM WINDOWS, DOORS, ETC.</u>					
<u>Purpose made steel windows</u>					
13	Window size 533 x 654mm high (Material price = R400-00/no Vat excl. supplied)	No	1		
14	Window size 533 x 654mm high set in openings created elsewhere (Material price = R400-00/no Vat excl. supplied)	No	1		
15	Window size 1022 x 949mm high (Material price = R500-00/no Vat excl. supplied)	No	2		
16	Window size 1022 x 1245mm high set in opening created elsewhere (Material price = R700-00/no Vat excl. supplied)	No	5		
17	Window size 1511 x 1540mm high (Material price = R1 800-00/no Vat excl. supplied)	No	2		
18	Window size 1511 x 1540mm high set in openings created elsewhere (Material price = R1 800-00/no Vat excl. supplied)	No	4		
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BUILDINGS
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METALWORK

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METALWORK

Item No		Quantity	Rate	Amount
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	<u>BILL NO. 11</u>			
	<u>PLASTERING</u>			
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Plastering of concrete soffits</u>			
	The plasterer should make sure that the surface to be plastered does not deviate from the required plane by more than 10mm. All high areas should be removed by hacking or cutting. Fill low areas by applying undercoats of plaster not exceeding 15m in thickness, apply one coat plaster to surface, leave to stiffen, strike off with a striker board, and wood float to an even surface and to a thickness of 10 - 15mm thick.			
	<u>SCREEDS</u>			
	<u>Screeds on concrete</u>			
1	20mm Thick on floors and landings	m2	341	
2	20mm Thick on floors and landings in patches	m2	184	
	<u>GRANOLITHIC</u>			
	<u>Untinted granolithic on concrete (Material price for river sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)</u>			
3	20mm Thick on floors and landings	m2	133	
	<u>INTERNAL PLASTER</u>			
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**BRICKWORK AT VARIOUS BUILDINGS
AT THE UNIVERSITY OF VENDA**

<u>Cement plaster on concrete (Material price for plaster sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)</u>			
4	On columns	m2	8
5	On beams	m2	4
<u>Cement plaster on brickwork</u>			
6	On walls	m2	1,870
7	On walls in patches	m2	20
8	On narrow widths	m2	11
<u>EXTERNAL PLASTER</u>			
<u>Cement plaster on brickwork</u>			
9	On walls	m2	1,074
10	On walls in patches	m2	8
11	On narrow widths	m2	11
<u>Cement plaster on concrete (Material price for plaster sand = R350-00/m3 supplied and delivered and cement = R110-00/bag Vat excl. supplied)</u>			
12	On columns	m2	13
13	On beams	m2	2
<u>ON SMOOTH CONCRETE</u>			
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14	<p><u>Prepare surfaces, by hacking or cutting, fill low areas by applying undercoats of plaster not exceeding 15mm thick, apply one coat plaster, leave to stiffen, strike off with stricker board, and wood float to an even surface and to a thickness of 10-15mm thick and finished with 6mm Rhinolite Gypsum Skim plaster in strict accordance of the manufacturer's instructions (Material price for plaster sand = R350-00/m3 supplied and delivered, cement = R110-00/bag and Rhinolite = R410-00/bag Vat excl. supplied)</u></p> <p>On concrete soffits</p>	m2	10	
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FINAL SUMMARY

