



**University of Venda**  
*Creating Future Leaders*

**KCMQS PROJECT NO. N1067**

**Construction of Covered Walkways and Ramps in Various Zones (Zone A  
PTN 4 and 5, Zone B PTN 4 and 5, Zones C and D PTNS 5) at the  
University of Venda, Thohoyandou, Limpopo Province  
(CIDB GRADING NO: 5GB)  
VOLUME 2 OF 2**

**PROCUREMENT DOCUMENT**

(Based on NEC3 Engineering and Construction Contract)

Date of Issue: 25 April 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**

# **PREAMBLES FOR TRADE**

**PREAMBLES FOR TRADES**

**1. MODEL PREAMBLES FOR TRADES**

The "Specification of Materials and Methods to be used - PW371" as issued by the Department of Public Works shall apply and shall be deemed to be incorporated herein.

The Bidders are referred to the above-mentioned document for the full description of materials to be used and work to be executed.

A copy of the above-mentioned document is available at the offices of the Principal Agent for inspection.

**2. VARIATIONS AND/OR ADDITIONS TO MODEL PREAMBLES FOR TRADES**

2.1 All work to be done in accordance to the detailed specification as per the Engineers and Architects drawings.

2.2 Where variations and/or additions to Model Preambles differ from Clauses contained in the "Specification of Materials and Methods to be used - PW371", the variations and/or additions to Preambles shall take precedence.

**3. MATERIALS AND WORKMANSHIP**

Materials and workmanship shall be the best of their respective kinds. Only undamaged materials may be used in the works. Work shall be to the satisfaction of the Architect/Engineer and shall be executed in accordance with good building practice and the relevant Manufacturer's instruction. Where the term "approved" is used in connection with materials and workmanship, it shall mean that such materials shall be to the approval, instructions or choice of the Architect.

**4. STANDARD SPECIFICATIONS**

Materials and Workmanship shall comply with the Standard Building Regulations (SBR), National Building Regulations (NBR), SABS1200, the specifications and codes of practice of the South African Bureau of Standards, and CSIR recommendations. In cases of variance, these "Specification of Materials and Methods to be used - PW371" and any supplementary preambles thereto shall have precedence over the above-mentioned regulations, specifications and codes of practice. In cases of variance between the SBR and NBR, the NBR shall have precedence.

The latest issues of the above-mentioned regulations, specifications and codes of practice, as well as those of any other specifying body, to which reference is made, shall be applicable.

References to standard specifications and/or building regulations in these "Specification of Materials and Methods to be used - PW371" are for the information of the Contractor and shall in no way relieve him of his obligations under the Contract.

# **SECTION 1: PRELIMINARIES**





**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
(ZONE A PTN 4 AND 5, ZONE B PTN 4 AND 5, ZONES C - D PTNS 5)  
AT THE UNIVERSITY OF VENDA**

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

## **SECTION A: CONDITIONS OF CONTRACT**

### **CORE CLAUSES**

#### **GENERAL**

##### **Action (clause 10)**

Actions (clause 10.1)

Fixed Related

Item

Carried to Collection

R

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PRELIMINARIES  
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PRELIMINARIES

**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
(ZONE A PTN 4 AND 5, ZONE B PTN 4 AND 5, ZONES C - D PTNS 5)  
AT THE UNIVERSITY OF VENDA**

	Value Related	Item		
	Time Related	Item		
<b><u>Identified and defined terms (clause 11)</u></b>				
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		
<b><u>Interpretation and the law (clause 12)</u></b>				
Interpretation of the law (clause 12.1 - 12.4)				
	Fixed Related	Item		
	Value Related	Item		
	Time Related	Item		
<b><u>Communication (clause 13)</u></b>				
Communication (clause 13.1 - 13.8)				
	Fixed Related	Item		
<b>Carried to Collection</b>			R	
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**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
(ZONE A PTN 4 AND 5, ZONE B PTN 4 AND 5, ZONES C - D PTNS 5)  
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Value Related	Item	
Time Related	Item	
<b><u>The Project Manager and the Supervisor (clause 14)</u></b>		
The Project Manager and the Supervisor (clause 14.1 - 14.4)		
Fixed Related	Item	
Value Related	Item	
Time Related	Item	
<b><u>Adding to the Working Areas (clause 15)</u></b>		
Adding to the Working Areas (clause 15.1)		
Fixed Related	Item	
Value Related	Item	
Time Related	Item	
<b><u>Early Warning (clause 16)</u></b>		
Early Warning (clause 16.1 - 16.4)		
Fixed Related	Item	
Value Related	Item	
Time Related	Item	
<b>Carried to Collection</b>		R
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**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
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AT THE UNIVERSITY OF VENDA**

**Ambiguities and inconsistencies (clause 17)**

Ambiguities and inconsistencies (clause 17.1)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Illegal and impossible requirements (clause 18)**

Illegal and impossible requirements (clause 18.1)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Prevention (clause 19)**

Prevention (clause 19.1))

Fixed Related

Item

Value Related

Item

Time Related

Item

**THE CONTRACTOR'S MAIN  
RESPONSIBILITIES**

**Providing the Works (clause 20)**

Providing the Works (clause 20.1)

**Carried to Collection**

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Fixed Related	Item	
Value Related	Item	
Time Related	Item	
<b><u>The Contractor's design (clause 21)</u></b>		
The contractor's design (clause 21.1 - 21.3)		
Fixed Related	Item	
Value Related	Item	
Time Related	Item	
<b><u>Using the Contractor's design (clause 22)</u></b>		
Using the Contractor's design (clause 22.1)		
Fixed Related	Item	
Value Related	Item	
Time Related	Item	
<b><u>Design of Equipment (clause 23)</u></b>		
Design of Equipment (clause 23.1)		
Fixed Related	Item	
Value Related	Item	
Time Related	Item	
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**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
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AT THE UNIVERSITY OF VENDA**

**People (clause 24)**

People (clause 24.1 - 24.2)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Working with the Employer and Others (clause 25)**

Working with the Employer and Others (clause 25.1 - 25.3)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Sub-contracting (clause 26)**

Sub-contracting (clause 26.1 - 26.3)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Other responsibilities (clause 27)**

Other responsibilities (clause 27.1 - 27.4)

**Carried to Collection****R**

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**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
(ZONE A PTN 4 AND 5, ZONE B PTN 4 AND 5, ZONES C - D PTNS 5)  
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Time Related	Item		
<b><u>Revising the programme (clause 32)</u></b>			
Revising the programme (clause 32.1 - 32.2)			
Fixed Related	Item		
Value Related	Item		
Time Related	Item		
<b><u>Access to and use of the Site (clause 33)</u></b>			
Access to and use of the Site (clause 33.1)			
Fixed Related	Item		
Value Related	Item		
Time Related	Item		
<b><u>Instruction to stop or not to start work (clause 34)</u></b>			
Instruction to stop or not to start work (clause 34.1)			
Fixed Related	Item		
Value Related	Item		
Time Related	Item		
<b>Carried to Collection</b>		R	
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**Take over (clause 35)**

Take over (clause 35.1 - 35.3)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Acceleration (clause 36)**

Acceleration (clause 36.1 - 36.3)

Fixed Related

Item

Value Related

Item

Time Related

Item

**TESTING AND DEFECTS****Testing and inspections (clause 40)**

Testing and inspections (clause 40.1 - 40.6)

Fixed Related

Item

Value Related

Item

Time Related

Item

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**Testing and inspections before delivery (Clause 41)**

Testing and inspection before delivery (clause 41.1)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Searching for and notifying Defects (Clause 42)**

Searching for and notifying Defects (Clause 42.1 - 42.2)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Correcting Defects (Clause 43)**

Correcting Defects (Clause 43.1 - 43.4)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Carried to Collection**

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**Accepting Defects (clause 44)**

Accepting Defects (clause 44.1 - 44.2)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Uncorrected Defects (clause 45)**

Uncorrected Defects (clause 45.1 - 45.2)

Fixed Related

Item

Value Related

Item

Time Related

Item

**PAYMENT****Assessing the amount due (clause 50)**

Assessing the amount due (clause 50.1 - 50.5)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Carried to Collection****R**

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**Payment (clause 51)**

Payment (clause 51.1 - 51.4)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Defined Cost (clause 52)**

Defined Cost (clause 52.1)

Fixed Related

Item

Value Related

Item

Time Related

Item

**The Bills of Quantities (clause 55)**

The bills of quantities (clause 55.1)

Fixed Related

Item

Value Related

Item

Time Related

Item

**COMPENSATION EVENTS****Carried to Collection****R**

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**Compensation events (clause 60)**

Compensation events (clause 60.1 - 60.7)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Notifying compensation events (clause 61)**

Notifying compensation events (clause 61.1 - 61.7)

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

Item

Time Related

Item

**Carried to Collection****R**

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**Assessing compensation events (clause 63)**

Assessing compensation events (clause 63.1 - 63.13)

Fixed Related

Item

Value Related

Item

Time Related

Item

**The Project Manager's assessment (clause 64)**

The Project Manager's assessment (clause 64.1 - 64.4)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Implementing compensation events (clause 65)**

Implementing compensation events (clause 65.1 - 65.4)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Carried to Collection**

**R**

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AT THE UNIVERSITY OF VENDA**

**TITLE****The Employer's title to Plant and Materials (clause 70)**

Plant and Materials outside the working area (clause 70.1)

Fixed Related

Item

Value Related

Item

Time Related

Item

Plant and Materials within the working area (clause 70.2)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Marking Equipment, Plant and Materials outside Working Areas (clause 71)**

Marking Equipment, Plant and Materials outside Working Areas (clause 71.1)

Fixed Related

Item

**Carried to Collection**

**R**

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**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
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AT THE UNIVERSITY OF VENDA**

**Employer's risk (clause 80)**

Employer's risk (clause 80.1)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Contractor's risk (clause 81)**

Contractor's risk (clause 81.1)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Repairs (clause 82)**

Repairs (clause 82.1)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Carried to Collection****R**

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**Indemnity (clause 83)**

Indemnity (clause 83.1- 83.2)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Insurance cover (clause 84)**

Insurance cover (clause 84.1 - 84.2)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Insurance policies (clause 85)**

Insurance policies (clause 85.1 - 85.4)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Carried to Collection**

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**If the Contractor does not insure (clause 86)**

If the Contractor does not insure (clause 86.1)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Insurance by the Employer (clause 87)**

Insurance by the Employer (clause 87.1 -87.3)

Fixed Related

Item

Value Related

Item

Time Related

Item

**TERMINATION****Termination (clause 90)**

Termination (clause 90.1 - 90.5)

Fixed Related

Item

**Carried to Collection****R**

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**Reasons for termination (clause 91)**

Item

## Item

## Time Related

## Item

R

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**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
(ZONE A PTN 4 AND 5, ZONE B PTN 4 AND 5, ZONES C - D PTNS 5)  
AT THE UNIVERSITY OF VENDA**

**Payment on termination (clause 93)**

Procedures on termination (clause 93.1 - 93.2)

Fixed Related

Item

Value Related

Item

Time Related

Item

**MAIN OPTION CLAUSES****DISPUTE RESOLUTION****Option W1**

Dispute Resolution (clause W1.1)

Fixed Related

Item

Value Related

Item

Time Related

Item

The Adjudicator (clause W1.2)

Fixed Related

Item

Value Related

Item

Time Related

Item

The Adjudication (clause W1.3)

Fixed Related

Item

Value Related

Item

**Carried to Collection****R**

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**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
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AT THE UNIVERSITY OF VENDA**

	Time Related	Item	
<b><u>Changes in the law (Option X2)</u></b>			
Changes in the law (clause X2.1)			
	Fixed Related	Item	
	Value Related	Item	
	Time Related	Item	
<b><u>Delay damages (Option X7)</u></b>			
Delay damages (clause X7.1 - X7.3)			
	Fixed Related	Item	
	Value Related	Item	
	Time Related	Item	
<b><u>Performance bond (Option X13)</u></b>			
Performance bond (Option X13.1)			
	Fixed Related	Item	
	Value Related	Item	
	Time Related	Item	
<b><u>Advanced payment to the contractor (Option X14)</u></b>			
Advanced payment to the contractor (Option X14.1 - X14.3)			
	Fixed Related	Item	
	Value Related	Item	
	Time Related	Item	
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**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
(ZONE A PTN 4 AND 5, ZONE B PTN 4 AND 5, ZONES C - D PTNS 5)  
AT THE UNIVERSITY OF VENDA**

**Limitation of the Contractor's liability for his design  
to reasonable skill and care (Option X15)**

Limitation of the Contractor's liability for his design to  
reasonable skill and care (Option X15.1 - X15.2)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Retention (Option X16)**

Retention (Option X16.1 - X16.2)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Low performance damages (Option X17)**

Low performance damages (Option X17.1)

Fixed Related

Item

Value Related

Item

Time Related

Item

**Limitation of Liability (Option X18)**

Limitation of Liability (Option X18.1 - X18.5)

Fixed Related

Item

Value Related

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	Time Related	Item		
<b><u>CONTRACT DATA</u></b>				
Contractual Requirements as stated elsewhere in the document				
<b><u>ESTABLISHMENT OF FACILITIES ON THE SITE</u></b>				
<b><u>Facilities for Project Manager</u></b>				
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		
<b><u>Facilities for the contractor</u></b>				
Living accommodation				
	Fixed Related	Item		
	Value Related	Item		
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**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
(ZONE A PTN 4 AND 5, ZONE B PTN 4 AND 5, ZONES C - D PTNS 5)  
AT THE UNIVERSITY OF VENDA**

**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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**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
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**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
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PRELIMINARIES

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PRELIMINARIES

## **SECTION 2: ALTERATIONS**

**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
(ZONE A PTN 4 AND 5, ZONE B PTN 4 AND 5, ZONES C - D PTNS 5)  
AT THE UNIVERSITY OF VENDA**

Item  
No

Quantity

Rate

Amount

**SECTION NO.2**

**BILL NO. 1**

**ALTERATIONS**

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

**REMOVAL OF EXISTING WORK:**

**ALTERATIONS**

**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 Project Manager

**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.

**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 Project Manager to whom due notice must be given of any alterations to the existing services.

**Carried to Collection**

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ALTERATIONS  
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**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
(ZONE A PTN 4 AND 5, ZONE B PTN 4 AND 5, ZONES C - D PTNS 5)  
AT THE UNIVERSITY OF VENDA**

**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.

**DEMOLITIONS, ETC.**

Demolitions, etc.

- |   |   |    |   |   |
|---|---|----|---|---|
| 1 | Digging up of existing brick stormwater catchpit size approximately 750 x 750 x 600mm deep, closing off of stormwater line, backfilling of hole and leave in a neat condition | No | 2 | R |
|---|---|----|---|---|

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**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
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2	Digging up of existing brick manhole size approximately 1000 x 1000 x 1200mm deep manhole, closing off of sewer line, backfilling of hole and leave in a neat condition	No	1
	<u>Breaking down of paving, etc.</u>		
3	50mm Thick brick paving and cart away to a dumping site to be located by the contractor	m2	13
4	60mm Thick double interlocking precast grey coloured concrete paving block and cart away to a dumping site to be located by the contractor	m2	12

**Carried to Collection**

**R**

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**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
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## **SECTION 3: SITE WORKS**



**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
(ZONE A PTN 4 AND 5, ZONE B PTN 4 AND 5, ZONES C - D PTNS 5)  
AT THE UNIVERSITY OF VENDA**

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>CANOPY, ETC.</u></b>			
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			
	<b><u>EARTHWORKS</u></b>			
	<b><u>EXCAVATIONS</u></b>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Holes	m3	737	
	<u>Clean river sand filling supplied by the contractor compacted to 85 - 90% mod. AASHTO density at -2% to 1% OMC in holes</u>			
2	150mm Thick layer of clean river sand compacted to 85 - 90% mod. AASHTO density at -2% to 1% OMC in holes	m2	590	
3	Backfilling to holes compacted to 93% mod. AASHTO density	m3	115	
	<u>Earth filling obtained from the excavations on site compacted to 93% Mod AASHTO density at -2% to 1% OMC</u>			
4	150mm Thick layer of selected filling from excavations compacted to 93% mod. AASHTO density at -2% to 1% OMC in holes	m2	590	
	<b>Carried to Collection</b>			
	Section No. 3 SITE WORKS Bill No. 1 ROOF STRUCTURE			
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**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
(ZONE A PTN 4 AND 5, ZONE B PTN 4 AND 5, ZONES C - D PTNS 5)  
AT THE UNIVERSITY OF VENDA**

5	150mm Thick layer of selected filling from excavations compacted to 93% mod. AASHTO density at -2% to 1% OMC in holes	m2	590
	<u>Earth filling of G7 material supplied by the contractor, compacted to 93% Mod AASHTO density at -2% to 1% OMC</u>		
6	150mm Thick layer of imported G7 material compacted to 93% mod. AASHTO density at -2% to 1% OMC in holes	m2	590
7	150mm Thick layer of imported G7 material compacted to 93% mod. AASHTO density at -2% to 1% OMC in holes	m2	590
8	150mm Thick layer of imported G7 material compacted to 93% mod. AASHTO density at -2% to 1% OMC in holes	m2	590
	<u>Extra over trench and hole excavations in earth for excavation in</u>		
9	Soft rock	m3	12
10	Hard rock	m3	9
	<u>Extra over all excavations for carting away</u>		
11	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	560

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ROOF STRUCTURE

**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
(ZONE A PTN 4 AND 5, ZONE B PTN 4 AND 5, ZONES C - D PTNS 5)  
AT THE UNIVERSITY OF VENDA**

	<u>Risk of collapse of excavations</u>		
12	Sides of trench and hole excavations not exceeding 1,5m deep	m2	1,965
	<u>Keeping excavations free of water</u>		
13	Keeping excavations free of water		Item
	<u>Prescribed density tests on filling</u>		
14	"Mod. AASHTO Density" test	No	524
	<b><u>SOIL POISONING</u></b>		
	<u>Soil insecticide to be executed with SABS compliance by a firm of specialists under a 5 year guarantee</u>		
15	To bottoms and sides of trenches etc	m2	2,555
	<u>Weedkiller mixed in accordance to supplier's specifications</u>		
16	To bottoms and sides of trenches etc	m2	2,555
	<b><u>CONCRETE, FORMWORK &amp; REINFORCEMENT</u></b>		
	<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>		
	<u>30MPa/19mm concrete</u>		
17	Bases	m3	92
	<b><u>TEST CUBES</u></b>		
18	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.	No	36

**REINFORCEMENT**

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**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
(ZONE A PTN 4 AND 5, ZONE B PTN 4 AND 5, ZONES C - D PTNS 5)  
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	<u>High tensile steel reinforcement to structural concrete work</u>		
19	12mm Diameter bars	t	5.35
	<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b>		
	<u>Rough formwork to sides</u>		
20	Edges exceeding 300mm high	m2	367
	<b><u>ROOF COVERINGS, ETC.</u></b>		
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>		
	<u>Roof Installer:</u>		
	<u>The roof shall be installed by a Safintra accredited and approved installer, who will present their accreditation to the Project Manager for their scrutiny before commencing</u>		
	<u>Saflok 700 0.5mm Thick Colorplus AZ100, Colour to be confirmed, C.1.S finish with standard backing coat Cool Grey G550 interlocking roof sheeting with AZ100 spelter to both sides fixed to steel purlins not exceeding 1900mm centres and to ridge and eaves at not exceeding 1700mm centres. Saflok 700 ZincAL 0.8mm clips fastened with Fxite Class 4 self tapping wafer head 10 x 22mm for steel fix all in accordance with manufacturer's recommendations.</u>		
21	Roof coverings with pitches exceeding 25 degrees	m2	1,877

**STRUCTURAL STEELWORK**

**STEEL COLUMNS AND BEAMS**

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**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
(ZONE A PTN 4 AND 5, ZONE B PTN 4 AND 5, ZONES C - D PTNS 5)  
AT THE UNIVERSITY OF VENDA**

	<u>Welded portal frames with flat section bearer, gusset and connection plates and L-section cleats bolted to concrete</u>		
22	Mono pitched portal frame comprising of 100 x 100 x 4mm thick rectangular section columns and rafters, the column height being 2700mm extreme, the rafter being 1861mm long, with 50 x 50 x 3mm rectangular section bracing 800mm long welded to column and rafter, the column 10mm fillet welded to steel plate (e/m) with four (4) stiffener of steel plates size 5mm thick x 50mm wide x 100mm high (the rafter closed at end for waterproofing purposes)	No	524
	<u>Steel fixing plates, etc.</u>		
23	400mm x 250 x 12mm Thick base plate six (6) times drilled for bolts and welded to steel columns (bolts and welding e/m)	No	262
	<u>Bolts to columns, beams, and trusses, etc</u>		
24	M12 Bolt Full thread bolt 30mm with two (2) washers and one (1) nut	No	1,572
25	Drill hole through 2,5mm steel for 10mm diameter bolt	No	1,572
26	M16 Gr.8.8 Anchor bolt 340mm long with matching nut and two (2) washers	No	1,572
	<b><u>PURLINS, GIRTS, BRACING, ETC</u></b>		
	<u>Purlins and girts bolted to steel</u>		
27	75 x 50 x 20 x 2,5mm Thick CFLC purlins	m	2,346
28	5mm Thick cleat size 100 x 100 x 75mm high welded to rafter and once drilled for bolt (bolt e/m)	No	1,572

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**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
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	<u>Welded bracing etc with flat section connection plates bolted to steel</u>		
29	45 x 45 x 4mm Thick angle section vertical bracing	m	219
30	45 x 45 x 4mm Thick angle section horizontal bracing	m	194

**PLASTERING****GROUT, ETC.**Non shrink grout

31	25mm Thick bedding under 400 x 250mm wide base plate including chamfering edges all round	No	262
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**PAINTWORK****PAINTWORK ETC TO NEW WORK**Prepare and apply two coats "Abecote Epoxy tar 352" tar paint on steel

32	On columns	m2	31
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**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
(ZONE A PTN 4 AND 5, ZONE B PTN 4 AND 5, ZONES C - D PTNS 5)  
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	<u>Plascon Super Universal Enamel to exterior new mild steel. Surface to be clean and dry. Remove surface contaminants using Metalcare Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3 of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat Metalcare Mild Steel Primer (UC 501) with an overcoating time of 16 hours and finish with two coats Super Universal Enamel (NY 1/G) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.</u>		
33	On rails, bars, pipes, etc not exceeding 300 mm girth	m	2,969
34	On columns and beams	m2	446

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**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
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ROOF STRUCTURE



**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
(ZONE A PTN 4 AND 5, ZONE B PTN 4 AND 5, ZONES C - D PTNS 5)  
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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 2</u></b>			
	<b><u>WALKWAYS, ETC.</u></b>			
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<u>Materials and workmanship must be in accordance to the following SABS 1200 specifications:</u>			
	C - Site clearance			
	D - Earthworks			
	DM - Earthworks (Roads, subgrade)			
	M - Roads (General)			
	ME - Sub-base			
	MF - Base			
	MK - Kerb and Channeling			
	MM - Ancillary Roadworks			
	<u>Soil poisoning and weed killer</u>			
	Soil insecticide and weed killer to be executed with SABS compliance by a firm of specialists under a 5 year guarantee under paving			
	<b><u>EXCAVATION, FILLING, ETC</u></b>			
	<u>Open face excavation in earth over site</u>			
1	Excavate in pickable earth to reduce ground level below paving and set aside for later use	m3	413	
2	Excavate in pickable earth to reduce ground level below paving and but cart away excavated material to a dumping place to be found by the contractor (cut to spoil)	m3	338	
	<b>Carried to Collection</b>			R
	Section No. 3 SITE WORKS Bill No. 2 PAVED WALKWAYS			

**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
(ZONE A PTN 4 AND 5, ZONE B PTN 4 AND 5, ZONES C - D PTNS 5)  
AT THE UNIVERSITY OF VENDA**

3	Rip and scarify ground level to a depth of 150mm and consolidate to 93% mod. AASHTO density (minimum CBR 5)	m2	1,877
4	Extra over excavation for excavation in soft rock	m3	15
5	Extra over excavation for excavation in hard rock	m3	11
<u>Walkway layers</u>			
The following to be natural selected gravel layers evenly spread and consolidated in layers and dimensions as specified and on the drawings. All thicknesses to be consolidated thicknesses.			
Where described as "imported" the gravel to be supplied and carted on by the contractor from an approved borrow pit			
6	Selected filling previously set aside laid in 150mm thick layers to 96% mod. AASHTO density, PI $\leq$ 6, Grading Modules = 2,6 $\geq$ GM $\geq$ 1,2	m3	413
7	Imported filling laid in 150mm thick layers to 96% mod. AASHTO density, PI $\leq$ 6, Grading Modules = 2,6 $\geq$ GM $\geq$ 1,2	m3	338
8	150mm Thick imported G6 material laid in 150mm thick layers and compacted to 96% mod. AASHTO density, PI $\leq$ 6, Grading Modules = 2,6 $\geq$ GM $\geq$ 1,2	m2	1,877
9	"Mod. AASHTO Density" test	No	40

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**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
(ZONE A PTN 4 AND 5, ZONE B PTN 4 AND 5, ZONES C - D PTNS 5)  
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10	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.	No	28
<b><u>WALKWAYS</u></b>			
<b><u>Interlocking paving</u></b>			
11	60mm Thick double interlocking (DZZ) precast grey coloured concrete paving blocks laid in a herringbone pattern on and including 25mm thick washed river sand founding layer and covered with plaster sandlayer vibrated into joints with a plate vibrator all laid on subgrade conforming to SANS 1200 D Degree Of Accuracy I. Paving to be inspected and re-sanded after three months.	m2	1,877
12	Weed-killing treatment of surface under paving etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	1,877
13	Soil poisoning under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	1,877
<b><u>Kerbs, etc</u></b>			
14	Precast concrete figure 8B kerb (SABS 927), levelled and jointed in 1:5 cement mortar complete with 15Mpa/19mm in situ concrete support blocks size 225 x 150 x 225mm high, at joints at 1,0m centres, including leaving 6mm expansion joints at 10m intervals between kerbs	m	1,564
15	Extra over cutting paving blocks to fit edge	m	1,569
<b><u>Sundries</u></b>			
16	Mass concrete (25MPa) in 60 x 60mm edge filler strip finished smooth on top with a wood float, including all excavation, formwork, etc	m	1,569

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**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
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PAVED WALKWAYS

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## SITE WORKS

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## 1 ROOF STRUCTURE

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## 2 | PAVED WALKWAYS

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## **FINAL SUMMARY**

**CONSTRUCTION OF COVERED WALKWAYS AND RAMPS IN VARIOUS ZONES  
(ZONE A PTN 4 AND 5, ZONE B PTN 4 AND 5, ZONES C - D PTNS 5)  
AT THE UNIVERSITY OF VENDA**

Section No	FINAL SUMMARY	Page No	Amount
1	PRELIMINARIES	30	
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	Sub Total 1		R
	<b><u>CONTINGENCY SUM</u></b>		
	Allow the amount of R200 000-00 (two hundred thousand rand) for Contingencies for building work, to be used as directed by the Principal Agent and deducted in whole or in part if not required		
		Item	200,000.00
	Sub total (VAT excl)		R
	Tax		R
	Sub Total (VAT INCL.) CARRIED TO TENDER FORM		R
	Carried to Form of Tender		R