

KCMQS PROJECT NO. N1054

Centre of Entrepreneurship and Nutritional analysis Lab at the University of Venda, Thohoyandou, Limpopo Province (CIDB GRADING NO: 6GB) **VOLUME 2 OF 2**

PROCUREMENT DOCUMENT

(Based on NEC3 Engineering and Construction Contract)

Date of Issue: 23 June 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

- a. All work to be done in accordance to the detailed specification as per the Engineers and Architects drawings.
- b. 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 Contact.

SECTION 1: PRELIMINARIES

SECTION 1 BILL NO. 1 PRELIMINARIES I) The NEC3 Engineering and Construction Contract Option Is Priced contract with bill of quantities (Third edition of June 2005 reprinted in 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 is asset to the total of prices excluding any contingency sum and the amount for Preliminaries is in the following shall be calculated on the basis as set out in (iii) but taking into account the revised period for completing the works 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 varied in proportion to the contract value, namely value related; and c) an amount which is varied in proportional to the construction period for which the contractor is not entitled to adjustment in terms of the initial construction period of or which the contractor is not entitled to adjustment in terms of the contractor is not entitled to adjustment in terms of the contractor is not entitled to adjustment in terms of the contractor is not entitled to adjustment in terms of the contractor is not entitled to adjustment in terms of the contractor, namely Time Related		Quantity	Rate	Amount	
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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 beased 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 not withstanding the actual employment of resources in the execution of the works. The contract value used for the adjustment of the Preliminaries shall exclude any contingecy sum and the amount for Preliminaries			
SECTION A: CONDITIONS OF CONTRACT			
CORE CLAUSES			
GENERAL			
Action (clause 10)			
Actions (clause 10.1)			
Fixed Related	Item		
Value Related	Item		
Time Related	Item		
Identified and defined terms (clause 11)			
Condition of contract (clause 11.1)			
Fixed Related	Item		
Value Related	Item		
Time Related	Item		
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Defined Assert (days 44.0)	1 1	II	ĺ	
Defined terms (clause 11.2)				
Fixed Related	Item			
Value Related	Item			
Time Related	Item			
Interpretation and the law (clause 12)				
Interpretation of the law (clause 12.1 - 12.4)				
			e.	
Fixed Related	Item			
Value Related	Item			
Time Related	Item			
Communication (clause 13)				
Communication (clause 13.1 - 13.8)				
Fixed Related	Item			
Value Related	Item			
Time Related	Item			
The Project Manager and the Supervisor (clause 14)				
The Project Manager and the Supervisor (clause 14.1 -				
14.4)				
Fire d Beleted	lta-ra			
Fixed Related	Item			
Value Related	Item			
Time Related	Item			
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Adding to the Working Areas (clause 15)			
Adding to the Working Areas (clause 15.1)			Đ
Fixed Related	Item		
Value Related	Item		
Time Related	Item		
Early Warning (clause 16)			
Early Warning (clause 16.1 - 16.4)			
Fixed Related	Item		
Value Related	Item		
Time Related	Item		
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)			
	10 m		
Fixed Related	Item		
Value Related	Item		
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	Time Related	Item	
Prevention (clause 1	<u>19)</u>		
Prevention (clause 19	9.1))		
	Fixed Related	Item	
-	Value Related	Item	
	Time Related	Item	
THE CONTRACTO			
THE CONTRACTOR RESPONSIBILITIES			
Providing the Works	s (clause 20)		
Providing the Works ((clause 20.1)		
	Fixed Related	Item	
	Value Related	Item	
	Time Related	item	
The Contractor's de	sign (clause 21)		
The contractor's design	gn (clause 21.1 - 21.3)		
	Fixed Related	Item	
	Value Related	Item	
	Time Related	Item	
Using the Contracto	or's design (clause 22)		
Using the Contractor's	s design (clause 22.1)		
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Fixed Related	Item		
Value Related	Item		
Time Related	Item		
Design of Equipment (clause 23)			
Design of Equipment (clause 23.1)			
Fixed Related	Item		
Value Related	Item		
Time Related	Item		
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)			
20.0)			
Fixed Related	Item		
Value Related	Item		
Time Related	Item		
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Sub-contracting (clause 26)				1
Sub-contracting (clause 26.1 - 26.3)				
	Fixed Related	Item		
	Value Related	Item		
	Time Related	Item		<i>it</i>
Other responsibilities (clause 27)				
Other responsibilities (clause 27.1 - 27.4))			
	Fixed Deleted	Itam		
	Fixed Related	Item		
	Value Related	Item		
	Time Related	Item		
TIME				
Starting, Completion and Key dates (c	clause 30)			
Starting date (clause 30.1)				
Claring date (Cladse 50.1)				
	Fixed Deleted	Itom		
	Fixed Related	Item		
	Value Related	Item		
	Time Related	Item		
Completion date (clause 30.2)				
	Fixed Related	Item		
	Value Related	Item		
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Time Related	Item		
Key date (clause 30.3)			
Fixed Related	Item		
Value Related	Item		
Time Related	Item		
The Programme (clause 31)			
The Programme (clause 31.1 - 31.3)			
Fixed Related	Item		
Value Related	Item		
Time Related	Item		
Revising the programme (clause 32)			
Revising the programme (clause 32.1 - 32.2)			
Fixed Related	Item		
Value Related	Item		
Time Related	Item		
Access to and use of the Site (clause 33)			
Access to and use of the Site (clause 33.1)			
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Fixed Related	Item		
Value Related	item		
Time Related	Item		
Carried to Collection		R	
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Instruction to stop or not to start w	ork (clause 34)			
Instruction to stop or not to start work	(clause 34.1)			
	Fixed Related	Item		
	Value Related	Item		
	Time Related	Item		
Take over (clause 35)				
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Take over (clause 35.1 - 35.3)				
	Fixed Related	Item		
	Value Related	Item		
	Time Related	Item		
Acceleration (clause 36)	rime Neialeu	nem		
Acceleration (clause 36.1 - 36.3)				
	Fixed Related	item		
	Value Related	Item		
	Time Related	Item		
TESTING AND DEFECTS				
Testing and inspections (clause 4	<u>0)</u>			
Testing and inspections (clause 40.1				
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	Fixed Related	Item		
	Value Related	Item		
	Time Related	Item		
Testing an	d inspections before delivery (Clause			
41)				
Testing and	d inspection before delivery (clause 41.1)			
	Fixed Deleted	lta.m.		
	Fixed Related	Item		
	Value Related	Item		
	Time Related	Item		
Searching	for and notifying Defects (Clause 42)			
Searching f	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)		8	
	Fixed Related	Item		
	Value Related	Item		
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	Time Related	Item			
Accepting Defects (clause 44)					
Accepting Defects (clause 44.1 - 44.2)					
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	Fixed Related	Item			
	Value Related	Item			
	Time Related	Item			
Uncompeted Defects (clause 45)	Time Neiateu	ileiii			
Uncorrected Defects (clause 45)					
Uncorrected Defects (clause 45.1 - 45.2)					
	5. 15.44	14			
	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	Itom			
		Item			
	Value Related	Item			
	Time Related	Item			
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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)				
			a)	
Fixed Related	Item			
Value Related	Item			
Time Related	Item			
COMPENSATION EVENTS				
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Compensation events (clause 60)	1		
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)	itom		
Quotation for compensation events (clause 62.1 - 62.6)			
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Fixed Related	Item		
Value Related	Item		
Time Related	Item		
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Assessing compensation events (clause 63)	1 1		
Assessing compensation events (clause 63.1 - 63.13)			
reasoning companion events (enauce co. 1 co. 10)			
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 Deleted	Itam		
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		
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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)			
10.2)			
Fixed Related	Item		
Value Related	Item		
Time Related	Item	7	
Marking Equipment, Plant and Materials outside Working Areas (clause 71)			
Marking Equipment, Plant and Materials outside Working Areas (clause 71.1)			
Fixed Related	Item	100	
Value Related	Item		
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Carried to Collection		R	
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Time Related	Item		
Removing Equipment (clause 72)			
Removing Equipment (clause 72.1)			
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Fixed Related	Item		
Value Related	Item		
Time Related	Item		
Objects and materials within the site (clause 73)			
Objects and materials within the site (clause 73.1 - 73.2)			
Fixed Related	Item		
	Item		
Value Related			
Time Related	Item		
RISK AND INSURANCE			
Employer's risk (clause 80)			
Employer's risk (clause 80.1)			
e e			
Fixed Related	Item		
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	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		
Indemnity (clause 83)	Time Woldtod			
Indemnity (clause 83.1- 83.2)				
indentitity (clause 65.1-65.2)				
	Fixed Related	Item		
	Value Related	Item		
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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		
If the Contractor does not insure (clause 86)			
If the Contractor does not insure (clause 86.1)			
Fixed Related	Item		
Value Related	Item		
Carried to Collection Section No. 1		R	
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	Time Related	Item	
Insurance by the Employer (clau	<u>ise 87)</u>		
Insurance by the Employer (clause	e 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	
	Value Related	Item	
	Time Related	Item	
Reasons for termination (clause	<u>91)</u>		
Reasons for termination (clause 9	1.1 - 91.7)		
	Carried to Collection		R
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Fixed Related	Item		
Value Related	Item		
Time Related	Item		
Procedures on termination (clause 92)			
Procedures on termination (clause 92.1 - 92.2)			
Fixed Related	Item		
Value Related	Item		
Time Related	Item		
Payment on termination (clause 93)			
Procedures on termination (clause 93.1 - 93.2)			
Fixed Related	Item		
Value Related	Item		
Time Related	Item	at .	
MAIN OPTION CLAUSES			
DISPUTE RESOLUTION			
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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		
	Time Related	Item		
Review by the Tribunal (clause W1.4)				
	Fixed Related	Item		
	Value Related	Item		
	Time Related	Item		
SECONDARY OPTION CLAUSE	<u>:s</u>			
Price adjustment for inflation (Option	<u>x X1)</u>			
Defined terms (clause X1.1)				
	Fixed Related	Item		
	Value Related	Item		
	Time Related	Item		
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Price Adjustment Factor (clause X1.2)				
Fixed Related	Item			
Value Related	Item			
Time Related	Item			
Compensation Event (clause X1.3)				
Fixed Related	Item			
Value Related	Item			
Time Related	ltem			
Price Adjustment (clause X1.4)				
Fixed Related	Item			
Value Related	Item			
Time Related	Item			
Changes in the law (Option X2)				
Changes in the law (clause X2.1)				
Fixed Related	Item			
Value Related	Item			
Time Related	Item			
Delay damages (Option X7)				
Delay damages (clause X7.1 - X7.3)				
Fixed Related	Item			
Value Related	Item			
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Perfomance bond (Option X13)				
Performance bond (Option X13.1)				
Fixed Related	Item			
Value Related	Item			
Time Related	Item			
Advanced payment to the contractor (Option X14)				
Advanced payment to the contractor (Option X14.1 - X14.3)				
Fixed Related	Item			
Value Related	Item			
Time Related	Item			
<u>Limitation of the Contractor's liability for his design</u> <u>to reasonable skill and care (Option X15)</u>				
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)			1	
Retention (Option X16.1 - X16.2)			1	
Fixed Related	Item			
Value Related	Item			
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Low performance damages (Option X	<u>17)</u>			
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	3.5)			
	Fixed Related	Item		
	Value Related	Item		
	Time Related	Item		
CONTRACT DATA				
Contractual Requirements as stated else document	where in the			
ESTABLISHMENT OF FACILITIES	S ON THE			
Facilities for Project Manager				
Furnished offices (In no 1)	u.			
	Fixed Related	Item		
	Value Related	Item		
	Time Related	Item		
Name boards (In no 1)				
	Fixed Related	Item		
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Value Related	Item			
Time Related	Item			
Offices and storage sheds				
Fixed Related	Item			
Value Related	Item			
Time Related	Item			
Facilities for the contractor				
Living accommodation				
Fixed Related	Item			
Value Related	Item			
Time Related	Item			
Ablution and latrine facilities				
Fixed Related	Item			
Value Related	Item	-		
Time Related	Item			
Tools and Equiments			58	
Fixed Related	Item			
Value Related	Item			
Time Related	ltem			
Water supplies, electric power, communication, dealing with water and access				
Fixed Related	Item			
Value Related	Item			
Time Related	Item			
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Other fixed charge obligations			
Fixed Related	Item		
Value Related	ltem		
Time Related	Item		
Removal of site establishment			
Fixed Related	Item		
Value Related	Item		
Time Related	Item		
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	ltem		
Allow for compliance with all COVID 19 Regulations and Requirements			
Fixed Related	Item		
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Time Related	Item		
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SECTION 2: ALTERATIONS

Item No		Quantity	Rate	Amount	
	SECTION NO.2				
	BILL NO.1				
	ALTERATIONS				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades as well as Engineering Specifications attached to these documents.				
	SUPPLEMENTARY PREAMBLES				
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"				
	REMOVAL OF EXISTING WORK:				
	<u>ALTERATIONS</u>				
	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.				
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	Section No. 2 ALTERATIONS Bill No. 1 ALTERATIONS				

	ANALTSIS LAD	AI INE UNIVE	RSIIT OF VENDA
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 Agent 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 form 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.			
REMOVAL OF EXISTING WORK			
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1			ī	1	1
	Breaking up and removing mass concrete				
1	Concrete bases	m3	3		
	Breaking up and removing reinforced concrete including cutting off and removing reinforcement				
2	Beams	m3	1		
	Taking out and removing doors, windows, etc including thresholds, sills, etc (building up openings elsewhere)				
3	Timber single door and frame size 1510 x 2100mm high	No	2		
	OPENINGS THROUGH EXISTING WALLS ETC				
	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)				
4	Create opening size 900 x 1200mm high overall through one brick wall	No	4		
5	Create opening size 5232 x 3828mm high overall through one brick wall	No	1		
6	Create opening size 1510 x 2100mm high overall through one brick wall	No	2		
	BUILDING UP OPENINGS				
	Brickwork in NFP bricks in class II mortar in building up openings				
7	One brick walls	m2	6		
	Sundries				
8	Cutting toothings and bonding new brickwork to existing	m2	1		
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SECTION 3: BUILDINGS

		Quantity	Rate	Amount
SEC	TION NO.3			
BILL	<u>NO.1</u>			
FOU	<u>NDATIONS</u>			
	eambles refer to "Department of Public Works: ication of material and methods to be used - 1"			
SUPF	PLEMENTARY PREAMBLES			
Nature	e of ground			
weathe	ature of the ground is assumed to be sandy ered granite, therefore "earth", but possibly persed with "hard rock"			
Excav	ation for working space in rock			
Syster working to the	hstanding clause 11 page 8 of the Standard m of Measuring Building Work, excavation for a space in rock will be measured in cubic metres extent executed and given as "extra over" bulk ation or trench and hole excavation as the case e			
Carting	g away of excavated material			
be dea	iptions of carting away of excavated material shall emed to include loading excavated material onto directly from the excavations or, alternatively, tock piles situated on the building site			
Filling				
handli Measu	chstanding the reference to prescribed multiple ng in clause 1 page 6 of the Standard System of uring Building Work, prices for filling and backfilling nclude for all selection and any multiple handling terial			
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Excavations		
All excavations will be by hand		
Concrete curing before propping		
All concrete will be allowed to cure for 14 days before allowing for propping, The contractor will not prop until they have submitted concrete tests result to the Engineers for approval		
Concrete mixing		
All concrete to be in line with SABS1200		
All site mixed concrete to have mix design approved and tested before casting		
All concrete to be vibrated		
No 50/50 slag cement may be used without the Engineer's approval		
Reinforcement		
Reinforcement steel to be supported on spacer blocks and not broken bricks or tiles		
<u>Brickwork</u>		
All brickwork to comply with SABS 0164		
All bricks to have compressive strength of 7Mpa and are to be at least six (6) weeks old before being built into the walls	dā.	
Sand to comply with SABS 1090		
Mortar mix to be 1:6 with 10 litres of lime added per sack of cement. Alternatively masonry cement may be used		
<u>Joints</u>		
Brickwork to be provided with flush joints		
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	All longitudinal joints to be 10mm wide and solidly caulked with mortar. Failure to comply will mean mandatory demolition			
	<u>EARTHWORKS</u>			
	BULK EXCAVATION, FILLING, ETC			
	Open face excavation in earth over sloping site			
1	Open face excavation m	543		
	Risk of collapse of excavations			
2	Sides of bulk excavations not exceeding 1,5m deep m	572		
	Extra over all excavations for carting away			
3	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor m	543		
	EXCAVATIONS			
	Excavation in earth not exceeding 2m deep			
4	Trenches m	3 121		
	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	3 121		
	Risk of collapse of excavations			
6	Sides of trench and hole excavations not exceeding 1,5m deep m	2 402		
	Keeping excavations free of water			
7	Keeping excavations free of all water other than subterranean water	Item		
	FILLING ETC			
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	Earth filling of G7 material supplied by the contractor, compacted to 95% Mod AASHTO density				
8	Under floors, steps, pavings, etc	m3	38		
	Prescribed density tests on filling				
9	"Mod. AASHTO Density" test	No	48		
	SOIL POISONING	1			
	Soil insecticide to be executed with SABS compliance by a firm of specialists under a 5 year guarantee				
10	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	757		
11	To bottoms and sides of trenches etc	m2	563		
	Weedkiller mixed in accordance to supplier's specifications				
12	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	757		
13	To bottoms and sides of trenches etc	m2	563		
	CONCRETE, FORMWORK & REINFORCEMENT				
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	15MPa/19mm concrete				
14	Surface blinding under footings and bases	m3	8		
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	30MPa/19mm concrete		e.		
15	Ground beams	m3	113		
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	TEST CUBES					
16	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	18			
	CONCRETE SUNDRIES					
	Stripping back head of concrete pile for a height not exceeding 300mm to expose reinforcement including trimming to defined level and bending reinforcement as necessary for casting into pile cap					
17	250mm Diameter pile	No	115			
	Sundries					
18	Carefully drill 150mm deep into existing reinforced concrete ground beam for fixing of 16mm diameter reinforcement bar (rebar e/m)	No	124			
19	400mm Long x 16mm diameter high tensile reinforcement bar with 150mm length fixed to existing ground beam with "Epoxy Epidemix 372" or equivalent approved and the other cast into concrete (holes e/m)	No	62			
20	400mm Long x 16mm diameter high tensile reinforcement bar with 150mm length fixed to existing ground beam with "Epoxy Epidemix 372" or equivalent approved and the other end built into brickwork (holes					
	e/m)	No	62			
	REINFORCEMENT					
	Mild steel reinforcement to structural concrete work					
21	10mm Diameter bars	t	2.88			
	High tensile steel reinforcement to structural concrete work					
22	12mm Diameter bars	t	3.45			
23	16mm Diameter bars	t	5.18			
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	CONCRETE, FORMWORK AND REINFORCEMENT			
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			
	SUPPLEMENTARY PREAMBLES			
	Cost of tests			
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests 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)			
	Breeze concrete			
	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			
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<u>Formwork</u>		
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 reuse		
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"		
Concrete curing before propping		
All concrete will be allowed to cure for 14 days before allowing for propping, The contractor will not prop until they have submitted concrete tests result to the Engineers for approval		
Concrete mixing		
All concrete to be in line with SABS1200		
All site mixed concrete to have mix design approved and tested before casting		
All concrete to be vibrated		
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CONCRETE, FORMWORK & REINFORCEMENT		

	No 50/50 day assessed 1 1 1/2 1/2	1	T		II	ı
	No 50/50 slag cement may be used without the Engineer's approval					
	Reinforcement					
	Reinforcement steel to be supported on spacer blocks and not broken bricks or tiles					
	Propping of structures					
	Propping will be approved by the Engineers prior to casting					
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES					
	30MPa/19mm concrete					
1	Surface beds cast in panels on waterproofing	m3	91			
2	Extra over for concrete thickening in surface beds size approximately 100mm deep, 300mm at top and tapering both sides to 200mm at bottom, including all excavations, cart away, etc.	m	14			
	REINFORCED CONCRETE					
	30MPa/19mm concrete					
3	Slabs including beams and inverted beams	m3	10			
	TEST CUBES					
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.	No	30			
	CONCRETE SUNDRIES					
	Finishing top surfaces of concrete smooth with a wood float/steel trowel					
5	Surface beds, slabs, etc	m2	757			
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ĺ	Finishing top surfaces of concrete smooth with a power	1	1		
	float				
6	Surface beds, slabs, etc	m2	77		
	MOVEMENT JOINTS ETC				
	Saw cut joints				
7	5 x 10mm Saw cut joints in top of concrete	m	125		
	Joint forming material in movement joints:				
8	10mm Bitumen impregnated fibre board not exceeding 300mm wide	m	407		
	SMOOTH FORMWORK (DEGREE OF ACCURACY II)				
	Smooth formwork to soffits				
9	Slabs propped up exceeding 3,5m and not exceeding 6,5m high	m2	77		
	MOVEMENT JOINTS ETC				
	"Abe Construction Chemicals"				
10	225mm Wide two (2) layers three (3) ply malthoid between horizontal concrete and brickwork	m	47		
	REINFORCEMENT				
	Fabric reinforcement				
11	Steeledale Mesh standard square fabric mesh, nominal mass 1,0 kg/m² with nominal 5,6mm thick wires and 200 x 200mm pitch (Ref 100), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.	m2	757		
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Steeledale Mesh standard square mass 3,95kg/m² with nominal 5,6m 200 x 200mm pitch (Ref 395), com 1024/2006 requirements, in sheets	nm thick wires and nellying with SANS				
		m2	77		
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	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			
	SUPPLEMENTARY PREAMBLES			
	BRICKWORK			
	Sizes in descriptions			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	Linings to concrete			
	Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties			
	Hollow walls etc			
	Descriptions of hollow walls shall be deemed to include 250mm long stainless steel or galvanized wire ties three (3) every square meter			
	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			
	Brickwork			
	All brickwork to comply with SABS 0164			
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	All bricks to have compressive strength of 7Mpa and are to be at least six (6) weeks old before being built into the walls Sand to comply with SABS 1090 Mortar mix to be 1:6 with 10 litres of lime added per sack of cement. Alternatively masonry cement may be used Joints Brickwork to be provided with flush joints All longitudinal joints to be 10mm wide and solidly caulked with mortar. Failure to comply will mean mandatory demolition SAMPLES Samples of all masonry building units, shall consist of a minimum of 6 units BRICKWORK SUPERSTRUCTURE Brickwork of NFX bricks (7 MPa nominal compressive strength) in class II mortar				
1	Half brick walls	m2	33		
2	One brick walls	m2	994		
3	Brick-on-edge walls	m2	136		
4	One and half brick walls	m2	148		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
5	75mm Wide reinforcement built in horizontally	m	256		
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6	150mm Wide reinforcement built in horizontally	m	8,089			
7	225mm Wide reinforcement built in horizontally	m	71			
	"Allied Concrete" prestressed fabricated lintels					
8	110 x 70mm Lintels in lengths not exceeding 3m	m	28			
	Turning pieces					
9	230mm Wide turning pieces to lintels etc	m	26			
	Holes:					
10	Leave or form opening through one brickwall for pipe n.e 100mm diameter	No	11			
11	Leave or form opening through one brickwall for pipe exceeding 100 and not exceeding 200mm diameter	No	7			
	Galvanised hoop iron cramps, ties, etc					
12	Drill 26mm diameter hole	No	12			
13	$100 \times 150 \times 8$ mm Thick flat bars twice drilled for anchor bolts (bolts and holes e/m)	No	24			
14	125 x 75 x 8mm Angle iron	m	15			
15	24mm x 300mm Chemical anchors	No	12			
	FACE BRICKWORK					
	Face clay face brick, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zone 1-2 (PC Amount R10 000-00/1000 VAT excl. supplied and delivered to site)					
16	Extra over brickwork for face brickwork	m2	604			
17	Half brick wall faced both sides	1112	004			
''	Hall blick wall laced boll sides	m2	6			
18	Extra over brickwork for brick-on-edge header course lintel pointed on face and 110mm soffit	m	36			
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19	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	11			
20	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	7			
	Brick-on-edge header course coping, sills, etc of (PC Amount R10 000-00/1000 VAT excl. supplied and delivered to site) face bricks pointed with recessed joints on all exposed faces					
21	230mm Wide sill set sloping and slightly projecting	m	12			
22	Coping on top of one brick wall					
		m	28			
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	SECTION NO.3					
	BILL NO.4					
	WATERPROOFING					
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"					
	DAMPPROOFING OF WALLS AND FLOORS					
	Gundle Gunplas DPC 250 Blue Black damp proof course in walls to Agrement Certificate 2001/284 laid with minimum 150mm overlaps.					
1	In walls	m2	74			
	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.					
2	Under surface beds	m2	757			
	JOINT SEALANTS, ETC					
	Silicone sealing compound including backing cord, bond breaker, primer, etc					
3	10 x 50mm In saw cut joints including raking out of expansion joint filler as necessary	m	125			
4	10 x 20mm In isolation joints including raking out of expansion joint filler as necessary					
		m	407			
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	Bill No. 4 WATERPROOFING					

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BILL NO.5			
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For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			
SUPPLEMENTARY PREAMBLES			
Particle board:			
Particle board shall comply with the following specifications:			
a) SABS 1300 Particle board: exterior and flooring type			
b) SABS 1301 Particle board: interior type			
Joinery:			
Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc			
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
Decorative laminate finish:			
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish			
<u>SKIRTINGS</u>			
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	Wrought meranti				I
1	19 x 70mm Skirting nailed to wall at 400mm cc with 50mm steel nails and including 19mm quarter round nailed to skirting with 25mm headless nails at 300mm centres maximum with all nail heads filled and finished flush				
		m	476		
	DOORS, ETC				
	40mm Semi-solid core interior door with masonite cladding both sides suitable for painting				
2	Door size 900 x 2100mm high (D6)	No	1		
3	Door size 813 x 2100mm high cut 100mm at bottom (D5)	No	6		
		110	J		
	40mm Solid core flush panel doors with masonite veneer hung to steel frames				
4	Door size 813 x 2068mm high (D1,D2)	No	10		
_		140	10		
5	Door size 813 x 2100mm high (D4)	No	2		
6	Double door 1369 x 2040mm high, with two equal leaves, each leaf with rebated meeting edges (D7)	No	1		
7	Double door 1510 x 2100mm high, with two equal leaves, each with rebated meeting edges (D3)				
		No	3		
	SUNDRIES				
8	Cut opening in 40mm solid door for louvre opening 450 x 300mm high (D6)	No	1		
9	Cut opening in 40mm solid door for louvre opening 620 x 400mm high (D2,D4)	No	10		
				9	
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	IRONMONGERY				
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"				
	SUPPLEMENTARY PREAMBLES				
	<u>Descriptions</u>				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs				
	"EN-SUITE" LOCKS				
	TYPE 1 - (D1,D2,D8-PARTITION)				
1	Dormakaba Tubular Stainless Steel 155mm long spring loaded lever handle in Stainless Steel finish (Code: TH120BP cylinder).	No	24		
2	Dormakaba Stainless Steel cylinder sash lock (Code: D036S) with 57mm backset.	No	12		
3	Dormakaba Satin Nickel 63mm - 31.5 + 31.5mm Grand master keyed E-SP 5 Pin Knob cylinder (Code: DKC206301GMK).				
	·	No	12		
4	Dormakaba Nickel Plated floor mounted door stop (Code: DDS-NP-018), size 24 x 45mm fixed in				
	accordance with the manufacturer's recommendations.	No	12		
				_	
	Section No. 3 BUILDINGS Bill No. 6 IRONMONGERY			F	

		1	i i		î
	TYPE 2 (D4)				
5	Dormakaba mechanical hold open TS 91B HO-SL cam action slide channel door closer (Code: TS 91B HO-SL) with a closing force of EN 3 for maximum 950mm wide door. Door closer compliant with EN 1154, and CERTI FIRE approved (Certificate No.CF 119) for door types ITT 120, MM/IMM 240 (ISO 9001)	No	2		
6	Dormakaba Tubular straight Stainless Steel bolt through pull handle (Code: DPH210BT), size 30mm diameter x 300mm long.	No	2		
7	Dormakaba grade 430 Stainless Steel plate (Code: DPP-430-BL), size 150 x 300 x 1,2mm with 6 (six) counter-sunk fixing holes plugged and screwed with aluminium screws.	No	2		
8	Dormakaba Stainless Steel cylinder deadlock (Code: D037D) with 57mm backset.	No	2		
9	Dormakaba Brass 40.5mm grand master keyed E-SP 5 pin single cylinder (Code: DSC204101GMK).	No	2		
10	Dormakaba 52mm diameter Stainless Steel cylinder escutcheon (Code: DCE-002).	No	2		
11	Dormakaba Nickel Plated floor mounted door stop (Code: DDS-NP-018), size 24 x 45mm fixed in accordance with the manufacturer's recommendations.	No	2		
12	Dormakaba "Male " engraved grade 304 Stainless Steel sign (Code: DSS-130), size 150 x 150 x 1,2mm with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	1		
13	Dormakaba "Female" engraved grade 304 Stainless Steel sign (Code: DSS-131), size 150 x 150 x 1,2mm with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	1		
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1	TYPE 3 - (D5)	1	Ĩ	1	l I	
	111 E 0 - (DO)					
14	Dormakaba grade 430 Stainless Steel plate (Code: DPP-430-BL), size 150 x 300 x 1,2mm with 6 (six) counter-sunk fixing holes plugged and screwed with aluminium screws.	No	6	2		
15	Dormakaba Tubular straight Stainless Steel bolt through pull handle (Code: DPH301C) fixed on grade 430 Stainless Steel plate, size 150 x 300 x 1,2mm with 6 (six) counter-sunk fixing holes plugged and screwed with aluminium screws.					
		No	6			
16	Dormakaba M4 patent male/female fixing screws	No	36			
17	Dormakaba Stainless Steel bathroom deadlock (Code: DMWC-SS-008) with 55mm backset.	No	6			
18	Dormakaba 52 x 52mm Stainless Steel square bathroom WC bolt set (Code: DWC-006).	No	6			
19	Dormakaba Stainless Steel hat and coat hook with rubber buffer (Code: DHC-SS-031), size 70 x 25 x 80mm fixed in accordance with the manufacturer's recommendations.	No	6			
	TYPE 4 (D6)					
20	Dormakaba non hold open code TS 73V PA DC-PAB-SL rack and pinion projecting arm door closer with a closing force of EN 2-4 for maximum 1 100mm wide door.	No	1			
21	Dormakaba Tubular straight Stainless Steel bolt through pull handle (Code: DPH301BBT), size 25mm diameter x 325mm long.	No	2			
22	Dormakaba M4 patent male/female fixing screws	No	12			
23	Dormakaba Stainless Steel bathroom deadlock (Code: D032D) with 57mm backset.	No	1			
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24	Dormakaba 52 x 52mm Stainless Steel square bathroom WC bolt set (Code: DWC-006).	No	1		
25	Dormakaba Nickel Plated floor mounted door stop (Code: DDS-NP-018), size 24 x 45mm fixed in accordance with the manufacturer's recommendations.	No	1		
26	Dormakaba grade 430 Stainless kick plate (Code: DKP-430-SF), size 300 x 900 x 1,2mm with 12 (twelve) counter-sunk fixing holes plugged and screwed with aluminium screws.	No	2		
27	Dormakaba "Male/Female" engraved grade 304 Stainless Steel sign (Code: DSS-132MF), size 150 x 150 x 1,2mm with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	1		
28	Dormakaba "Disabled" engraved grade 304 Stainless Steel sign (Code: DSS-133), size 150 x 150 x 1,2mm with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	1		
	TYPE 5 - (D7)				
29	Dormakaba mechanical hold open TS 91B cam action slide channel door closer (Code: TS 91B HO) with a closing force of EN 3 for maximum 950mm wide door.	No	2		
30	Dormakaba surface mounted door coordinator (Code: SR392), fitted in accordance with manufacturer's recommendations.	No	1		
31	Dormakaba Tubular straight Stainless Steel bolt through pull handle (Code: DPH210BT), size 30mm diameter x 300mm long.	No	2		
32	Dormakaba grade 430 Stainless Steel plate (Code: DPP-430-BL), size 150 x 300 x 1,2mm with 6 (six) counter-sunk fixing holes plugged and screwed with aluminium screws.				
		No	2		
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33	Dormakaba Stainless Steel cylinder deadlock (Code: D037D) with 57mm backset.	No	1		
34	Dormakaba Satin Nickel 63mm - 31.5 + 31.5mm Grand master keyed E-SP 5 Pin double cylinder (Code: DDC206301GMK).	No	1		
		No	'1		
35	Dormakaba 52mm diameter Stainless Steel cylinder escutcheon (Code: DCE-002).	No	1		
36	Dormakaba Nickel Plated Rebate conversion kit for Euro Profile locks (Code: D038R).				
		No	1		
37	Dormakaba Satin Chrome flush bolt with heel and let set into concrete (Code: DFB-SC-180), size 48 x 19 x 153mm fixed in accordance with the manufacturer's recommendations.	No	1		
38	Dormakaba Satin Chrome flush bolt with heel and let set into metal (Code: DFB-SC-180), size 48 x 19 x 153mm				
	fixed in accordance with the manufacturer's recommendations.	No	1		
39	Dormakaba Stainless Steel dust proof strike (Code: DPS-SS-032), size 38 x 19mm fixed in accordance with the manufacturer's recommendations.	No	1		
40	Dormakaba Nickel Plated floor mounted door stop (Code: DDS-NP-018), size 24 x 45mm fixed in accordance with the manufacturer's recommendations.				
		No	2		
	TYPE 6 (D3,D3 ON PARTITION)				
41	Dormakaba Tubular Stainless Steel 155mm long spring loaded lever handle in Stainless Steel finish (Code: TH120BP cylinder).	No	8		
42	Dormakaba Stainless Steel cylinder sash lock (Code: D036S) with 57mm backset.	No	4		
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43	Dormakaba Satin Nickel 63mm - 31.5 + 31.5mm Grand master keyed E-SP 5 Pin double cylinder (Code: DDC206301GMK).				
		No	4		
44	Dormakaba Nickel Plated Rebate conversion kit for Euro Profile locks (Code: D038R).				
		No	4		
45	Dormakaba Satin Chrome flush bolt with heel and let set into concrete (Code: DFB-SC-180), size 48 x 19 x 153mm fixed in accordance with the manufacturer's recommendations.	No	4		
			1		
46	Dormakaba Satin Chrome flush bolt with heel and let set into metal (Code: DFB-SC-180), size 48 x 19 x 153mm fixed in accordance with the manufacturer's				
	recommendations.	No	4		
47	Dormakaba Nickel Plated Rebate conversion kit for Euro Profile locks (Code: D038R).				
		No	4		
			1		
48	Dormakaba Stainless Steel dust proof strike (Code:		1		
	DPS-SS-032), size 38 x 19mm fixed in accordance with		- 1		
	the manufacturer's recommendations.	No	4		
49	Dormakaba Nickel Plated floor mounted door stop (Code: DDS-NP-018), size 24 x 45mm fixed in				
	accordance with the manufacturer's recommendations.				
		No	8		
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	TYPE 7 - (ALO1,AL02)				
50	Dormakaba mechanical hold open TS 91B cam action				
	slide channel door closer (Code: TS 91B HO) with a		1		1
	closing force of EN 3 for maximum 950mm wide door.				1
		No	4		
			4		
51	Dormakaba surface mounted door coordinator (Code:				
	SR392), fitted in accordance with manufacturer's		- 1		
	recommendations.	No	2		
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52	Dormakaba Tubular offset Stainless Steel back-to-back pull handle (Code: DPH217BTB), size 25mm diameter x 590mm long.	No	8			
53	Dormakaba Stainless Steel narrow stile dead lock operating with european profile cylinder (Code: D02735) with 35mm backset.	No	2			
54	Dormakaba Satin Nickel 63mm - 31.5 + 31.5mm Grand master keyed E-SP 5 Pin double cylinder (Code: DDC206301GMK).					
		No	2			
55	Dormakaba 30 x 64mm Stainless Steel narrow style cylinder escutcheon (Code: DCE-105).	No	4			
56	Dormakaba Stainless Steel dust proof strike (Code: DPS-SS-032), size 38 x 19mm fixed in accordance with the manufacturer's recommendations.				Ţ.	
		No	2			
57	Dormakaba Nickel Plated floor mounted door stop (Code: DDS-NP-018), size 24 x 45mm fixed in accordance with the manufacturer's recommendations.	No	4			
	BATHROOM FITTINGS					
	"Kimberly Clark"					
58	MR2 Stainless Steel Toilet Tissue Dispenser stainless					
30	steel (Code: SA426130), overall size 130 x 135 x 256mm high, installed by a Kimberly Clark® installation team.	No	7			
59	KIMBERLY-CLARK PROFESSIONAL* Electronic Foam Soap and Sanitiser Dispenser colour White (Code:					
	U9214700), overall size 190 x 290 x 100mm high, installed by a Kimberly Clark® installation team.	No	3			
60	Stainless Steel Disposer (Code: SA426135), overall size					
	345 x 290 x 390mm high, installed by a Kimberly Clark® installation team.	No	3			
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1	"Franke"	Ĩ		1	1	
61	Franke HF2400HD 1,2/1,5mm thick satin finished stainless steel automatic hands free hand dryer (Code: 2500001), size 280 x 207 x 245mm high with 2 vandal proof lock screws and key wrench, plugged and screwed to the wall with stainless steel screws, 200 W motor connected to 230/240 volt power supply. With 5 year warranty.	No	3			
62	Franke CNTX750 Grade 304 18/10 stainless steel 32mm diameter straight grab rail with Franke fine grip (Code: 2510006) 750mm x 95mm deep, plugged and screwed to the wall with stainless steel screws.	No	1			
63	Franke CNTX21 Grade 304 18/10 stainless steel 32mm diameter angle bar with Franke fine grip (Code:	NO	'			
	2510008), size 415 x 415 x 95mm deep, plugged and screwed to the wall with stainless steel screws.	No	1			
	"Servest"					
64	Servest Hygiene Ocean Femmé Sanitary Bin (Code: DIS-BINNS-005), overall size 180 x 520 x 345mm deep, plugged and screwed to wall with stainless steel screws.	No	5			
	SUNDRIES	I				
	"Emseal"					
65	Anodised aluminium cover strip fixed over expansion joints in floors (PC Amount R75-00/m Vat excl. supplied)	m	5			
66	Anodised aluminium edge trim fixed over tile joints in floors (PC Amount R75-00/m Vat excl. supplied)	m	2			
	DOOR GRILLES					
						-
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	"Trox Technik" natural anodised aluminium finished louvres				
67	Trox or similar approved natural aluminium door louvre size 450 x 300mm high (D6)				
		No	1		
68	Trox or similar approved natural aluminium door louvre size 620 x 400mm high (D2,D4)				
		No	10		
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	BILL NO.7				
	METALWORK				
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"				
	SUPPLEMENTARY PREAMBLES				
	<u>Descriptions</u>				
	Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described				
	<u>Drawings</u>				
	Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc				
	<u>Drawings</u>				
	Tenderers are referred to architect's drawings annexed to these bills of quantities for full details of windows, doors, etc				
	Pricing.				
	All window prices should include alluminium louvres as shown				
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	General				
	Workshop drawings to be approved by the architect before manufacture				
	SUPPORT ANGLES				
it.	Welded columns in single lengths with flat section base, top, bearer and connection plates bolted to concrete				
1	Two (2) x 150 x 100 x 10kg/m Hot dipped galvanised angle section welded back to back laid in brickwork as lintels above openings	m	13		
	PRESSED STEEL DOOR FRAMES				
	1,2mm Double rebated frames suitable for half brick walls				
2	Frame for door size 813 x 2068mm high (D2)	No	2		
3	Frame for door size 813 x 2100mm high cut 100mm short at the bottom (D5)	No	6		
	1,2mm Double rebated frames suitable for one brick walls				
4	Frame for door size 813 x 2068mm high (D1,D2)	No	8		
5	Frame for door size 813 x 2100mm high (D4)	No	2		
6	Frame for door size 900 x 2100mm high (D6)	No	1		
7	Frame for door size 1369 x 2040mm high (D7)	No	1		
8	Frame for door size 1510 x 2100mm high (D3)	No	_ 1		
9	Frame for door size 1510 x 2100mm high set in created openings (openings e/m) (D3)	No	2		
	ALUMINIUM WINDOWS, DOORS, ETC.				
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	Purpose made aluminium doors, sidelights and fanlights glazed with laminated safety glass and plugged to brickwork or concrete					
10	Anodized aluminium window 600 x 900mm high (W01) (PC Amount R1 500-00 each VAT excl. supplied, delivered and installed on site by an approved					
	specialist)	No	8			
11	Anodized aluminium window 900 x 1200mm high (W02) (PC Amount R2 000-00 each VAT excl. supplied, delivered and installed on site by an approved specialist)					
		No	12			
12	Purpose made aluminium window size 600 x 3350mm high (AL04) (PC Amount R6 100-00 each VAT excl. supplied, delivered and installed on site by an approved		44		e	
	specialist)	No	14			
13	Purpose made aluminium window size 4410 x 3005mm high (AL05) (PC Amount R34 700-00 each VAT excl. supplied, delivered and installed on site by an approved	No	1			
	specialist)	NO	1			
14	Purpose made aluminium door size 3930 x 3605mm high inclusive of preparation of doors for ironmongery (e/m) (AL01) (PC Amount R44 200-00 each VAT excl. supplied, delivered and installed on site by an approved					
	specialist)	No	1			
15	Purpose made aluminium door size 4470 x 3605mm high inclusive of preparation of doors for ironmongery (e/m) (AL02) (PC Amount R52 700-00 each VAT excl. supplied, delivered and installed on site by an approved					
	specialist)	No	1		1	
16	Purpose made aluminium window size 5232 x 3828mm high (AL03) (PC Amount R54 300-00 each VAT excl. supplied, delivered and installed on site by an approved					
	specialist)	No	1			
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	BILL NO.8				
	PLASTERING				
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"				
	SUPPLEMENTARY PREAMBLES				
	Plastering of concrete soffits				
	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.				
	SCREEDS				
	Screeds on concrete				
1	20mm Thick on floors and landings	n2	132		
2	25mm Thick on floors and landings	m2	632		
	Granolithic Screeds				
3	30mm Thick on floors and landings	m2	1		
4	Grano skirting 75mm high	m	4		
	INTERNAL PLASTER				
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	Cement plaster on brickwork			1		F
5	On walls		m2	1,653	E1	
6	On walls in patches		m2	6		
7	On narrow widths		m2	23		
	EXTERNAL PLASTER					
	Cement plaster on brickwork					
8	On walls in patches		m2	6		
			2			_
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	BILL NO.9				
	TILING				
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"				
	WALL TILING				
	300 x 600 x 11,5mm Porcelain tiles flush pointed with tinted jointing compound on brickwork including cement (PC R250,00/m2 Vat excl. supplied)				
1	On walls	m2	214		
2	On narrow widths, etc.	m2	4		
3	Fair exposed cutting and fitting around pipe not exceeding 100mm diameter	No	11		
4	Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	7		
5	240 x 240 x 11,5mm Terracotta ceramic tiles flush pointed with tinted jointing compound on brickwork including cement (PC R300-00/m2 Vat excl. supplied) External window sills formed of cut tiles to size 110mm	at)	10 11		
	wide	m	17		
	FLOOR TILING				
190					
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	600 x 600 x 11,5mm Non-slip porcelain floor tiles (PC R250-00/m2 VAT excl supplied) fixed with Ceresit Tylon adhesive to screeds (screeds elsewhere) with straight joints in both direction flush pointed with Ceresit Tylon 33 tinted jointing compound					
6	On floors and landings	m2	132			
7	Skirting of 600 x 150mm high cut tile	m	64			
	EDGES, ETC.					
	Sundries					
8	Aluminium edge strip on top of cut skirting (PC Amount R40-00/m Vat excl. supplied and delivered to site)					
		m	64	F		
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	BILL NO.10			
	<u>GLAZING</u>			
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			
	MIRRORS, ETC			
	6mm Silvered float glass copper backed mirrors with polished edges, holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete			
1	Mirror 500 x 900mm high with four (4) screws No	9		
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	GLAZING			

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BILL NO.11			
PAINTWORK			
For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			
PREPARATORY WORK TO EXISTING WORK			
Previously painted plastered surfaces			
Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth			
Previously painted metal surfaces			
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal			
Previously painted wood surfaces			
Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth			
PAINTWORK ETC TO NEW WORK			
ON FLOATED PLASTER			
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	Plascon Professional Superior Matt to interior new cement plaster.				
	Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with two coat Professional Plaster Primer (PP700) with an overcoating time of 16 hours and finish with two coats Professional Superior Matt (PEM 950) with 2 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.				
	 Environment: C1 - inland Topcoat: Professional Superior Matt Number of coats of topcoat: two coats Overcoating time for topcoat: 2,00 hour Primer/Base coat: Professional Plaster Primer Overcoating time for primer/base coat: 16,00 hour Specification document: NW107t. 				
	On internal walls	m2	1,459		
	ON METAL				
	Duragloss 100 Enamel long oil alkyd paint to interior shop primed mild steel. Surface to be clean, dry and rust free. Prime surface with one coat Dulux Corrocote 1 (Code: D193-0839) with an overcoating time of 4 hours, undercoat with one coat Dulux Universal Undercoat (Code: D196-0763) with an overcoating time of 18 hours and finish with two coats Duragloss 100 Enamel (Code: M371-0734) with an overcoating time of 18 hours.				
2	On door frames	0	45		
		m2	45		
	ON WOOD				
				l l	
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	Carried to Collection Section No. 3			R	_
	BUILDINGS Bill No. 11				
	PAINTWORK				

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	Plascon Professional Eggshell Enamel to interior new wood.Surface to be dry, sound and clean. Wash knots				
	and resinous areas with Lacquer Thinners (ILS 1) and				
	coat with Woodcare Knot Seal (PK 2) and apply one				
	coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content,				
	measured with a Doser Hygrometer (or equivalent), of		1		
	BD 2 scale (A1-A5) < 14% or less. Prime with one coat Professional Wood Primer (PP 800) with an overcoating				
	time of 16 hours and finish with two coats Professional				
	Eggshell Enamel (PSB 700) with 16 hours drying time between coats, for a maintenance cycle of 5 years in a				
	C1 - inland environment.				
3	On doors	m2	109		
	Plascon Woodcare Coloured Varnish to interior new wood.Surface to be dry, sound and clean. Wash knots		1		
	and resinous areas with Lacquer Thinners (ILS 1) and				
	coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1),				
	overcoated within 48 hours with a moisture content,				
	measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat				
	Woodcare Coloured Varnish (VSN) with an overcoating				
	time of 16 hours and finish with two coats Woodcare Coloured Varnish (VSN) with 16 hours drying time				
	between coats, for a maintenance cycle of 3 years in a				
	C1 - inland environment.				
4	On skirtings, rails, etc. n.e exceeding 300mm girth	m	476		
	PAINTWORK ETC TO PREVIOUSLY				
	PAINTED WORK				
	ON FLOATED PLASTER				
			1		
			1		
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	Carried to Collection			R	_
	Section No. 3 BUILDINGS				
	Bill No. 11				
	PAINTWORK				

	Plascon Professional Superior Matt to interior previously painted cement plaster.				
	Surface to be assessed and the appropriate surface preparation clauses selected for remedial procedure. Prime with two coats Professional Plaster Primer (PP700) with an overcoating time of 16 hours and finish with two coats Professional Super Matt (PEM 900) with 1 hour drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.				
	 Environment: C1 - inland Topcoat: Professional Super Matt Number of coats of topcoat: two coats Overcoating time for topcoat: 1,00 hour Primer/Base coat: Professional Plaster Primer Overcoating time for primer/base coat: 16,00 hour Specification document: RD115t. 				
5	On internal walls	m2	145		
	Plascon Professional Superior Matt to exterior previously painted cement plaster.				
	Surface to be assessed and the appropriate surface preparation clauses selected for remedial procedure. Prime with one coat Professional Plaster Primer (PP700) with an overcoating time of 16 hours and finish with two coats Professional Superior Matt (PEM 950) with 2 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.				
	 Environment: C1 - inland Topcoat: Professional Superior Matt Number of coats of topcoat: two coats Overcoating time for topcoat: 2,00 hour Primer/Base coat: Professional Plaster Primer Overcoating time for primer/base coat: 16,00 hour Specification document: RD107t. 				
6	On external walls	m2	157		
				B	
	Section No. 3 BUILDINGS Bill No. 11 PAINTWORK	5		R	

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Section No. 3		
BUILDINGS		
Bill No. 11	= 1	
PAINTWORK		
COLLECTION		
Total Brought Forward from Page No.	Page No 75 76 77 78	Amount
Carried Forward to Summary of Section No. 3 Section No. 3 BUILDINGS Bill No. 11 PAINTWORK		R

	Section No. 3					
	BUILDINGS					
	SECTION SUMMARY - BUILD	DINGS				
Bill No			Page No		Amount	
1	FOUNDATIONS		38			221
2	CONCRETE, FORMWORK &	REINFORCEMENT	44			
3	MASONRY		49			
4	WATERPROOFING		50			
5	CARPENTRY & JOINERY		53			
6	IRONMONGERY		63			
7	METALWORK		67			
8	PLASTERING		70			
9	TILING		73			_
10	GLAZING		74			_
11	PAINTWORK		79			
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		Carried to Final Summary		R		
	Section No. 3 BUILDINGS					=
			e e			

SECTION 4: PLUMBING & DRAINAGE

ltem No			Quantity	Rate	Amount
	SECTION NO. 4				
	BILL NO. 1				
	SANITARY FITTINGS ETC				
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"				
	SANITARY FITTINGS				
	<u>"Vaal"</u>			=	
1	Vaal Sanitaryware vitreous china "Hibiscus" close coupled 90 degrees outlet open rim front single flush suite complete with lids and fitments (Code 772654) complete with Jazz thermoset toilet seat (code 8531Z0)	No	6		
2	Vaal Sanitaryware Pearl Paraplegic vitreous china floor mounted paraplegic washdown suite colour White (Code: 730103WH), comprising 90° outlet pan (Code: 750202WH) and matching 9 litre cistern, including lid, fitments and purpose-made chromium plated side flush lever (Code: 7100LLWH).	No	1		
3	Vaal Sanitaryware Hibiscus vitreous china wall hung basin colour White (Code: 702303WH) with Classic floor mounted pedestal (Code: 715000WH), overall size 510 x 405mm with one taphole including integrated overflow and chainstay hole(basin waste text)(basin waste code prefix)(basin waste code)(basin waste code suffix), bolted to wall with 2No.10mm bolts (Code: 8448Z000) and sealed with silicone sealant where basin meets wall.	No	6		
4	Vaal Sanitaryware 600 x 385 x 380mm Lavatera top inlet white vitreous china wall mounted urinal (Code: 705426WH) including 38mm chromium plated domical grating and chromium plated top inlet spreader (Code: 8542Z000), flush valve (by others - Recommended: Cobra FJ6000), fixed on and including two hanger brackets (Code: 8127Z000).	No	3		
	Carried to Collection Section No. 4 PLUMBING & DRAINAGE Bill No. 1 SANITARY FITTINGS			R	

	"Franke"		Ī			
5	Franke Cascade Model CDX651 Grade 304 18/10 polished stainless steel single bowl a overall size 925 x 500mm with one 343 x 410 x 171mm deep bowl and one 160 x 280 x 139mm deep bowl, fitted onto cupboard (elsewhere specified).					
		No	2			
	WASTE UNIONS ETC					
	"Cobra Watertech"					
6	"Cobra Ref. 316" sink waste with 70mm diameter flange, 45mm long shank, backnut, plug and chain	No	2			
7	Cobra Watertech 32mm chrome plated anti-theft plug with spindle (Code: 309-32).	No	6			
8	Cobra Watertech 32mm chrome plated slotted basin waste union (no chain or stay) (Code: 303)	No	6			
	TRAPS ETC					
	"Marley"					
9	40mm Deep seal "P" or "S" trap	No	2			
	"Cobra Watertech"					
10	Cobra Watertech 40mm chrome plated bottle trap (Code: 365-50) with 75mm deep re-seal, adjustable telescopic pipe and 50mm outlet.	No	9		500	
						_
	Carried to Collection Section No. 4			R		_
	PLUMBING & DRAINAGE Bill No. 1					
	SANITARY FITTINGS					

Section No. 4				1
PLUMBING & DRAINAGE				
Bill No. 1				
SANITARY FITTINGS				
COLLECTION				
Total Brought Forward from Page No.	Page No 81 82		Amount	
	51			
Carried Forward to Summary of Section No. 4		R		T
Section No. 4 PLUMBING & DRAINAGE Bill No. 1 SANITARY FITTINGS		K		

ltem No			Quantity	Rate	Amount	
	SECTION NO. 4					
	BILL NO 2					
	BILL NO. 2					
	SANITARY PLUMBING					
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"					
	SANITARY PLUMBING					
	uPVC, soil and vent pipes					
1	50mm Pipes	m	10			
2	110mm Pipes	m	17			
3	50mm Pipes laid in and including trenches not exceeding 1m deep below surface beds	m	7			
4	50mm Pipes suspended not exceeding 1m below suspension level	m	5			
5	110mm Pipes laid in and including trenches not exceeding 1m deep below surface beds	m	10			
6	110mm Pipes suspended not exceeding 1m below suspension level	m	9			
	Extra over uPVC, soil and vent pipes for fittings					
7	50mm BSP adaptor	No	9			
8	50mm Access bend	No	4			
9	50mm Access junction	No	3			
10	110mm Pan connector	No	7			
11	110mm Junction	No	2			
	Comical to Collection			5		
	Carried to Collection Section No. 4 PLUMBING & DRAINAGE Bill No. 2 SANITARY PLUMBING			R		=

12	110mm Bend	No	6		
13	110 x 50 x 110mm Reducing junction	No	1		
14	110mm Access bend	No	3		
15	110mm Access junction	No	2		
16	110 x 110 x 50mm Access reducing junction	No	1		
17	110 x 50 x 50mm Double reducing access junction	No	1		
18	110 x 50 x 50mm Double reducing junction	No	1		
19	110mm Access double junction	No	2		
20	110mm GI vent valve	No	1		
	<u>Sundries</u>				
21	Unreinforced concrete encasing to 50mm horizontal pipe	m	7		
22	Unreinforced concrete encasing to 110mm horizontal pipe	m	10		
23	Unreinforced concrete encasing to 110mm vertical bend	No	6		
24	Unreinforced concrete encasing to 110mm vertical pipe	m	2		
	Carried to Collection Section No. 4 PLUMBING & DRAINAGE Bill No. 2 SANITARY PLUMBING			R	

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PLUMBING & DRAINAGE			
Bill No. 2			
SANITARY PLUMBING			
COLLECTION			
Total Brought Forward from Page No.	Page No 84 85		Amount
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Section No. 4 PLUMBING & DRAINAGE Bill No. 2		9	
SANITARY PLUMBING			

1		Quantity	Rate	Amount	
	SECTION NO. 4				
	BILL NO. 3				
	WATER SUPPLIES				
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"				
	SUPPLEMENTARY PREAMBLES				
	"Polycop" polypropylene pipes:				
	Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated				
	Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions				
	All pipe diameters are nominal external				
	"Polylink" polypropylene pipes:				
	Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron "Supraclamp" running joints				
	Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured				
	Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double Z joint couplers				
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	Carried to Collection Section No. 4 PLUMBING & DRAINAGE Bill No. 3 WATER SUPPLIES		R		_

Item No

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	Branch tees shall include flanged and bolted joints to					
	"Polycop" branch pipes in addition and for brass					
	compression male iron to copper straight couplers					
	Reducers shall include jointing to pipes with PVC rubber					
	ring double Z joint couplers and reducers shall be of					
	sufficient overall length to accommodate same					
	3					
	All pipes shall be jointed and fixed strictly in accordance	1				
	with the manufacturer's instructions					1
						1
	All pipe diameters are nominal external					1
						1
	WATER SUPPLIES					
				1		
	The following in trenches for pipes (pipes e/m)			1		
.						
1	Excavation not exceeding 2m deep	m3	4			
ا ۾	Diale of colleges to sides of transle and hale accessible as					
2	Risk of collapse to sides of trench and hole excavations not exceeding 1,5m deep	m2	13			
	not exceeding 1,5m deep	"""				
3	Backfilling to trenches, holes, with selected materials	- 1				
-	supplied by the contractor compacted in 150mm layers			11		
	to 90% Mod AASHTO density to form fill blanket	- 1				
			- a			
		m3	1			
4	Deal-filling to transhes helps with earth filling obtained					
7	Backfilling to trenches, holes, with earth filling obtained from the excavations supplied by the contractor					
	compacted in 150mm layers to 90% Mod AASHTO	- 1				
	density to form fill blanket	m3	1			
						1
5	Backfilling to trenches, holes, with selected granular					
	supplied by the contractor materials compacted in					1
	150mm layers to 90% Mod AASHTO density to form bedding cradle					
	bedding cradie					
		m3	2			
6	Extra over all excavations for carting away					
	surplus material from excavations and/or stock piles on					
	site to a dumping site to be located by the contractor					
		m3	3			
7	Keeping excavations free of water		Item			
′	Reeping excavations free of water		ILCIII			
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	WATER SUPPLIES					
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	Class 12 black HDPE high density polyethylene pipes with and including "Plasson" compression fittings					
8	22mm Pipes laid in trenches not exceeding 1m deep (trench e/m)	m	7			
	Extra over class 12 HDPE high density polyethylene pipes for "Plasson" compression fittings				,	
9	22mm Fittings	No	4			
	Class 0 copper pipes with capillary couplings					
10	15mm Pipes	m	10			
	Extra over class 0 copper pipes for capillary fittings					
11	15mm Fittings	No	36			
	TAPS, VALVES, ETC					
	"Cobra Watertech"			9		
12	Cobra Watertech 15mm MI x FI x 50mm long extension piece (Code: 057-15).	No	4			
13	Cobra Watertech 15mm chrome plated pillar tap (Code: 503-21B) with blue indice and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412).	No	1			
14	Cobra Watertech Chrome Slimline Junior Flushmaster exposed flush valve (Code: FJS6-000), installed in accordance with the manufacturer's recommendations.	No	3			
15	Cobra Watertech Gala single lever basin mixer (Code: GA-651), manufactured in accordance with SANS 1480-9, installed in accordance with the manufacturers recommendations.	No	5			
16	Cobra Watertech 15mm angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).	No	13			
	Carried to Collection			R		_
	Section No. 4 PLUMBING & DRAINAGE					
	Bill No. 3 WATER SUPPLIES					
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17	Cobra Watertech Star 15mm chrome plated sink mixer (Code: 266-041-10) with aerated swivel spout and concealed connections, manufactured in accordance with SANS 226:2009 Type 1 (BS 5412). ELECTRIC WATER HEATERS	No	2			
	"Franke"					
	Traine					
18	Zip stainless steel 10 litre Hydroboil, size 340 x 205 x 630mm high with instant boiling water, two way tap control and under counter triple-action water conditioning system, SK3 drip tray (code: 390019) with brackets, connected to 15mm cold water supply and 220 volt 15 amp electrical power supply, plugged and screwed to wall and fitted under 1 year guarantee	No	2	D.		
	FIRE APPLIANCES ETC					
	·					
	"Chubb"					
19	9kg Dry chemical powder fire extinguisher, including standard hard wood backing plugged and backing finished with one coat dark stain and two coats clear suede polyurethane varnish	No	2			
20	"Everyway" hose reel complete with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	1	cc.		
	WATER SUPPLIES TO FIRE APPLIANCES					
	The following in trenches for pipes (pipes e/m)					
21	Excavation not exceeding 2m deep	m3	10			
22	Risk of collapse to sides of trench and hole excavations not exceeding 1,5m deep	m2	32			
23	Backfilling to trenches, holes, with selected materials obtained from excavations compacted in 150mm layers to 90% Mod AASHTO density to form fill blanket	m3	3			
			1			
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	WATER SUPPLIES					
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24	Backfilling to trenches, holes, with selected materials supplied by the contractor compacted in 150mm layers to 90% Mod AASHTO density to form fill blanket				
		m3	3		
25	Backfilling to trenches, holes, with selected granular supplied by the contractor materials compacted in 150mm layers to 90% Mod AASHTO density to form bedding cradle				
		m3	4		
26	Extra over all excavations for carting away surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	7		
27	Keeping excavations free of water		Item		
	Class 12 black HDPE high density polyethylene pipes with and including "Plasson" compression fittings				
28	32mm Pipes laid in trenches not exceeding 1m deep (trenches e/m)	m	16		
	Extra over class 12 black HDPE high density polyethylene pipes for "Plasson" compression fittings				
29	32mm Junction	No	1		
30	32mm Bend	No	2		
31	32 x 22 x 32mm Reducing junction	No	1		
	Galvanised steel pipes				
32	22mm Pipes	m	2		
	Extra over galvanised steel pipes for steel fittings				
33	22mm Fittings	No	2		
				-	
	Carried to Collectio	n		R	_
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Section No. 4 PLUMBING & DRAINAGE Bill No. 3 WATER SUPPLIES			

ı		Quantity	Rate	Amount	
	SECTION NO. 4				
	BILL NO. 4				
	SOIL DRAINAGE				
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"				
	SUPPLEMENTARY PREAMBLES				
	uPVC pipes and fittings:				
	Soil, waste and vent pipes and fittings shall be solvent weld jointed				
	uPVC pressure pipes and fittings:				
	Pipes for water supply shall be of the class stated				
	Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings				
	Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints				
	Laying, backfilling, bedding, etc. of pipes				
	Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions				
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	Section No. 4		R		_
	PLUMBING & DRAINAGE Bill No. 4				
	SOIL DRAINAGE				

Item No

	Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L: Medium-pressure pipelines LD: Sewers LE: Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB: Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB: Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding				S.	
	SOIL DRAINAGE					
	The following in trenches for pipes (pipes e/m)					
1	Excavation not exceeding 2m deep	m3	4			
2	Risk of collapse to sides of trench and hole excavations not exceeding 1,5m deep	m2	14			
3	Backfilling to trenches, holes, with selected materials obtained from excavations compacted in 150mm layers to 90% Mod AASHTO density to form fill blanket					
		m3	1			
4	Backfilling to trenches, holes, with selected materials supplied by the contractor compacted in 150mm layers to 90% Mod AASHTO density to form fill blanket					
		m3	1			
5	Backfilling to trenches, holes, with selected granular supplied by the contractor materials compacted in 150mm layers to 90% Mod AASHTO density to form bedding cradle					
		m3	2			
6	Extra over all excavations for carting away surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor					
	one to a damping one to be located by the contractor	m3	3			
7	Keeping excavations free of water		Item			
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	Carried to Collection			R		
	Section No. 4 PLUMBING & DRAINAGE Bill No. 4 SOIL DRAINAGE					

	uPVC Underground drain pipes including couplings in the running lengths				
8	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	1		
9	110mm Pipes laid in and including trenches not exceeding 1m deep (trenches e/m)	m	7		
	Extra over uPVC pipes for fittings				
10	110mm Bend	No	2		
11	110mm Junction	No	1		
	uPVC gulleys				
12	110mm Gulley not exceeding 750mm deep, incl of precast concrete sorround, excavation etc.	No	2		
	SUNDRIES			84	
13	110mm "ABC" cleaning eye end of pipe	No	1		
14	Cutting into existing 110mm drain pipe for and forming junction with 160mm pipe	No	2		
	Carried to Collection	n		R	
	Section No. 4				
	PLUMBING & DRAINAGE Bill No. 4 SOIL DRAINAGE				
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PLUMBING & DRAINAGE		
Bill No. 4		
SOIL DRAINAGE		
COLLECTION		
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Total Brought Forward from Page No.	No 93	
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PLUMBING & DRAINAGE Bill No. 4 SOIL DRAINAGE		
SOIL DRAINAGE		

	Quantity	Rate	Amount
SECTION NO. 4			
BILL NO. 5			
STORMWATER DRAINAGE		1	
For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			
SUPPLEMENTARY PREAMBLES			
uPVC pipes and fittings:			
Soil, waste and vent pipes and fittings shall be solvent weld jointed			
uPVC pressure pipes and fittings:			
Pipes for water supply shall be of the class stated			
Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings			
Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints			
Laying, backfilling, bedding, etc. of pipes			
Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions			
Carried to Collection		R	
Section No. 4 PLUMBING & DRAINAGE			
Bill No. 5 STORMWATER DRAINAGE			

Item No

	Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L: Medium-pressure pipelines LD: Sewers LE: Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB: Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB: Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding					
	SOIL DRAINAGE					
	The following in trenches for pipes (pipes e/m)					
1	Excavation not exceeding 2m deep	m3	3			
2	Risk of collapse to sides of trench and hole excavations not exceeding 1,5m deep	m2	19			
3	Keeping excavations free of water		Item			
	uPVC Underground drain pipes including couplings in the running lengths					
4	110mm Pipes laid in trenches not exceeding 1m deep (trenches e/m)					
		m	32			
	FILTER FABRIC				<u>.</u>	
	"Kaytech Engineered Fabric" or similar approved laid in strict accordance to the manufacturer's instructions					
5	"Kaymat U14" around stone filling in sub-soil drain trenches					
		m2	38			
	27mm Graded stone filling or similar approved					
6	In holes	m3	3			
	(S)					+
	Carried to Collection Section No. 4 PLUMBING & DRAINAGE Bill No. 5 STORMWATER DRAINAGE			R		+

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PLUMBING & DRAINAGE			
Bill No. 5			
STORMWATER DRAINAGE			
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Item No		Quantity	Rate	Amount	
	SECTION NO. 4				
	BILL NO. 6				
	WORK IN CONNECTION WITH SECTION BILL 2 TO 4				
	BUILDER'S WORK				
	TESTING				
1	Provide all necessary water, etc., for and test the whole of the plumbing services, sanitary fittings, pumps, etc., and in stages as deemed necessary, including chlorination, complete to the satisfaction of the architect and the local authority, replace any defective work free of charge, including any necessary re-testing and leave in perfect condition upon completion	Item			
2	Allow for testing and commisioning the whole of the plumbing services, sanitary fittings, pumps, etc., including any necessary re-setting, etc., for optimal perfomance of the entire system to duration of the contract, maintenance and guarantee period	Item			
	AS-BUILT DRAWINGS	ltein			
3	Allow for an updated set of as-built drawings to be				
	handed to the architect at completion of the contract	ltem			
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	Section No. 4 PLUMBING & DRAINAGE Bill No. 6 WORK I.C.W BILLS 2 TO 5		,		

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2	SANITARY PLUMBING	86		
3	WATER SUPPLIES	92		
4	SOIL DRAINAGE	96		
5	STORMWATER DRAINAGE	99		
6	WORK I.C.W BILLS 2 TO 5	100		
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SECTION 5: SITE WORKS

Item No		Quantity	Rate	Amount
	SECTION NO. 5			
	BILL NO. 1			
	APRONS AROUND BUILDINGS			
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			
	<u>EARTHWORKS</u>			
	Excavation in earth not exceeding 2m deep			
1	To reduce levels to final levels under aprons and storm water channels m	3 63		
2	Rip and scarify ground level to a depth of 150mm and consolidate to 93% mod. AASHTO density at -2% to 1% OMC at bottom of holes not exceeding 2350 x 2350mm wide	2 210		
	Extra over all excavations for carting away			
3	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor m	3 63		
	Earth filling of G7 material supplied by the contractor, compacted to 95% Mod AASHTO density			
4	Imported G7 material laid in 150mm thick layers and compacted to 93% mod. AASHTO density. Minimum CBR = 15%, Maximum size 2/3 of layer thickness, PI < 12 or 3 GM + 10; maximum swell 1,5% @ 100% Mod AASHTO. Grading Modules = 2,7 >/= GM >/= 0,75			
	m	2 210		
	SOIL POISONING			
	Carried to Collection		R	
	Section No. 5 SITE WORKS Bill No. 1			
	APRONS AND STORM WATER CHANNELS			

		(A x)*	1196		
	Soil insecticide to be executed with SABS compliance by a firm of specialists under a 5 year guarantee				
5	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	210		
	Weedkiller mixed in accordance to supplier's specifications				
6	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	210		
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	25 MPa/20 mm concrete				
7	Aprons cast in panels to falls	m3	21		
8	Stormwater channels cast in panels	m3	11		
	Finishing top surfaces of concrete smooth with a wood float				
9	Aprons to falls	m2	140		
	Grooves, channels, mortices, sinkings, etc. in concrete				
10	Segmental channel with radius 290mm and minimum depth of 100mm on top of concrete, incl. all excavations, cart away etc.	m	140		
	Smooth formwork to sides				
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	280		
	MOVEMENT JOINTS ETC				
	Carried to Collection			R	
	Section No. 5 SITE WORKS				
	Bill No. 1 APRONS AND STORM WATER CHANNELS				
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	"Sondor"		1			
12	Sondor Performance Foams Jointex low density (33kg/m³), cross linked, closed cell, expanded polyethylene joint former, size 75 x 10mm thick with tear off strip fitted to concrete surface with adhesive as per adhesive manufacturer's recommendation.	m	140			
	Sika Primer-3N one component epoxy polyurethane based primer for joint sealants (Sikaflex-PRO 2HP and Sikaflex 11FC), applied in accordance with the manufacturer's instructions.					
13	10 x 10mm In expansion joints including raking out of expansion joint filler as necessary	m	140			
	REINFORCEMENT					
	Fabric reinforcement					
14	Steeledale Mesh standard square fabric mesh, nominal mass 1,93 kg/m² with nominal 5,6mm thick wires and 200 x 200mm pitch (code 193), complying with SANS 1024/2006 requirements cut 1000mm wide	m	140			
15	Steeledale Mesh standard square fabric mesh, nominal mass 1,93 kg/m² with nominal 5,6mm thick wires and 200 x 200mm pitch (code 193), complying with SANS 1024/2006 requirements cut 500mm wide and shaped to suit storm water channels					
	suit stofff water charmers	m	140			
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	Section No. 5 SITE WORKS					
	Bill No. 1		1.			
	APRONS AND STORM WATER CHANNELS					

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APRONS AND STORM WATER CHANNELS				
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		Quantity	Rate	Amount
SECTION NO.5				
BILL NO.2				
PAVING				
For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"				
SUPPLEMENTARY PREAMBLES				
Materials and workmanship must be in accordance to the following SABS 1200 specifications:				
C - Site clearance D - Earthworks DM - Earthworks (Roads, subgrade) M - Roads (General) ME - Sub-base MF - Base MK - Kerb and Channeling MM - Ancillary Roadworks				
Soil poisoning and weed killer				
Soil insecticide and weed killer to be executed with SABS compliance by a firm of specialists under a 5 year guarantee under paving				
EXCAVATION, FILLING, ETC				
Open face excavation in earth over site	,			
Excavate in pickable earth to reduce ground level below paving and set aside for later use	m3	120		
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	m3	80		
Зропу	0	33		
Carried to Collection Section No. 5 SITE WORKS Bill No. 2			R	
	BILL NO.2 PAVING For Preambles refer to "Department of Public Works: Specification of material and methods to be used -PW371" SUPPLEMENTARY PREAMBLES Materials and workmanship must be in accordance to the following SABS 1200 specifications: C - Site clearance D - Earthworks DM - Earthworks (Roads, subgrade) M - Roads (General) ME - Sub-base MF - Base MK - Kerb and Channeling MM - Ancillary Roadworks Soil poisoning and weed killer Soil insecticide and weed killer to be executed with SABS compliance by a firm of specialists under a 5 year guarantee under paving EXCAVATION, FILLING, ETC Open face excavation in earth over site Excavate in pickable earth to reduce ground level below paving and set aside for later use 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) Carried to Collection Section No. 5 SITE WORKS	BILL NO.2 PAVING For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371" SUPPLEMENTARY PREAMBLES Materials and workmanship must be in accordance to the following SABS 1200 specifications: C - Site clearance D - Earthworks DM - Earthworks (Roads, subgrade) M - Roads (General) ME - Sub-base MF - Base MK - Kerb and Channeling MM - Ancillary Roadworks Soil poisoning and weed killer Soil insecticide and weed killer Soil insecticide and weed killer to be executed with SABS compliance by a firm of specialists under a 5 year guarantee under paving EXCAVATION, FILLING, ETC Open face excavation in earth over site Excavate in pickable earth to reduce ground level below paving and set aside for later use m3 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 Carried to Collection Section No. 5 SITE WORKS	SECTION NO.5 BILL NO.2 PAVING For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371" SUPPLEMENTARY PREAMBLES Materials and workmanship must be in accordance to the following SABS 1200 specifications: C - Site clearance D - Earthworks DM - Earthworks (Roads, subgrade) M - Roads (General) ME - Sub-base MF - Base MK - Kerb and Channeling MM - Ancillary Roadworks Soil poisoning and weed killer Soil insecticide and weed killer to be executed with SABS compliance by a firm of specialists under a 5 year guarantee under paving EXCAVATION, FILLING, ETC Open face excavation in earth over site Excavate in pickable earth to reduce ground level below paving and set aside for later use m3 120 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 80 Carried to Collection Section No. 5 SITE WORKS	SECTION NO.5 BILL NO.2 PAVING For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PVW371" SUPPLEMENTARY PREAMBLES Materials and workmanship must be in accordance to the following SABS 1200 specifications: C - Site clearance D - Earthworks DM - Earthworks (Roads, subgrade) M - Roads (General) ME - Sub-base MK - Kerb and Channeling MM - Ancillary Roadworks Soil poisoning and weed killer Soil insecticide and weed killer to be executed with SABS compliance by a firm of specialists under a 5 year guarantee under paving EXCAVATION, FILLING, ETC Open face excavation in earth over site Excavate in pickable earth to reduce ground level below paving and set aside for later use m3 120 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 80 Carried to Collection R Section No. 5 SITE WORKS

3	Rip and scarify ground level to a depth of 150mm and consolidate to 93% mod. AASHTO density (minimum CBR 5)	m2	400		
4	Extra over excavation for excavation in soft rock	m3	3		
5	Extra over excavation for excavation in hard rock	m3	3		
	Walkway layers				
	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 = 6, Grading Modules = 2,6 /= GM >/= 1,2				
		m3	120		
7	150mm Thick imported G6 material laid in 150mm thick layers and compacted to 96% mod. AASHTO density, PI = 6, Grading Modules = 2,6 /= GM >/= 1,2				
	-	m3	80		
8	"Mod. AASHTO Density" test	No	10		
	WALKWAYS				
	Interlocking paving				
9	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	400		
	Carried to Collection Section No. 5 SITE WORKS Bill No. 2 PAVING, ETC			R	

10	Weed-killing treatment of surface under paving etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming				
		m2	400		
11	Soil poisoning under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	400		
	Kerbs, etc				
12	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	60		
13	Extra over cutting paving blocks to fit edge	m	60		
	Sundries				
14	Mass concrete (25MPa) in 60 x 60mm edge filler strip finished smooth on top with a wood float, including all excavation, formwork, etc	m	60		
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SITE WORKS					
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SECTION 6: PROVISIONAL SUMS

ı		Quantity	Rate	Amount	
	SECTION NO. 6				
	BILL NO. 1		22.		
	PROVISIONAL AMOUNTS ETC				
	PROVISIONAL SUMS FOR SELECTED SUB- CONTRACT WORKS				
	SUPPLEMENTARY PREAMBLES				
	<u>General</u>				
	All prime cost amounts and provisional sums are net and include for delivery to site of all articles concerned				
	Sub contractors will be treated as domestic sub contractors for the purpose of this contract. They shall be selected sub contractors and the main contractor will be afforded the opportunity to reject such sub contractors prior to appointment provided reasonable justification is given				
	<u>Profit</u>				
	Where stated, the contractor may allow for profit if required				
	General attendance upon selected sub-contractors				
	The item "Attendance" which follows each provisional sum for selected sub-contractors work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the selected sub-contractors, the following:				
	The services as in clause B7 of the Preliminaries				
	Making good in all trades and cleaning down and removal of rubbish on completion				
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	Carried to Collection Section No. 6		R		=
	PROVISIONAL SUMS Bill No. 1				
	PROVISIONAL SUMS				

Item No

	<u>Preliminaries</u>		
	The contractor is referred to the Preliminaries for further amplification of "Prime Cost Amounts and Provisional Amounts"		
	Piling, etc.		
1	Provide the sum of R1 150 000-00 (one million one hundred and fifty thousand rand) for piling by Specialists	Item	1,150,000.00
2	Allow for giving every facility to Specialists as described	Item	
3	Allow for profit on above if required	Item	
	Ceilings and Partitions, etc.		
4	Provide the amount of R450 000.00 (four hundred and fifty thousand rand) for the supply and installation of		
	Ceilings by Specialists	Item	450,000.00
5	Allow for profit on above if required	Item	
6	Allow for giving every facility to Specialists as described	Item	
	Air Conditioning and Ventilation Installation:		
7	Provide the sum of R800 000-00 (eight hundred thousand rand) for HVAC Installation by Specialists	Item	800,000.00
8	Allow for giving every facility to Specialists as described		
		Item	
9	Allow for profit on above if required	Item	
	Electrical Installation		
10	Provide the sum of R900 000-00 (nine hundred thousand rand) for Electrical Installation by Specialists	Item	00,000,000
11	Allow for giving every facility to Specialists as described		
		Item	
	Section No. 6		R
	PROVISIONAL SUMS Bill No. 1		
	PROVISIONAL SUMS		

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12	Allow for profit on above if required	Item		
	Fire Detection and Protection			
13	Provide the sum of R300 000-00 (three hundred thousand rand) for Fire Detection System by Specialists	Item		300,000.00
14	Allow for giving every facility to Specialists as described			
		Item		
15	Allow for profit on above if required	Item		
	Signage			
16	Provide the sum of R20 000,00 (twenty thousand rand) for Signage Installation by Specialists	ltem		20,000.00
17	Allow for giving every facility to Specialists as described			
		Item		
18	Allow for profit on above if required	Item		
	Cold Room			
19	Provide the sum of R90 000,00 (ninety thousand rand) for the supply and installation of Cold Room by Specialists	Item		90,000.00
20	Allow for giving every facility to Specialists as described			
		Item		
21	Allow for profit on above if required	Item		
	Firm a Oakinata			
	Fume Cabinets			
22	Provide the sum of R150 000,00 (one hundred fifty thousand rand) for the supply and installation of Fume Cabinets by Specialists	Item		150,000.00
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	Section No. 6 PROVISIONAL SUMS			
	Bill No. 1 PROVISIONAL SUMS			
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23	Allow for giving every facility to Specialists as described			
		Item		
24	Allow for profit on above if required	Item		
	Floor Coverings, etc			
25	Provide the amount of R350 000.00 (three and hundred fifty thousand rand) for the supply and installation Floor Coverings by Specialists	Item		350,000,00
26	Allow for profit on above if required	Item		
27	Allow for giving every facility to Specialists as described	Item		
	CCTV, Access Control and Public Address Control and PA Address			
28	Provide the amount of R690 000.00 (six hundred and ninety thousand rand) for the supply and installation CCTV, Access control and PA System by Specialists	Item		690,000.00
29	Allow for profit on above if required	Item		
30	Allow for giving every facility to Specialists as described	Item		
	Precast concrete slabs, etc			
31	Provide the sum of R100 000-00 (one hundred thousand rands) for the supply and installation of pre cast concrete slab by Specialists	Item		100,000.00
32	Allow for giving every facility to Specialists as described			
		Item		
33	Allow for profit on above if required	Item		
	UPS Installation, etc			
34	Provide the amount of R445 000.00 (four hundred and forty five thousand rand) for the supply and installation CCTV, Access control and PA System by Specialists	Item		445,000.00
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	PROVISIONAL SUMS Bill No. 1			
	PROVISIONAL SUMS			

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35	Allow for profit on above if required	Item			
36	Allow for giving every facility to Specialists as described	Item			
	Joinery Installation				
37	Provide a sum of R500 000-00 (five hundred thousand				
	rand) for the supply and installation of Joinery by Specialists	ltem		500,000.00	
38	Allow for profit on above if required	Item			
39		Item			
39	Allow for giving every facility to specialist as described	item			
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Item No			Quantity	Rate	Amount
	SECTION NO 6				
	BILL NO 2				
	PROVISIONAL AMOUNTS ETC				
	PROVISIONAL SUMS FOR SELECTED SUB- CONTRACT WORKS				
	HOLES THROUGH WALLS				
	<u>Holes</u>				
1	Leave or form opening through one brickwall for pipe n.e 100mm diameter	No	2		
2	Leave or form opening through one brickwall for pipe exceeding 100mm and n.e 200mm diameter	No	2		
	SLEEVES				
	Plastic sleeves for pipes not exceeding 100mm diameter				
3	Sleeve not exceeding 250mm long	No	3		
4	Sleeve exceeding 250mm and not exceeding 500mm long	No	4		
	Plastic sleeves for pipes exceeding 100mm and not exceeding 200mm diameter				
5	Sleeve not exceeding 250mm long	No	2		
6	Sleeve exceeding 250mm and not exceeding 500mm long	No	4		
	HOLES ETC				
	Core drilling of hole for pipe not exceeding 50mm diameter				
7	300mm Reinforced concrete slab, beam, wall, etc	No	2		
	Carried to Collection			R	
	Section No. 6 PROVISIONAL SUMS Bill No. 2				
	BUILDER'S WORK				

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	Core drilling of hole for pipe exceeding 50mm and not				- 1
	Core drilling of hole for pipe exceeding 50mm and not exceeding 100mm diameter		4		
8	300mm Reinforced concrete slab, beam, wall, etc	No	2		
		1			- 1
	Core drilling of hole for pipe exceeding 100mm and not exceeding 200mm diameter				
	exceeding 200mm diameter	1			1
9	300mm Reinforced concrete slab, beam, wall, etc	No	2		
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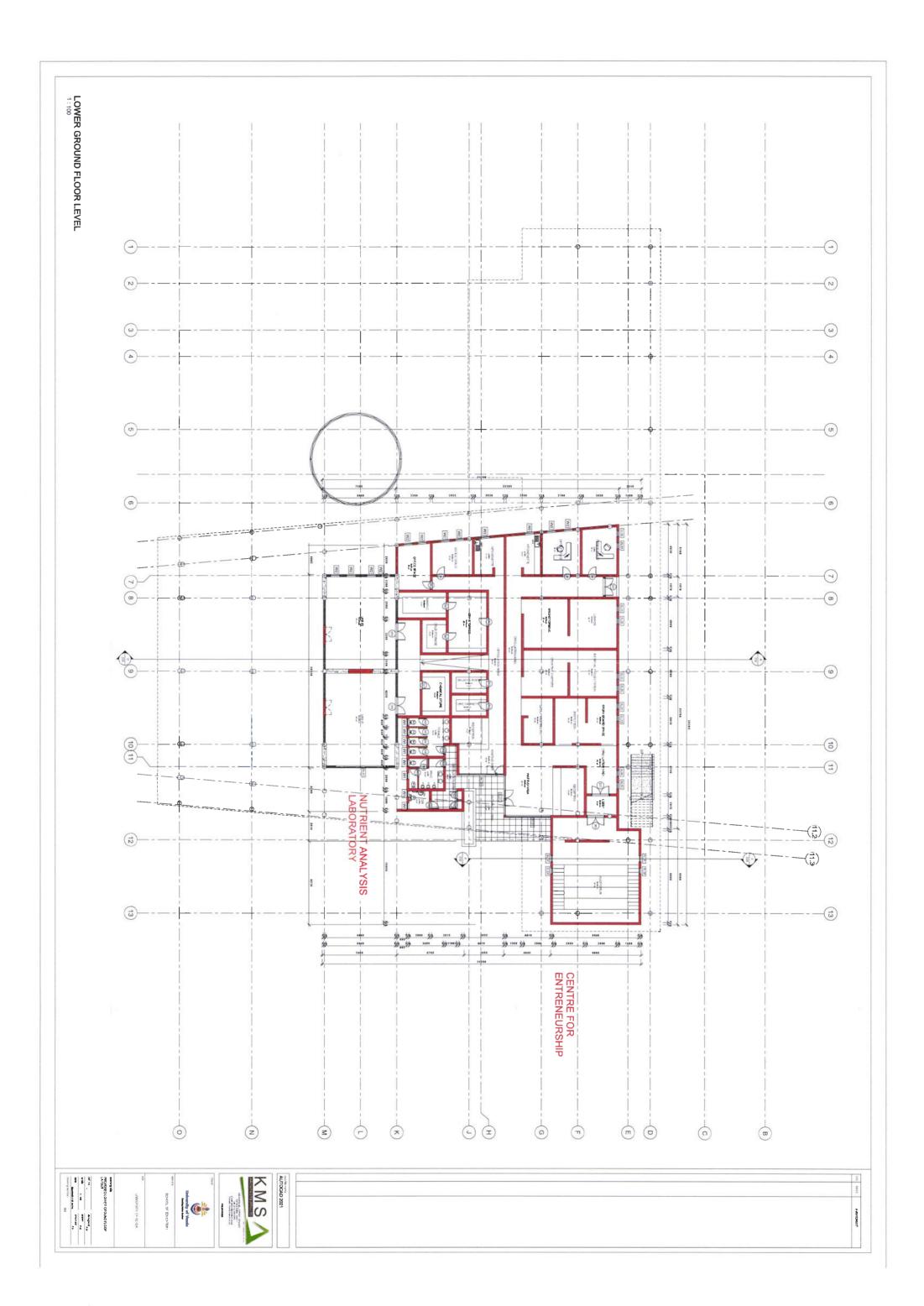
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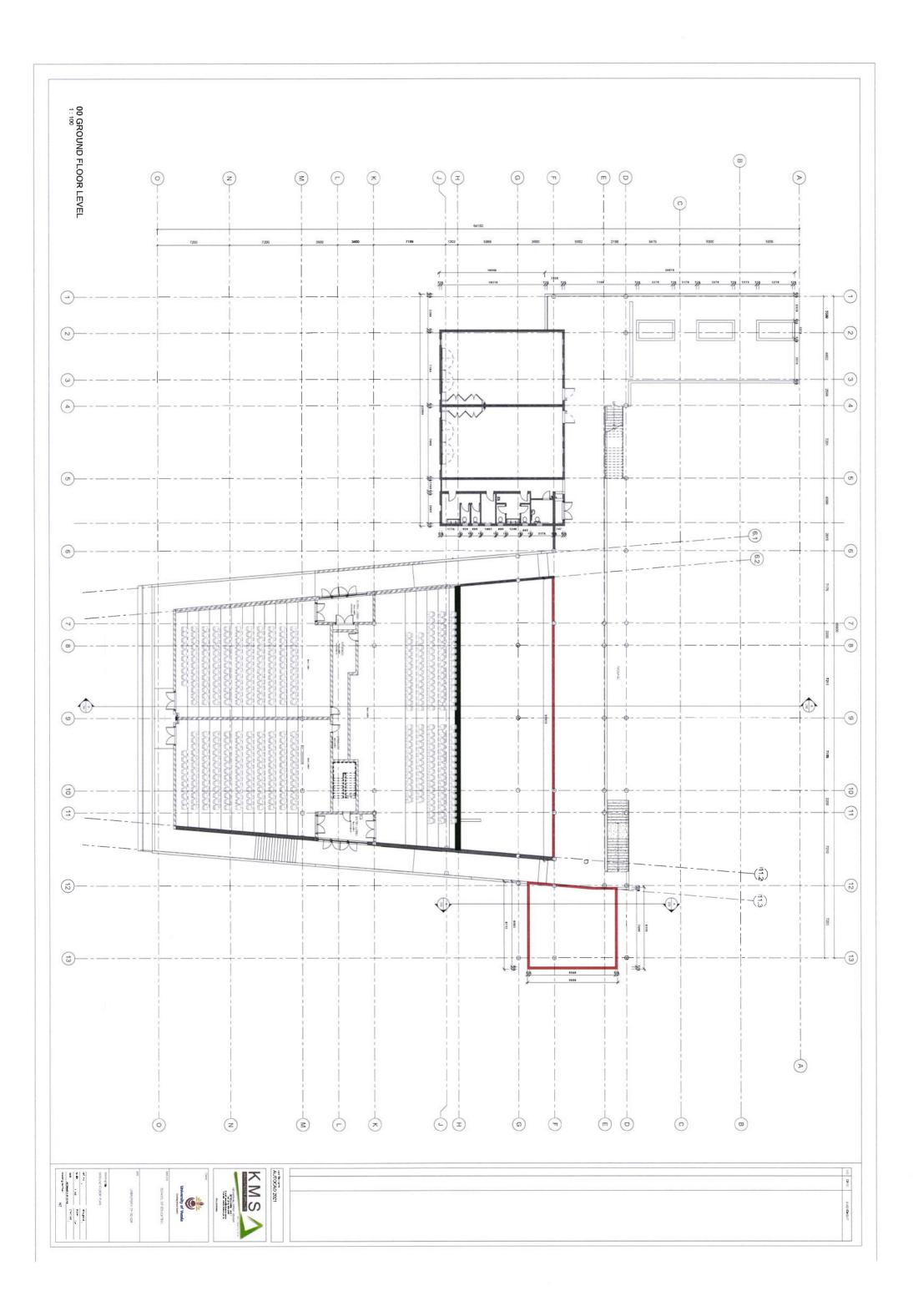
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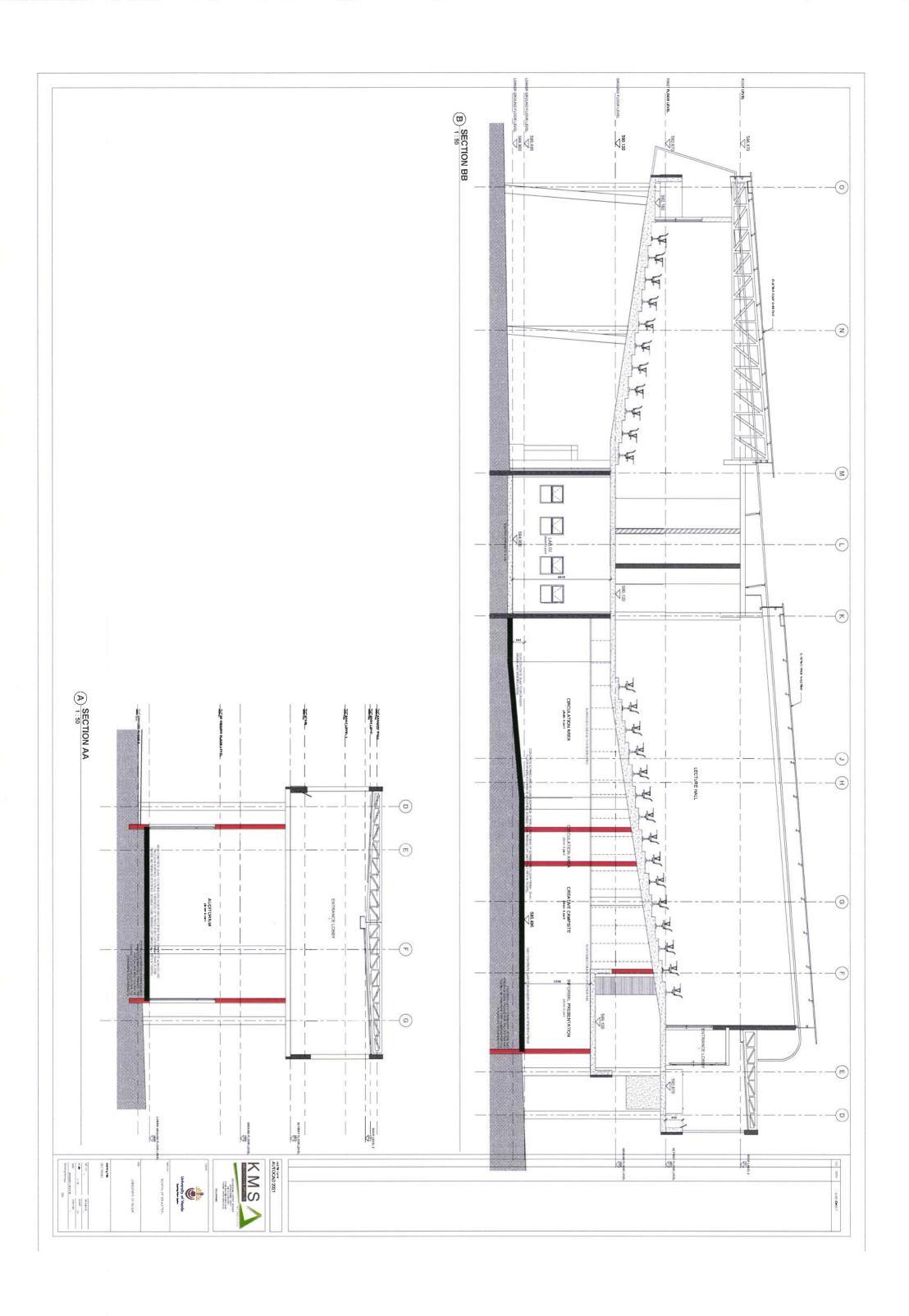
FINAL SUMMARY

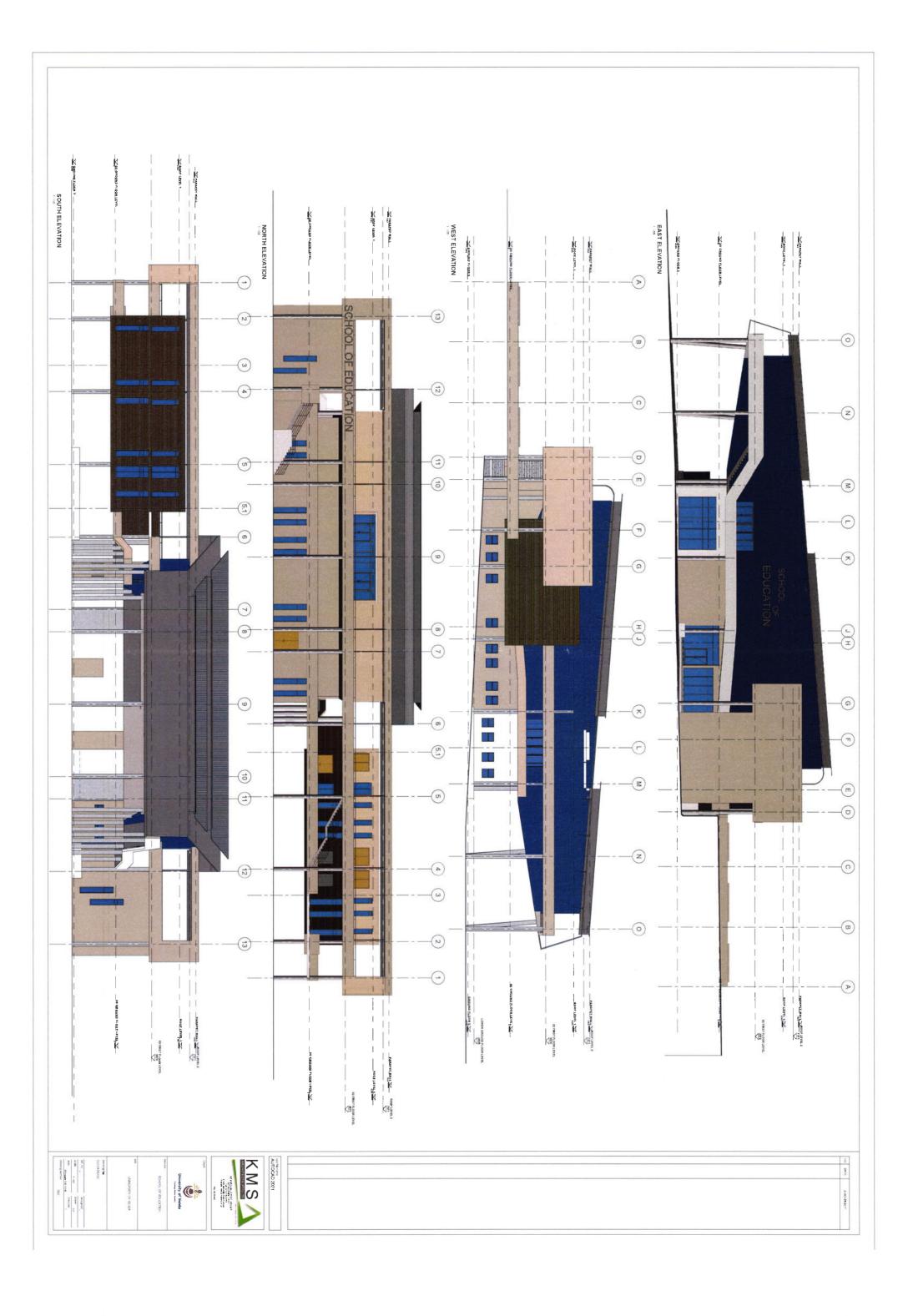
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Section No		Page No		Amount
1	PRELIMINARIES	28		
2	ALTERATIONS	32		
3	BUILDINGS			
4	PLUMBING & DRAINAGE	101		
5	SITE WORKS	110		
6	PROVISIONAL SUMS	120		
	Sub Total 1		R	
	CONTINGENCY SUM			
	Allow the amount of R400 000-00 (Four hundred thousand rand) for Contingencies for building work, to be used as directed by the Project Manager and deducted in whole or in part if not required	M		400,000,00
		Item		400,000.00
	SPECIAL CONDITIONS			
	Provide the sum of R300 000,00 (Three hundred thousand rand) for fluctuations in cost	Item		300,000.00
	Sub Total (VAT EXCL.) CARRIED TO TENDER FORM		R	
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	Sub Total (VAT INCL.) CARRIED TO TENDER FORM		R	
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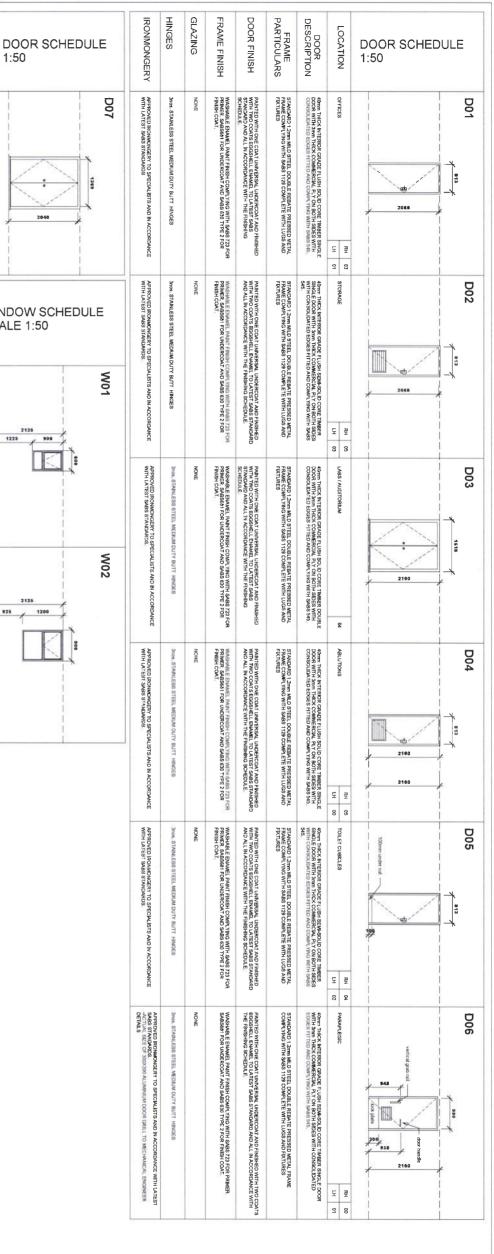
ARCHITECT DRAWINGS

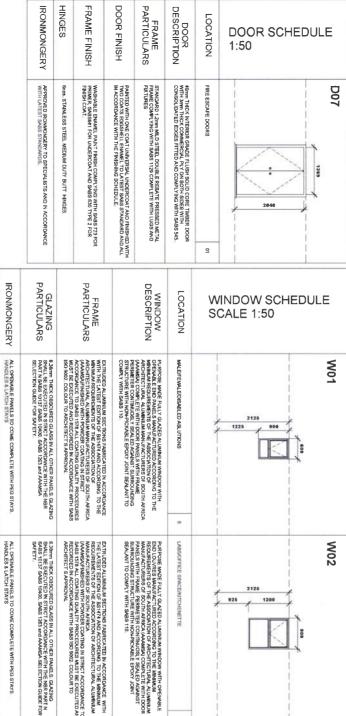












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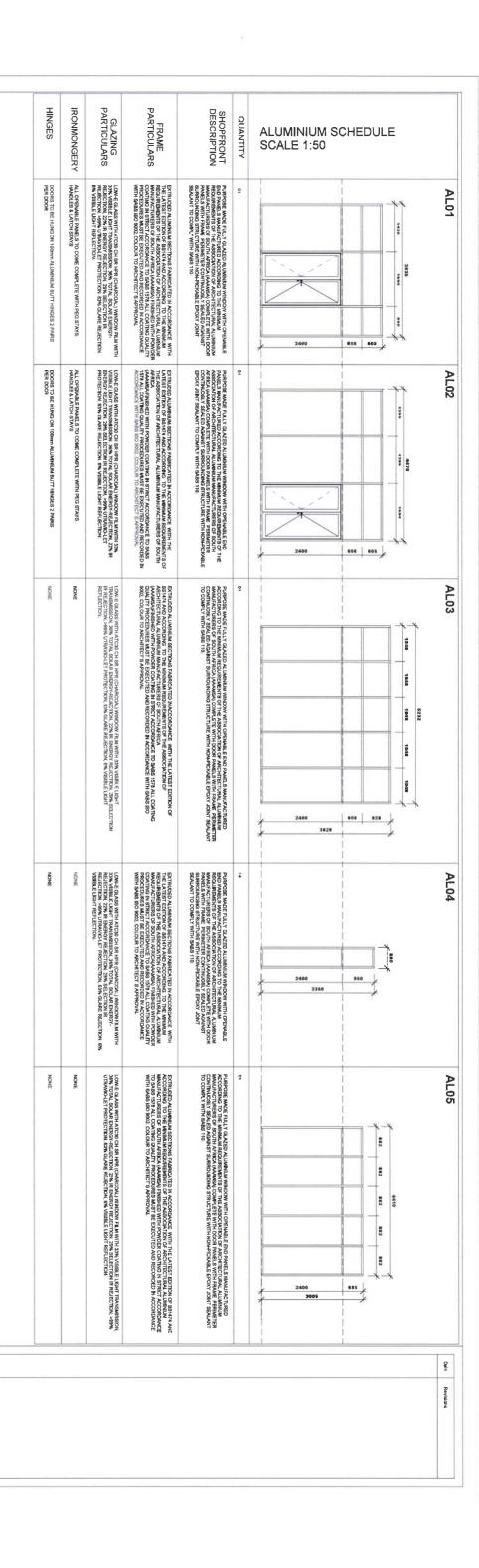


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