

KCMQS PROJECT NO. N984

New Additions and Alterations to the Existing Nursing Science Simulation Building at the University of Venda, Thohoyandou, Limpopo Province

(CIDB GRADING NO: 5GB)
VOLUME 2 OF 2

PROCUREMENT DOCUMENT

(Based on NEC3 Engineering and Construction Contract)

Date of Issue: 11 August 2021

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

MODEL PREAMBLES FOR TRADES

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

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

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

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

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

	Quantity	Rate	Amount	
SECTION 1				
BILL NO. 1		ė		
<u>PRELIMINARIES</u>				
PRELIMINARIES				
i) The NEC3 Engineering and Construction Contract Option B: Priced contract with bill of quantities (Third edition of June 2005) in conjunction with the Contract Data is taken to be incorporated herein				
ii) The tenderer is deemed to have taken cognizance of the above mentioned documents for the full intent and meaning of each clause. These clauses are referred to by clause number and heading only				
iii) The amount of Preliminaries to be included in each monthly payment certificate shall be assessed as an amount prorated to the value of the work duly executed in the same ratio as the preliminaries bears to the total of prices excluding any contingency sum and the amount for Preliminaries				
iv) Where the initial contract period is extended, the monthly charge shall be calculated on the basis as set out in (iii) but taking into account the revised period for completing the works			a.	
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Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1	1			
PRELIMINARIES & GENERAL		1		

Item No

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

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

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

Carried to Collection

Section No. 1
PRELIMINARIES AND GENERAL
Bill No. 1
PRELIMINARIES & GENERAL

	Fixed Related	Item		
	Value Related	Item		
	Time Related	Item		
<u> 1</u>	dentified and defined terms (clause 11)			
(Condition of contract (clause 11.1)			
	Fixed Related	Item		
	Value Related	Item		
	Time Related	Item		
	Defined terms (clause 11.2)			
	Fixed Related	Item		
	Value Related	Item		
	Time Related	Item	-	
	Interpretation and the law (clause 12)			
	Interpretation of the law (clause 12.1 - 12.4)			
	Fixed Related	Item		
	Value Related	Item	=	
	Time Related	Item		
	Communication (clause 13)			
	Communication (clause 13.1 - 13.8)			
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	Section No. 1 PRELIMINARIES AND GENERAL			
	Bill No. 1 PRELIMINARIES & GENERAL			
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ĺ	Fixed Related	Item			
	Value Related	Item			
	Time Related	Item			
]	The Project Manager and the Supervisor (clause 14)				
7	The Project Manager and the Supervisor (clause 14.1 -				
1	14.4)				
	Fixed Related	Item		, d 2	
	Value Related	Item			
	Time Related	Item			
	Adding to the Working Areas (clause 15)				
	Adding to the Working Areas (clause 15.1)				
2	Adding to the Working / Hode (States 1917)				
	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			
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	PRELIMINARIES AND GENERAL Bill No. 1				
	PRELIMINARIES & GENERAL				

Ambiguities and inconsistencies (clause 17)		
Ambiguities and inconsistencies (clause 17.1)		
	,	100
Fixed Related	Item	
Value Related	Item	
Time Related	Item	
Illegal and impossible requirements (clause 18)		
Illegal and impossible requirements (clause 18.1)		
Fixed Related	Item	
Value Related	Item	
Time Related	Item	
Prevention (clause 19)		,
Prevention (clause 19.1))		
Fixed Related	Item	
Value Related	Item	
Time Related	Item	
THE CONTRACTOR'S MAIN	o ,	
RESPONSIBILITIES		
Providing the Works (clause 20)		
Providing the Works (clause 20.1)		
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Carried to Collection		R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES & GENERAL		

	Fixed Related	Item			
	Value Related	Item			
	Time Related	Item	4		
The Contractor's design (clause 2	1)				
The contractor's design (clause 21.1	- 21.3)				
	Fixed Related	Item			
	Value Related	Item			
	Time Related	Item			
Using the Contractor's design (c	lause 22 <u>)</u>				
Using the Contractor's design (claus	e 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)			×		
bodigit of Equipment (see)					
2	Fixed Related	Item			
	Value Related	Item			
	Time Related	Item			
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	People (clause 24)				
١	People (clause 24.1 - 24.2)				
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	Fixed Related	Item			
	Value Related	Item			
	Time Related	Item			
	Working with the Employer and Others (clause 25)		1		
	Working with the Employer and Others (clause 25.1 - 25.3)				
		-	*		
	Fixed Related	Item			
	Value Related	Item			
	Time Related	Item			
	Sub-contracting (clause 26)				
	Sub-contracting (clause 26.1 - 26.3)				
	Fixed Related	Item			
	Value Related	Item			
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2	<u> Other responsibilities (clause 27)</u>				
	Other responsibilities (clause 27.1 - 27	7.4)			
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		Value Related	Item		
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	Starting, Completion and Key date	s (clause 30)			
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	Starting date (clause 30.1)				
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		Fixed Related	8		
		Value Related	Item		
		Time Related	Item		
	Completion date (clause 30.2)				
		Fixed Related	Item		
		Value Related	Item		
		Time Related	Item		æ
	Key date (clause 30.3)				
		Fixed Related	Item		
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The Programme (clause 31)			s	
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 (claus	e 33)			
Access to and use of the Site (clause 3	33.1)			
	al			
	Fixed Related	Item	-	
,	Value Related	Item	,	
	Time Related	Item		
Instruction to stop or not to start wo	ork (clause 34)			
Instruction to stop or not to start work	(clause 34.1)			
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	Fixed Related	Item		
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Take over (clause 35)					
Take over (clause 35.1 - 35.3)					
Take over (clause oc. 1 co.c)					
		Item			
	Fixed Related				
· ·	Value Related	Item			
	Time Related	Item			
Acceleration (clause 36)					
Acceleration (clause 36.1 - 36.3)					
	Fixed Related	Item	52		
	Value Related	Item			
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TESTING AND DEFECTS				265	
Testing and inspections (clause 40)					
Testing and inspections (clause 40.1 -					
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	Fixed Related	Item			
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Testing and inspections before delivery (Clause 41)			
Testing and inspection before delivery (clause 41.1)			
Fixed Related	Item		
Value Related	Item	:*	
Time Related	Item		
Searching for and notifying Defects (Clause 42)			
Searching for and notifying Defects (Clause 42.1 - 42.2)			
Fixed Related	Item		
Value Related	Item		
Time Related	Item		
Correcting Defects (Clause 43)			
Correcting Defects (Clause 43.1 - 43.4)			,
Compound 2 areas (3-
Fixed Related	Item		
Value Related	Item		
Time Related	Item		
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	Accepting Defects (clause 44)				
	Accepting Defects (clause 44.1 - 44.2)				
	Fixed R	elated Item			
	Value R	elated Item			
	Time R	elated Item	١		
	Uncorrected Defects (clause 45)				
	Uncorrected Defects (clause 45.1 - 45.2)				
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	Fixed F	Related Iten	n		
	Value F	Related	n		
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	PAYMENT		~		
	Assessing the amount due (clause 50)		·		
	Assessing the amount due (clause 50.1 - 50.5)				
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Payment (clause 51)		
Payment (clause 51.1 - 51.4)		
Fixed Related	Item	
Value Related	Item	
Time Related	Item	
Defined Cost (clause 52)		
Defined Cost (clause 52.1)		
Fixed Related	Item	
Value Related	Item	
Time Related	Item	
The Bills of Quantities (clause 55)		
The bills of quantities (clause 55.1)		
Fixed Related	Item	
Value Related	Item	
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COMPENSATION EVENTS		
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Compensation events (clause 60)				
Compensation events (clause 60.1 - 60.7)				
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Fixed Related	Item			
Value Related	Item	*		
Time Related	Item			
Notifying compensation events (clause 61)				
Notifying compensation events (clause 61.1 - 61.7)				
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Fixed Related		_		
Value Related	Item			
Time Related	Item			
Quotation for compensation events (clause 62)				
Quotation for compensation events (clause 62.1 - 62.6)			,	
Fixed Related	Item			
Value Related	Item		ĺ	
Time Related	Item			
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	ssessing compensation events (clause 63) ssessing compensation events (clause 63.1 - 63.13)				
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	Fixed Related	Item	Res.	397	
	Value Related	Item			
	Time Related	Item			
I	he Project Manager's assessment (clause 64)				
T	he Project Manager's assessment (clause 64.1 -				
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	Fixed Related	Item			
	Value Related	Item	€		
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ا	Implementing compensation events (clause 65)				
	Implementing compensation events (clause 65.1 - 65.4)				
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	Fixed Related	Item			
	Value Related	Item			
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Time Related	Item			
TITLE		E .		
The Employer's title to Plant and Materials (clause 70)				
Plant and Materials outside the working area (clause 70.1)			2	
Fixed Related	Item			
Value Related	Item			
Time Related	Item			
Plant and Materials within the working area (clause 70.2)				
Fixed Related	Item		-22	
Value Related	Item			
Time Related	Item			
Marking Equipment, Plant and Materials outside				
Working Areas (clause 71) Marking Equipment, Plant and Materials outside				
Working Areas (clause 71.1)				
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	Fixed Related	Item			
	Value Related	Item			
	Time Related	Item		3	
F	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)	See			
1	Objects and materials within the site (clause 73.1 - 73.2)				
	Fixed Related	Item			
	Value Related	Item			
	Time Related	Item			
	RISK AND INSURANCE				
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NEW ADDITIONS AND ALTERATIONS TO THE EXISTING NURSING SCIENCE

SIMULATION BUILDING AT THE UNIVERSITY OF VENDA

Employer's risk (clause 80)				
Employer's risk (clause 80.1)				
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	r			
	Fixed Related	Item		
	Value Related	Item		
	Time Related	Item		
Contractor's risk (clause 81)				
Contractor's risk (clause 81.1)				
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	Fixed Related	Item		
	Value Related	Item		
	Time Related	Item		
Repairs (clause 82)	ž			92
Repairs (clause 82.1)				
	Fixed Related	Item		
	Value Related	Item		
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	Time Related	Item			
Indemnity (clause 83)					
Indemnity (clause 83.1- 83.2)					
	Fixed Related	Item			
	Value Related	Item			
	Time Related	Item		T)	
Insurance cover (clause 84)					
Insurance cover (clause 84.1 - 84.2)			2		
			-22		
	Fixed Related	Item			
	Value Related	Item			
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Insurance policies (clause 85)					
Insurance policies (clause 85.1 - 85.4)				=	
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	Fixed Related	Item			
	Value Related	Item			
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	Time Related	Item			
If the Contractor does not insure (cl	ause 86)			,	
If the Contractor does not insure (claus	se 86.1)				
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	Fixed Related	Item	2		
	Value Related	Item			
9	Time Related	Item			
Insurance by the Employer (clause	87)				
Insurance by the Employer (clause 87	7.1 -87.3)				
	Fixed Related	Item			
	Value Related	Item			
	Time Related	Item			
TERMINATION		=			
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	Carried to Collection	,	R		_
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<u>Ter</u>	mination (clause 90)				
Ter	mination (clause 90.1 - 90.5)	0	i se		
			-		
	Fixed Related	Item			
	Value Related	Item			
	Time Related	Item			
Re	easons for termination (clause 91)		a		
Re	easons for termination (clause 91.1 - 91.7)				
			=		
	Fixed Related	Item			
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	Value Related	Item			
	Time Related	item		,	
	rocedures on termination (clause 92)				
Pi	rocedures on termination (clause 92.1 - 92.2)				
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		Fixed Related	Item			
		Value Related	Item			
		Time Related	Item			
E	Payment on termination (clause 93	1				8 *
F	Procedures on termination (clause 93	:.1 - 93.2)				
				10		
		Fixed Related	Item			
		Value Related	Item			
		Time Related	Item			
	MAIN OPTION CLAUSES					
	MAIN OPTION CLAUSES					
	DISPUTE RESOLUTION					
	Option W1					
	Dispute Resolution (clause W1.1)					
		Fixed Related	Item			
		Value Related	Item			
		Time Related	Item			
	The Adjudicator (clause W1.2)			- 2		
		Fixed Related	Item			
		Value Related	Item			•
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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 CLAUSES				
Price adjustment for inflation (Option X1)		at .		
Defined terms (clause X1.1)		8.		
Fixed Related	Item			3
Value Related	Item			
Time Related	Item			
Price Adjustment Factor (clause X1.2)				
Fixed Related	Item	,		
Value Related	Item			0
Time Related	Item			
Compensation Event (clause X1.3)				
Fixed Related	Item			
Value Related	Item			
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Price Adjustment (clause X1.4)				at a	
	Fixed Related	Item	-		
	Value Related	Item			
	Time Related	Item			
Changes in the law (Option X2)	9				
Changes in the law (clause X2.1)					
	Fixed Related	Item			
	Value Related	Item	*		
100	Time Related	Item			
Delay damages (Option X7)					
Delay damages (clause X7.1 - X7.3)					
	Fixed Related	Item			
	Value Related	Item			
	Time Related	Item			
Perfomance bond (Option X13)					
Performance bond (Option X13.1)					=
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	Fixed Related	Item			
	Value Related	Item		_	
	Time Related	nem			
Advanced payment to the contract	ctor (Option X14)				
Advanced payment to the contracto X14.3)	or (Option X14.1 -			2	
X14.5)					
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	Fixed Related	Item			
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	Time Related	Item			
<u>!</u>	Limitation of the Contractor's liability for his design to reasonable skill and care (Option X15)				
	Limitation of the Contractor's liability for his design to reasonable skill and care (Option X15.1 - X15.2)				
	Fixed Related	Item			
	Value Related	Item			
	Time Related	Item	*		
	Retention (Option X16)		1		
	Retention (Option X16.1 - X16.2)		-		
	Fixed Related	Item			
	Value Related	Item			
	Time Related	Item			
	Low performance damages (Option X17)				
	Low performance damages (Option X17.1)				
	Fixed Related	Item			
	Value Related	Item			
	Time Related	Item			
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<u> L</u>	imitation of Liability (Option X18)				
	Limitation of Liability (Option X18.1 - X18.5)			10	
	Fixed Related	Item			
	Value Related	Item		*	
	Time Related	Item	-		
9	CONTRACT DATA		φ.		
	Contractual Requirements as stated elsewhere in the document				*
	ESTABLISHMENT OF FACILITIES ON THE SITE				
	Facilities for Project Manager	6			
	Furnished offices (In no 1)				
	Fixed Related	Item			
	Value Related	Item			
	Time Related	Item			
	Name boards (In no 1)				
	Fixed Related	Item			
	Value Related	Item	_ ×		
	Time Related	Item			
	Offices and storage sheds			,	
	Fixed Related	Item			
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	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					
	Fixed Related	Item			
	Value Related	Item			
	Time Related	Item			
Water supplies, electric power, com with water and access	munication, dealing		•		
	Fixed Related	Item			
	Value Related	Item			
	Time Related	Item		9	
Other fixed charge obligations					
	Fixed Related	Item			
,	Value Related	Item			
	Time Related	Item			
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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.		•	Y	
Fixed Related	Item			
Value Related	Item			
Time Related	Item		,,	
Allow for compliance with all COVID 19 Regulations and Requirements				
Fixed Related	Item			
Value Related	Item			
Time Related	Item			
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Section No. 1				
PRELIMINARIES AND GENERAL				
Bill No. 1				
PRELIMINARIES & GENERAL				
COLLECTION	=			
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SECTION 2: BUILDING WORKS

		Quantity	Rate	Amount
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	BILL NO. 1			
	<u>FOUNDATIONS</u>			,
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"		2	
	SUPPLEMENTARY PREAMBLES			
×	Nature of ground			
	The nature of the ground is assumed to be sandy weathered granite, therefore "earth", but possibly interspersed with "hard rock"			
	Excavation for working space in rock			
	Notwithstanding clause 11 page 8 of the Standard System of Measuring Building Work, excavation for working space in rock will be measured in cubic metres to the extent executed and given as "extra over" bulk excavation or trench and hole excavation as the case may be			
	Carting away of excavated material			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	Filling		(2	
	Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material		,	
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	Section No. 2 BUILDINGS (PROVISONAL) Bill No. 1 FOUNDATIONS			

Item No

		1	. 1			
	<u>EARTHWORKS</u>					
	EXCAVATIONS					
	Excavation in earth not exceeding 2m deep					
1	Trenches	m3	175			
2	Holes	m3	12			
	Extra over trench and hole excavations in earth for excavation in					
3	Soft rock	m3	4			
4	Hard rock	m3	9			
	Extra over all excavations for carting away					
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	107			
	Risk of collapse of excavations		a a			
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	522		7	
	Keeping excavations free of water					
7	Keeping excavations free of water		Item			
	FILLING ETC					
	Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density					
8	Backfilling to trenches, holes, etc	m3	81			
	Earth filling of G7 material supplied by the contractor, compacted to 95% Mod AASHTO density					
9	Under floors, steps, pavings, etc	m3	121			
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	Section No. 2 BUILDINGS (PROVISONAL) Bill No. 1 FOUNDATIONS					

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	Compaction of surfaces				
10	Compaction of ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	545		
	Prescribed density tests on filling				
11	"Mod. AASHTO Density" test	No	25		
	SOIL POISONING		to 0		
ž.	Soil insecticide to be executed with SABS compliance by a firm of specialists under a 5 year guarantee				
12	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	545		-
13	To bottoms and sides of trenches etc	m2	731		
	Weedkiller to be executed with SABS compliance by a firm of specialists under a 5 year guarantee				
14	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	545		
15	To bottoms and sides of trenches etc	m2	731		
	CONCRETE, FORMWORK & REINFORCEMENT	_			
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	15MPa/19mm concrete				
16	Surface blinding under footings and bases	m3	10		
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
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	Section No. 2 BUILDINGS (PROVISONAL) Bill No. 1 FOUNDATIONS				

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	30MPa/19mm concrete						
17	Strip footings	m3	58				
18	Bases	m3	4				
	REINFORCED CONCRETE						
	30MPa/19mm concrete			8			
19	Columns in foundations	m3	0.2				
20	Walls in foundations	m3	1				
	TEST CUBES						
21	Allow for preparing a set of three (3) concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	No	33				
	SMOOTH FORMWORK (DEGREE OF ACCURACY II)						
	Smooth formwork to sides						
22	Walls in foundations	m2	5			6	
23	Rectangular columns in foundations.	m2	2				
	Special formwork to circular columns	2					
24	300mm Diameter column 0,895m high	No	. 1		T.		
	REINFORCEMENT			₩			
	Mild steel reinforcement to structural concrete work						
25	8mm Diameter bars	t	2.22				
26	10mm Diameter bars	t	0.23				
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	FOUNDATIONS						

	High tensile steel reinforcement to structural concrete work					
27	10mm Diameter bars	t	0.34			
28	12mm Diameter bars	t	2.57			
29	16mm Diameter bars	t	2.57			
	High tensile steel dowel bars					
30	16mm Diameter dowel bar 1000mm long with 500mm drilled into (and including drilling) into existing concrete and covered with wet dry epoxy a.b.e epidermix 396 or similar approved and the remaining 500mm length left to join with new concrete	No	30	-		
	Sundries, etc.					
31	Prepare and apply wet dry epoxy a.b.e epidermix 396 or similar approved on existing concrete surfaces	m2	1			
	MASONRY			e		
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar	,				
32	Half brick walls	m2	40			
33	One brick walls	m2	173			
34	One and half brick walls					
		m2	1			
35	345mm Hollow walls of two half brick skins including vertical twist type wall ties	m2	24	27		
	BRICKWORK SUNDRIES		u .			
36	Splayed mortar fillet one course high in 115mm cavity	m	12			
37	Fill 115mm cavity of hollow walls with 1:3 cement mortar	m3	1			n
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	Section No. 2 BUILDINGS (PROVISONAL) Bill No. 1 FOUNDATIONS				<u></u>	
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	Brickwork reinforcement					
38	75mm Brick reinforcement built in horizontally	m	1,049			
39	150mm Wide reinforcement built in horizontally	m	2,029			
40	230mm Wide reinforcement built in horizontally	m	11			78
	Galvanised hoop iron cramps, ties, etc	=				
41	1,6mm Thick x 25mm wide galvanised metal hoop iron 540mm long three (3) times bent and built into brickwork	No	170	2		
42	1,6mm Thick x 25mm wide galvanised metal hoop iron 450mm long two (2) times bent, with one end fixed to concrete column with and including 5mm Fisher plugs and screws and the other end built into brickwork	No	4			
43	1,6mm Thick x 25mm wide galvanised metal hoop iron 540mm long two (2) times bent, with one end fixed to concrete column with and including "hilti" instructions and the other end built into brickwork	No	26			7
	FACE BRICKWORK					
	Face clay face brick, size 222 x 106 x 73mm, bedded and jointed in Class I mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zone 1-2 (PC Amount R10 000-00/1000 VAT excl. supplied and delivered to site)	G				
44	Extra over brickwork for face brickwork	m2	60			
	Brick-on-edge header course copings, sills, etc of face bricks pointed with recessed joints on all exposed faces (PC Amount R10 000-00/1000 VAT excl. supplied and delivered to site)					
45	Coping on top of one brick wall	m	42			
	WATERPROOFING	2			-	
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	DAMPPROOFING OF WALLS AND FLOORS					
	Prepare brick surfaces, remove projecting mortar, leave smooth an apply two coats "a.b.e Construction Chemicals" flintkote 3 in strict accordance with manufacturer's instructions	,				
46	On foundation walls surfaces	m2	416			
	JOINT SEALANTS ETC	40				=
	"Sika"					
47	Prepare surfaces and apply 10 x 15mm deep "Sikaflex Pro 2HP" polyurethane sealant to joints					
		m	87			
	"Sondor"					
48	Sondor Performance Foams Jointex low density (33kg/m³), cross linked, closed cell, expanded polyethylene joint former, size 85 x 10mm thick with tear off strip fitted to concrete surface with adhesive as per adhesive manufacturer's					
	recommendation.					
		m	18		-	
49	Sondor Performance Foams Jointex low density (33kg/m³), cross linked, closed cell, expanded polyethylene joint former, size 200 x 10mm thick with tear off strip fitted to concrete surface with adhesive as per adhesive manufacturer's recommendation.			,		
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50	Sondor Performance Foams Jointex low density (33kg/m³), cross linked, closed cell, expanded polyethylene joint former, size 315 x 10mm thick with tear off strip fitted to concrete surface with adhesive as per adhesive manufacturer's recommendation.	ž				
		. m	7			
51	Sondor Performance Foams Jointex low density (33kg/m³), cross linked, closed cell, expanded polyethylene joint former, size 270 x 10mm thick with tear off strip fitted to concrete surface with adhesive as per adhesive manufacturer's recommendation.					
		m	4			
	Expansion joints with bitumen impregnated softboard between concrete and brickwork					
52	10mm Joints not exceeding 300mm high vertically between walls	m	36	*		
53	10mm Joints 345mm wide vertically between walls	m	7			
	PAINTWORK			40		
	ON METAL	n B				
	Prepare surfaces and apply two coats bitumen primer in strict accordance to manufacturer's instructions	1				
54	On columns and beams	m2	2			
55	On rails, bars, pipes, etc not exceeding 300 mm girth	m	1			
	PLASTERING					
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	Non shrink grout	12			1	
1 .	TYON ON THE STOCK					
56	25mm Thick bedding under 220 x 220mm wide base plate including chamfering edges all round		-			
		No	2			
57	25mm Thick bedding under 620 x 220mm wide base plate including chamfering edges all round					
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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			<i>3</i>	
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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Item No

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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			1		
	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"	v				
	LIGHTWEIGHT CONCRETE				,	
	Breeze concrete					
1	Grading to slabs	m2	110		α	
2	Grading to sides of beams, etc.	m2	24			
	REINFORCED CONCRETE					
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3 30MPa/19mm concrete 3 Surface beds cast in panels on waterproofing m3 54 4 Extra over for concrete thickening in surface beds size 75mm deep, 800mm at top and tapering both sides to 600mm at bottom, including all excavations, cart away, etc. m3 3 5 Columns m3 1 7 Slabs including beams and inverted beams m3 33 8 Isolated beams m3 2 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 50 CONCRETE SUNDRIES Finishing top surfaces of concrete smooth with a wood float/steel trowel 10 Ramps, etc m2 538 Finishing top surfaces of concrete smooth with a power float 11 Surface beds, slabs, etc Finishing top surfaces of concrete smooth with a power float 12 Finishing smooth top and sides surfaces of grading to falls for waterproofing m2 134 SMOOTH FORMWORK (DEGREE OF ACCURACY II)			1	Tr.	ii .	1
Extra over for concrete thickening in surface beds size 75mm deep, 800mm at top and tapering both sides to 600mm at bottom, including all excavations, cart away, etc. Malls Columns M3 Slabs including beams and inverted beams Bisolated beams TEST CUBES 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 CONCRETE SUNDRIES Finishing top surfaces of concrete smooth with a wood float/steel trowel Ramps, etc M2 Surface beds, slabs, etc Finishing top surfaces of concrete smooth with a power float Finishing smooth top and sides surfaces of grading to falls for waterproofing M2 SMOOTH FORMWORK (DEGREE OF ACCURACY II) Carried to Collection Section No. 2 BUILDINGS (PROVISONAL) Bill No. 2		30MPa/19mm concrete		18		
75mm deep, 800mm at top and tapering both sides to 600mm at bottom, including all excavations, cart away, etc. Walls Columns m3 3 Columns m3 1 Slabs including beams and inverted beams m3 Isolated beams TEST CUBES Allow for preparing a set of three (3) concrete strength test cubes, each size 150 x 150 x 150 ms, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith. No CONCRETE SUNDRIES Finishing top surfaces of concrete smooth with a wood float/steel trowel Ramps, etc Surface beds, slabs, etc Finishing top surfaces of concrete smooth with a power float float Finishing smooth top and sides surfaces of grading to falls for waterproofing m2 134 SMOOTH FORMWORK (DEGREE OF ACCURACY II)	3	Surface beds cast in panels on waterproofing	m3	54		
Columns m3 1 Slabs including beams and inverted beams m3 33 Bisolated beams m3 22 TEST CUBES 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 CONCRETE SUNDRIES Finishing top surfaces of concrete smooth with a wood float/steel trowel Ramps, etc m2 538 Finishing top surfaces of concrete smooth with a power float Finishing top surfaces of concrete smooth with a power float Finishing smooth top and sides surfaces of grading to falls for waterproofing m2 134 SMOOTH FORMWORK (DEGREE OF ACCURACY II) Carried to Collection R Section No. 2 BUILDINGS (PROVISONAL) BIII No. 2	4	75mm deep, 800mm at top and tapering both sides to 600mm at bottom, including all excavations, cart away,	m	40	y. 1	
Slabs including beams and inverted beams m3 33 Isolated beams m3 2 TEST CUBES 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 50 CONCRETE SUNDRIES Finishing top surfaces of concrete smooth with a wood float/steel trowel Ramps, etc m2 538 Finishing top surfaces of concrete smooth with a power float Finishing smooth top and sides surfaces of grading to falls for waterproofing m2 134 SMOOTH FORMWORK (DEGREE OF ACCURACY II) Carried to Collection R	5	Walls	m3	3	ä.	
Isolated beams m3 2 TEST CUBES 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 50 CONCRETE SUNDRIES Finishing top surfaces of concrete smooth with a wood float/steel trowel Ramps, etc m2 7 Surface beds, slabs, etc m2 538 Finishing top surfaces of concrete smooth with a power float Finishing smooth top and sides surfaces of grading to falls for waterproofing m2 134 SMOOTH FORMWORK (DEGREE OF ACCURACY III) Carried to Collection R Section No. 2 BUILDINGS (PROVISONAL) Bill No. 2	6	Columns	m3	1		
TEST CUBES Allow for preparing a set of three (3) concrete strength test cubes, each size 150 x 150 x 150 mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith. No CONCRETE SUNDRIES Finishing top surfaces of concrete smooth with a wood float/steel trowel Ramps, etc Surface beds, slabs, etc Finishing top surfaces of concrete smooth with a power float Finishing smooth top and sides surfaces of grading to falls for waterproofing Table 134 SMOOTH FORMWORK (DEGREE OF ACCURACY II) Carried to Collection R BUILDINGS (PROVISONAL) Bill No. 2 BUILDINGS (PROVISONAL)	7	Slabs including beams and inverted beams	m3	33		
Allow for preparing a set of three (3) concrete strength test cubes, each size 150 x 150 mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith. No 50 CONCRETE SUNDRIES Finishing top surfaces of concrete smooth with a wood float/steel trowel Ramps, etc m2 7 Surface beds, slabs, etc m2 538 Finishing top surfaces of concrete smooth with a power float Finishing top surfaces of concrete smooth with a power float Finishing smooth top and sides surfaces of grading to falls for waterproofing m2 134 SMOOTH FORMWORK (DEGREE OF ACCURACY II) Carried to Collection Section No. 2 BUILDINGS (PROVISONAL) BIII No. 2	8	Isolated beams	m3	2		
Finishing top surfaces of concrete smooth with a wood float/steel trowel 10 Ramps, etc m2 7 11 Surface beds, slabs, etc m2 538 Finishing top surfaces of concrete smooth with a power float 12 Finishing smooth top and sides surfaces of grading to falls for waterproofing m2 134 SMOOTH FORMWORK (DEGREE OF ACCURACY II) Carried to Collection R Section No. 2 BUILDINGS (PROVISONAL) Bill No. 2	9	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	No	50		
float/steel trowel Ramps, etc m2 7 Surface beds, slabs, etc m2 538 Finishing top surfaces of concrete smooth with a power float Finishing smooth top and sides surfaces of grading to falls for waterproofing m2 134 SMOOTH FORMWORK (DEGREE OF ACCURACY II) Carried to Collection Section No. 2 BUILDINGS (PROVISONAL) Bill No. 2		CONCRETE SUNDRIES				
Section No. 2 BUILDINGS (PROVISONAL) Bill No. 2 Surface beds, slabs, etc m2 538 Finishing top surfaces of concrete smooth with a power float Finishing smooth top and sides surfaces of grading to falls for waterproofing m2 134 Carried to Collection R				e -		
Finishing top surfaces of concrete smooth with a power float 12 Finishing smooth top and sides surfaces of grading to falls for waterproofing m2 SMOOTH FORMWORK (DEGREE OF ACCURACY II) Carried to Collection Section No. 2 BUILDINGS (PROVISONAL) Bill No. 2	10	Ramps, etc	m2	7		
float Finishing smooth top and sides surfaces of grading to falls for waterproofing m2 SMOOTH FORMWORK (DEGREE OF ACCURACY II) Carried to Collection Section No. 2 BUILDINGS (PROVISONAL) Bill No. 2	11	Surface beds, slabs, etc	m2	538		
falls for waterproofing m2 134 SMOOTH FORMWORK (DEGREE OF ACCURACY II) Carried to Collection Section No. 2 BUILDINGS (PROVISONAL) Bill No. 2	10	float				
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	Smooth formwork to sides						
13	Walls	m2	23				
14	Beams	m2	28				
15	Isolated beams	m2	16	e			
16	Inverted beams above concrete	m2	24				
17	Rectangular column propped up exceeding 3,5m high and not exceeding 5m high	m2	9				
	Smooth formwork to soffits						
18	Isolated beams	m2	4	ē			
19	Slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 3,5m and not exceeding 5m high	m2	110				
	Special formwork to circular columns						
20	300mm Diameter circular columns 3,40m high	No	1				
	Boxing in smooth formwork to form						
21	25 x 25mm chamfer along edge	m	97				
22	20mm Deep drip line groove at bottom of slabs	m	55				
	MOVEMENT JOINTS ETC	9			-		
	Expansion joints with bitumen impregnated softboard between concrete and brickwork		a a				
23	10mm Joints not exceeding 300mm high along edges of surface beds	m	381				
	Saw cut joints		21				
24	5 x 50mm Saw cut joints in top of concrete	m	114				
	REINFORCEMENT						
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	Mild steel reinforcement to structural concrete work		9			
25	8mm Diameter bars	t	1.61			
	High tensile steel reinforcement to structural concrete work			• H	_	
26	12mm Diameter bars	t	1.38			
27	16mm Diameter bars	t	1.38			
	Fabric reinforcement			41		
28	Steeledale Mesh standard square fabric mesh, nominal mass 2,45 kg/m² with nominal 5,6mm thick wires and 200 x 200mm pitch (code 245), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.	m2	545	3		
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	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"				
	SUPPLEMENTARY PREAMBLES				
	BRICKWORK	1			
	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 wall ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole	· E			
	Wall ties shall be vertical twist type wall ties galvanised 750g/m2 zinc in accordance to SABS - 1986, and shall be at every 5th brick course at 500mm centres staggered in diamond formation				
83					
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Item No

	Reinforced brick lintels					
	Lintels shall bear at least 160mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings the lintel shall be continuous					* =
	Face bricks					-
	Bricks shall be ordered timeously to obtain uniformity in size and colour			8		
	Pointing					
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc		96 - I			
	SAMPLES					
	Samples of all masonry building units, shall consist of a minimum of 6 units					
	SUPERSTRUCTURE					14
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar					
1	Half brick walls	m2	322		_	
2	One brick walls	m2	571		ž:	
3	345mm Hollow walls of two half brick skins including vertical twist type wall ties					
		m2	99		4.	
	BRICKWORK SUNDRIES					
	Brickwork reinforcement					77
4	75mm Wide reinforcement built in horizontally	m	2,812			
-	150mm Wide reinforcement built in horizontally	m	3,888			
5	150mm Wide reimorcement bank in nonzonally					
						
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6	230mm Wide reinforcement built in horizontally	m	309				
	"Allied Concrete" prestressed fabricated lintels						
7	110 x 70mm Lintels in lengths not exceeding 3m	m	35				
	Turning pieces			*			
8	230mm Wide turning pieces to lintels etc	m	47				
9	345mm Wide turning pieces to lintels etc	m	4				
	Galvanised hoop iron cramps, ties, etc						
10	1,6mm Thick x 25mm wide galvanised metal hoop iron 540mm long three (3) times bent and built into brickwork	No	48				
11	1,6mm Thick x 25mm wide galvanised metal hoop iron 450mm long two (2) times bent, with one end fixed to concrete column with and including 5mm Fisher plugs and screws and the other end built into brickwork	No	2				
12	1,6mm Thick x 25mm wide galvanised metal hoop iron 540mm long two (2) times bent, with one end fixed to concrete column with "hilti" instructions and the other end built into brickwork	No	4				
13	30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end cast into concrete	No	62				
	MOVEMENT JOINTS, ETC.						
	Expansion joints with bitumen impregnated softboard between concrete and brickwork						
14	10mm Joints not exceeding 300mm high vertically between walls	m	123		*		
15	10mm Joints 315mm wide vertically between walls	m	24				
	FACE BRICKWORK						
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	Face clay face brick, size 222 x 106 x 73mm, bedded and jointed in Class I mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zone 1-2 (PC Amount R10 000-00/1000 VAT excl. supplied and delivered to site)					
16	Extra over brickwork for face brickwork	m2	479			
17	Extra over brickwork for brick-on-edge header course lintel pointed on face and 110mm soffit	m	47			- =
18	Extra over brickwork for brick-on-edge header course over 345mm wide wall lintel pointed on face and 230mm soffit			9		15
		m	4			
19	Fair raking cutting	m	21			
	Brick-on-edge header course copings, 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			-		
20	110mm Wide sill set sloping and slightly projecting	m	29		v	
21	Coping on top of 345mm brick wall	m	13		-	
22	Coping on top of one brick walls	m	4			,
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	BILL NO. 4					
	WATERPROOFING					
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"					
	WATERPROOFING TO ROOFS, BASEMENTS, ETC	-		*		
	One layer Derbigum SP4 waterproofing membrane, with 75mm side laps and 100mm end laps, sealed to primed surface to falls and crossfalls by 'torchfusion, followed with on layer of Derbigum SP5 waterproofing finished with two coats Roofcote bituminous aluminum paint. Waterproofing to be installed by an Approved Derbigum Contractor under a ten (10) years guarantee.					
1	On flat floors	m2	110			
2	On tops and sides of inverted beams	m2	24			
	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.		TF.		,	
3	In walls	m2	61			
	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.	¥				
4	Under surface beds	m2	538			
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	JOINT SEALANTS ETC		*			
	Two-part approved polysulphide sealing compound including backing cord, bond breaker, primer, etc					
5	5 x 50mm In saw cut joints	m	114			
6	10 x 15mm In isolation joints including raking out of expansion joint filler as necessary	m	381			
	"Sika"					
7	Prepare surfaces and apply 10 x 15mm deep "Sikaflex Pro 2HP" polyurethane sealant to joints					
		m	294			
10	"Sondor"					
8	Sondor Performance Foams Jointex low density (33kg/m³), cross linked, closed cell, expanded polyethylene joint former, size 85 x 10mm thick with tear off strip fitted to concrete surface with adhesive as per adhesive manufacturer's recommendation.					
		m	60		٠	
9	Sondor Performance Foams Jointex low density (33kg/m³), cross linked, closed cell, expanded polyethylene joint former, size 200 x 10mm thick with tear off strip fitted to concrete surface with adhesive as per adhesive manufacturer's recommendation.					
		m	42			
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10	Sondor Performance Foams Jointex low density (33kg/m³), cross linked, closed cell, expanded polyethylene joint former, size 315 x 10mm thick with tear off strip fitted to concrete surface with adhesive as per adhesive manufacturer's recommendation.					
		m	24	8	-	
11	Sondor Performance Foams Jointex low density (33kg/m³), cross linked, closed cell, expanded polyethylene joint former, size 270 x 10mm thick with tear off strip fitted to concrete surface with adhesive as per adhesive manufacturer's recommendation.					
		m	21			
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	ROOF COVERINGS, ETC.		9		
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			,	
	SUPPLEMENTARY PREAMBLES				
	All items are measured net unless otherwise described				
	Flashings, trimming plates, etc.				
	Prices to include for all cutting and waste and relevant fixing material, unless otherwise described		,		
	All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable				
	All items are unless otherwise described measured net				
	Roof:				
	The roof sheeting/side cladding shall be a double interlocking concealed-fix Saflok 700 profile roll-formed in continuous lengths and cut to length by pneumatic cut-off process from certified ZincAL 0,5mm steel. A ceritificate verifying compliance shall be issued by the manufacturer, Safintra roofing. The profile shall be roll formed with 4 ribs and centres not exceeding 233mm and a cover width not exceeding 700mm width. The male rib is to include spurs to ensure a double interlocking action with adjacent sheets. The minimum sheet depth will be 41mm. Two longitudinal stiffening ribs to be incorporated in each pan.				
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	Section No. 2 BUILDINGS (PROVISONAL) Bill No. 5 ROOF COVERING, ETC.				

Item No

	Roof Installer:					
	The roof shall be installed by a Safintra accredited and approved installer, who will present their accreditation to the Architects for their scrutiny before commencing					
	PROFILED METAL SHEETING AND ACCESSORIES					
,	Saflok 700 0,5mm Thick Colorplus AZ100, Colour to be confirmed, C.1.S finish with standard backing coat Cool Grey G550 interlocking roof sheeting with AZ100 spelter to both sides fixed to timber purlins not exceeding 1900mm centres and to ridge and eaves at not exceeding 1700mm centres. Saflok 700 ZincAL 0,8mm clips fastened with Fixtite Class 4 self tapping wafer head 10 x 22mm for timber fix all in accordance with manufacturer's recommendations.					
1	Roof coverings with pitches not exceeding 25 degrees	m2	528			
2	Head wall flashing 462mm girth, two times bent along girth.	m	9			
3	Ridge capping 462mm girth, three times bent along girth.	m	37			
4	Saflok metal broad flute closure	m	9			
5	Saflok Poly closures	m	9			
6	Side wall flashing 462mm girth, two times bent along girth.	m	17	v.		
7	Counter flashing 185mm girth, two times bent along girth.	m	26			
	ROOF AND WALL INSULATION			1		
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	ROOF COVERING, ETC.					

	"Isoboard" Thermal Insulation				
8	Roof insulation to be Isoboard® high density 32-36kg/m³ rigid extruded polystyrene 100% closed cell insulation boards 60mm thick x 600mm wide with brown paper and polyethylene laminate slip sheet factory applied to upper surface, with tongue & groove joints fixed concurrent with roof covering over timber purlins at maximum 1500mm centres with 5mm gap between boards butt-joined over purlins. Ridge vents are recommended to be allowed for in the roof covering (elsewhere specified) in order to prevent deflection due to heat build up above the boards.				
	Thickness: 60mm	500			
	Application: Roof insulation m2	528	*	,	
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CARPENTRY AND JOINERY				
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	à. ⁽⁰⁾			
b) SABS 1301 Particle board: interior type		5		
Joinery:		18		
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	45 2			
Fixing				
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete	2	- t		
Decorative laminate finish:		0		
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish				
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	EAVES, VERGES, ETC					
	"Everite FC77" pressed fibre-cement					
1	Everite high density plain ungrooved Nutec fascia boards (Code: 041-503), size 300 x 15mm, fixed to 38 x 38mm tilter batten and 38 x 38mm support battens between rafters twice screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with aluminium H-profile fascia joiner between boards and at board ends.	m	82			
	DOORS, ETC					
	40mm Thick semi-solid core flush doors with commercial veneer hung to steel frames					
2	Door 813 x 2400mm high	No	13			
3	Door 900 x 2400mm high	No	1	£		
	40mm Thick solid flush doors with commercial veneer hung to steel frames	-				
4	Double door size 1200 x 2400mm high with two equal leaves with rebated meeting stiles	No	2			
5	Double door size 1371×2400 mm high with two unequal leaves with rebated meeting stiles and one leaf with 400×500 mm opening fitted with 10×10 mm	12				
	wrought glazing beads on both sides	No	5	,		
	SUNDRIES					
6	Cut opening in 44mm solid door for louvre opening 300 x 300mm high	No	3			
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CEILINGS, ETC.		9		
For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			·	
SUPPLEMENTARY PREAMBLES				
<u>Descriptions:</u>		3		
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete				
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere				
SUSPENDED CEILINGS				
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	Lay Gyproc Gyprex® White 600mm x 600mm ceiling tile into the Gypframe™/DONN ceiling grid. Ceiling grid consisting of Gyproc/DONN Wall Angle (SM25/M6) fixed to the perimeter wall using fixings at 300mm centres. Space Gypframe™/DONN Main Tees T38 FR at 1200mm centres. Suspend main tees using Gyproc Prestretched Galvanised Hanger wire 2.5mm thick or Gyproc hanger strap 19mm at 1200mm centres. Gyproc Pre-stretched Galvanised Hanger wire shall be put through the main tees hole and would wind 3 times around itself. 2 steel pop-rivets or one Gyproc Wafer Head Tek screw 13mm shall be used to fix the hanger strap to the main tees web. Install Gypframe™/DONN Cross Tees T38V/T32V (1200 long) at 600mm centres to create a 1200mm x 600mm ceiling grid. Install Gypframe™/DONN Cross Tees T38V/T32 (600 long) into the 1200mm long cross tees to create a 600mm x 600mm grid. Main tee should be fixed to the wall using angle cleats. Install Isover 135mm thick Aerolite non-combustible light weight Glasswool thermal ceiling insulation, nominal density 12kg/m³.					
					-	
1	Ceilings suspended not exceeding 1m below timber/steel purlins at 900mm centres (trusses not exceeding at 1m centres)	m2	22			
	OWAcoustic®Sandila/N biologically absorbable mineral wool ceiling tiles, size 1200 x 600 x 15mm thick with square edge and white painted finish, laid on fire rated OWAconstruct® S3 exposed demountable T24 suspension system, comprising galvanised main tees and cross tees at with main tees suspended by means of galvanised hangers at centres not exceeding 1200mm with ceiling perimeter finished with OWAconstruct Perimeter L-trim, plugged and screwed at 200mm centres, and all installed to manufacturer's instructions.					
2	Ceilings suspended not exceeding 1m below timber/steel purlins at 900mm centres (trusses not exceeding at 1m centres)	m2	406			
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	"Gyproc" cornices to suspended ceilings				
3	Gyproc 47 x 35mm SM25 recessed shadowline wall angle (Code: 1965) plugged and screwed to wall.	408			
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	SUPPLEMENTARY PREAMBLES				_	2
	<u>Descriptions</u>			=		
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs	8		8		
	"EN-SUITE" LOCKS		-			
	TYPE 1 - BATHROOM AND KITCHEN					
1	Dorma "DDC056501" 65mm satin nickel double cylinder (not master keyed)	No	3		la l	
2	Dorma "CB30" satin chrome lever handle (S/C)	Pairs	3			
3	Dorma "D036" Cylinder lock case	No	3	3		
4	Dorma "DDS-NP-018" nickel plated door stop. (N/Plated)	No	3	3		(0)
5	Dormakaba non hold open TS 90 cam action slide channel door closer (Code: TS 90) with a closing force of EN 3/4 for maximum 1 100mm wide door.	No	3	3		
	TYPE 2 - DISABLED			**		
6	DORMA Stainless Steel bathroom deadlock (Code: DMWC-SS-008) with 55mm backset.	No		1		
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7	Dormakaba non hold open TS 90 cam action slide channel door closer (Code: TS 90) with a closing force of EN 3/4 for maximum 1 100mm wide door.	No	1			
8	Dormakaba TS 90 Angle Bracket for TS90 door closer - push side fixing	No	1		*	
9	DORMA Tubular straight Stainless Steel bolt through pull handle (Code: DPH301CBT), size 19mm diameter x 149mm long	No	1			_
10	DORMA grade 304 Stainless Steel plate size 75 x 170 x 1,2mm with counter-sunk fixing holes plugged and screwed with fixing screws.					
		No	1			
11	DORMA 52 x 52mm Stainless Steel square bathroom WC bolt set (Code: DWC-006).	Sets	1			
12	DORMA 200mm high x 900mm wide x 1,2mm thick Grade 430 Stainless Steel kick plate with ten (10) counter sunk holes for screw fixing					
		No	1			
13	DORMA "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		•	
14	DORMA "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.					
	aluminum solewo.	· No	1			
15	DORMA "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.					
	aluminum screws.	No	1			
16	DORMA Male/Female fixing screws	No	9			
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	TYPE 3 - WC	- 40					
17	Dorma DDWC-006 stainless steel WC indicator with 79mm turn knob for physically impaired. (St/Steel)	Pairs	3				
18	Dorma DPH301C 150 x 19mm stainless steel "D" shaped straight bolt through pull handle (St/Steel)	Pairs	3	ŀ			
19	Dorma DHC-SS-031B stainless steel hat and coat hook with rubber buffer. (St/Steel)	No	3	,			
20	Dorma DDS-NP-018 nickel plated floor stop. (N/Plated)	No	3				
	TYPE 4 - OFFICES AND STORES			-			
21	Dormakaba Tubular Stainless Steel 148mm long spring loaded lever handle in Stainless Steel finish (Code: TH122 cylinder).	No	7			,	
22	Dormakaba Stainless Steel narrow stile heavy duty swivel sash lock (Code: D07625) with 25mm backset.	No	7		,	N.	8
23	DORMA Satin Nickel 66mm master keyed double cylinder (Code: DDC106601).	No	7				283
24	DORMA Nickel Plated floor mounted door stop (Code: DDS-NP-018), size 24 x 45mm fixed in accordance with the manufacturer's recommendations.	No	7				
25	Dorma "DHC-SS-031B" stainless steel hat and coat hook with rubber buffer.	No	5				
	TYPE 5 - WARDS						
26	Dormakaba Stainless Steel floor mounted door stop (Code: DDS-SS-017), size 24 x 45mm fixed in accordance with the manufacturer's recommendations.	No	10				,,
27	150mm high x 1.2mm thick x 900mm long grade 304 satin finished stainless steel push plate.	No	5				
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28	150mm high x 1,2mm thick x 470mm long grade 304 satin finished stainless steel push plate.	No	5		
29	150mm high x 1.2mm thick x 900mm long grade 304 satin finished stainless steel push plate.	No	5		
30	300mm high x 1.2mm thick x 470mm long grade 304 satin finished stainless steel kick plate.	No	5	· · · · · ·	
31	Dormakaba non hold open TS 90 cam action slide channel door closer (Code: TS 90) with a closing force of EN 3/4 for maximum 1 100mm wide door.	No	10		-
32	DORMA Nickel plated Rebate conversion kit for Euro Profile locks	No	5	*	-
33	Dormakaba TS 90 Angle Bracket for TS90 door closer - push side fixing	No	10	= 0.	-
68	TYPE 6 - CUPBOARDS			- A	
34	150mm Wide x 250mm high x 1,2mm thick grade 304 satin finished stainless steel push plate.	No	2		
35	Dormakaba Stainless Steel floor mounted door stop (Code: DDS-SS-017), size 24 x 45mm fixed in accordance with the manufacturer's recommendations.	No	4		
36	Dorma "DDC056501" 65mm satin nickel double cylinder (not master keyed)	No	2		
37	Dorma "CB30" satin chrome lever handle (S/C)	No	2		
38	Dorma "D036" Cylinder lock case	No	2		× =
39	DORMA Nickel plated Rebate conversion kit for Euro Profile locks DO36S,D037D				
		No	2		
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40	"Electrical" engraved grade 304 Stainless Steel sign (Code: DSS-136), size $150 \times 150 \times 1,2$ mm with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	1	÷		
41	"Fire hose reel" engraved grade 304 Stainless Steel sign (Code: DSS-145), size $150 \times 150 \times 1,2$ mm with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	1	,		
	BATHROOM FITTINGS					
	"Franke"					
42	Franke BHM12P polished stainless steel double double towel rail (Code: 2120083), size 900 x 125mm deep, plugged and screwed to the wall with stainless steel screws.					
		No	1			
43	Franke Stratos STRX 672 1,2/1,5mm thick Grade 304 18/10 satin stainless steel toilet roll holders (code: 359716), size 304 x 156 x 140,7mm deep for 2 rolls maximum 108mm diameter with spindle system and cylinder lock with standard Franke key, plugged and screwed to the wall with stainless steel screws.	No	4			
44	Franke Stratos STRX 618 1,2/1,5mm thick Grade 304 18/10 satin stainless steel soap dispensers (code: 359705), size 304 x 100 x 134mm deep with a replaceable and refillable 1 litre container, cylinder lock with standard Franke key, plugged and screwed to the wall with stainless steel screws.	No	8			
45	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	8		li .	
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46	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.			, r		
		No	1			
47	Franke CNTX21 Grade 304 18/10 stainless steel 32mm diameter angle bar with Franke fine grip (Code: 2510008), size 415 x 415 x 95mm deep, plugged and screwed to the wall with stainless steel screws.					
		No	1			
	"Volkem Cleaning and Hygiene Solutions"		,			
48	Volkem satin finished stainless steel pedestal operated sanitary towel disposal bin (Code: SB008), with capacity of 20 litres, plugged and screwed to the wall with stainless steel screws.					
		No	3			
	PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC					
	"Vitrex".			g		
49	Vitrex "Code 2304" standard wall mounted educational range pinning board size 1500 x 1000mm high with Flortime Premier pinning surface, supplied complete with fixing components and secured to brickwork	No	. 11	,	·	
50	Vitrex "Code 2304" standard wall mounted educational range pinning board size 3000 x 1000mm high with Flortime Premier pinning surface, supplied complete with fixing components and secured to brickwork	No	1			
51	Vitrex "Code 2304" standard wall mounted white writing board size 1500 x 1000mm high with Flortime Premier pinning surface, supplied complete with fixing components and secured to brickwork	No	9			
			-			
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	Carried to Collection			R		
	Section No. 2 BUILDINGS (PROVISONAL) Bill No. 8 IRONMONGERY					

	SUNDRIES, ETC					
52	Interior stainless steel dividing strip in Stainless Steel finish, size 14 x 7mm x 2,5m fixed to substrate with silicone sealant (PC Amount R75-00/m Vat excl. supplied)	m	12			
	DOOR GRILLES					
	"Trox Technik" natural anodised aluminium finished louvres	-				
53	Trox or similar approved natural aluminium door louvre size 500 x 300mm high	No	4			
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	BUILDINGS (PROVISONAL) Bill No. 8 IRONMONGERY			и	*	
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8	Section No. 2				
E	BUILDINGS (PROVISONAL)		A)		
E	Bill No. 8				
ı	RONMONGERY		11		
2	COLLECTION				
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	Section No. 2 BUILDINGS (PROVISONAL) BIII No. 8 IRONMONGERY				

	Quantity	Rate	Amount	
SECTION NO 2				
BILL NO. 9				
STRUCTURAL STEELWORK				
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		1 ×		
Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete				
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete				
Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete. Where anchor bolts are described as embedded in sides or soffits of concrete it shall be deemed to include holes through formwork.				
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.				
STEEL COLUMNS AND BEAMS				
Carried to Collection	2		R	
Section No. 2 BUILDINGS (PROVISONAL) Bill No. 9 STRUCTURAL STEELWORK	9			
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Item No

						1
	Welded columns in single lengths with flat section base, and connection plates bolted to concrete		-			
1	75 x 75 x 4mm Thick square hollow section 4400mm high with 6mm fillet welding to top and bottom plates (plates e/m)				×	
	(plates offi)	No	1			
2	100 x 100 x 4mm Thick square hollow section 4400mm high with 6mm fillet welding to top and bottom plates (plates e/m)	No	4	i.		
	SUNDRY STEELWORK	20				
	Fixing plates, etc.	2		-		
3	150 x 150 x 10mm Thick top plate with four (4) x 250mm long Y16 fixing lugs, both lugs once bent and welded to					
	the top plate	No	2			
4	220 x 220 x 10mm Thick bottom plate with four (4) x 18mm diameter holes for bolts (e/m)	No	2			
5	$550 \times 150 \times 10$ mm Thick top plate with six (6) x 250mm long Y16 fixing lugs, both lugs once bent and welded to the top plate					
		No	1	- 8		
6	620 x 220 x 10mm Thick bottom plate with eight (8) x 18mm diameter holes for bolts (e/m)	No	1			
	Bolts to columns etc.			v .		
7.	M16 Chemical anchors fixed with HIT-HY 200 chemical					-
	system all in strict accordance to the manufacturer's strict instructions	No	16			
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	Carried to Collection Section No. 2		7	F	R	+
	BUILDINGS (PROVISONAL) Bill No. 9					
	STRUCTURAL STEELWORK					

Section No. 2			
BUILDINGS (PROVISONAL)			
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Bill No. 9 STRUCTURAL STEELWORK			

		Quantity	Rate	Amount	
	SECTION NO. 2	. –			
	BILL NO. 10				
	METALWORK				
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"				
	SUPPLEMENTARY PREAMBLES				
	<u>Descriptions</u>				
3	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				1
	ALUMINIUM WINDOWS, DOORS, ETC				
	AAAMSA guide		u .		
	All windows, doors, etc shall comply with and meet the minimum recommended performance requirements as set out in the General Specification for Architectural Aluminium and Glass Products (Third Edition) as published by the Association of Architectural Aluminium Manufacturers of South Africa (AAAMSA)				
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	BUILDINGS (PROVISONAL) Bill No. 10 METALWORK				

Item No

	<u>Finish</u>			19		
	The windows, doors, etc shall be natural anodised to a thickness of 25 micron and shall comply with SABS 999 and 1407		0			
	Glass				8 1	
	Glazing to be with patent rubber gaskets with glazing beads and comply with BS 952. Thickness of glass shall be in accordance with table 1 (Part N: Glazing). Safety glass shall comply with SABS 1263. The National Building Regulations shall be observed with regard to the specification of safety glass					
	Design indemnity					
	The contractor is to submit with his tender the "Form of Indemnity", annexed to this document, fully completed and signed					=
	<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					
	<u>General</u>					
8	Workshop drawings to be approved by the architect before manufacture					
	PRESSED STEEL DOOR FRAMES					
	1,2mm Double rebated frames suitable for half brick walls			-		
1	Frame for door 813 x 2400m high	No	11			
2	Frame for door size 1200 x 2400mm high	No	1			
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	Carried to Collection			F	`	-
	Section No. 2 BUILDINGS (PROVISONAL) Bill No. 10 METALWORK					,

3	Frame for door size 1371 x 2400mm high	No	5		s ·
	1,2mm Double rebated frames suitable for one brick walls		-		
4	Frame for door 813 x 2400mm high	No	2		
5	Frame for door 900 x 2400mm high	No	1		
6	Frame for door 1200 x 2400mm high	No	1		
	ALUMINIUM WINDOWS, DOORS, ETC.				
	Purpose made epoxy powder coated aluminium windows glazed with 6,38mm clear float glass and plugged to brickwork or concrete				
7	Purpose made window size 600 x 600mm high (PC Amount R1 100-00 each VAT excl. supplied, delivered and installed on site by an approved Specialist)	No	6		
8	Purpose made window size 900 x 1200mm high (PC Amount R3 240-00 each VAT excl. supplied, delivered and installed on site by an approved Specialist)	No	28		
9	Purpose made door size 2058 x 2400mm high (PC Amount R15 000-00 each VAT excl. supplied, delivered and installed on site by an approved specialist)				e .
		No	1		
10	Purpose made shopfront size 1933 x 2400mm high (PC Amount R14 000-00 each VAT excl. supplied, delivered and installed on site by an approved specialist)				
		No	1		
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	Carried to Collection			R	
	Section No. 2				
	BUILDINGS (PROVISONAL) Bill No. 10				
	METALWORK				

11	Purpose made shopfront size 2085 x 2635mm high (PC Amount R16 500-00 each VAT excl. supplied, delivered and installed on site by an approved Specialist)					
		No	1	i.e.		
12	Purpose made door size 1800 x 2400mm high (PC Amount R12 960-00 each VAT excl. supplied, delivered and installed on site by an approved Specialist)					
		No	3	1		
13	Purpose made shopfront size 2533 x 2635mm high (PC Amount R20 000-00 each VAT excl. supplied, delivered and installed on site by an approved specialist)	50				
		No	1			
14	Purpose made shopfront size 3485 x 2400mm high (PC Amount R25 000-00 each VAT excl. supplied, delivered and installed on site by an approved specialist)				*	
		No	1	3.		
15	Purpose made door size 5000 x 2635mm high (PC Amount R40 000-00 each VAT excl. supplied, delivered and installed on site by an approved specialist)					
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	BUILDINGS (PROVISONAL) Bill No. 10 METALWORK			4		

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1	BUILDINGS (PROVISONAL)				
	Bill No. 10				
	METALWORK	- 18			
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	Section No. 2				
	BUILDINGS (PROVISONAL) Bill No. 10		5		31
	METALWORK				

Item No			Quantity	Rate	Amount	
	SECTION NO. 2					
	BILL NO. 11					
	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		9 6	w ·		
	Screeds on concrete					
1	20mm Thick on floors and landings	m2	543			
	INTERNAL PLASTER			,		
	Cement plaster on brickwork			8		
2	On walls	m2	1,465			
3	On narrow widths	m2	25			
	EXTERNAL PLASTER					
				*:		
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	Section No. 2 BUILDINGS (PROVISONAL) Bill No. 11 PLASTERING			R		=

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	Cement plaster on brickwork			-			
4	On walls		m2	40			
5	On narrow widths		m2	15			
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BUILDINGS (PROVISONAL)			
Bill No. 11			
PLASTERING			
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SECTION NO. 2 BILL NO. 12 TILING For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371" WALL TILING 300 x 200 x 5mm Porcelain tiles flush pointed with inted jointing compound on brickwork including cement (PC R225.00/m2 Vat excl) 1 On walls m2 203 On narrow widths, etc. m2 2 3 On walls in isolated panels, splashbacks, etc m2 2 4 Fair exposed cutting and fitting around pipe not exceeding 100mm diameter No 12 Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter No 4 FLOOR TILING 500 x 500 x 5mm Matt porcelain floor files (PC R275.00/m2 VAT excl) fixed with Ceresit Tylon adhesive to screeds (screeds elsewhere) with straight joints in both direction flush pointed with Ceresit Tylon 33 timed jointing compound 6 On floors and landings m2 436 Carried to Collection R Section No. 2 BUILDINGS (PROVISONAL) BII No. 12 TILING	Item No			Quantity	Rate	Amount	
TILING For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371" WALL TILING 300 x 200 x 5mm Porcelain tiles flush pointed with tinted iointing compound on brickwork including cement (PC R225,00/m2 Vat excl) 1 On walls m zo 203 2 On narrow widths, etc. m2 2 3 On walls in isolated panels, splashbacks, etc m2 2 4 Fair exposed cutting and fitting around pipe not exceeding 100mm diameter No 12 5 Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter No 4 FLOOR TILING 500 x 500 x 5mm Matt porcelain floor tiles (PC R275,00/m2 VAT excl) fixed with Ceresit Tylon adhesive to screeds (screeds elsewhere) with straight joints in both direction flush pointed with Ceresit Tylon 33 tinted jointling compound 6 On floors and landings m2 436 Carried to Collection R Section No. 2 BUILDINGS (PROVISONAL) Bill No. 12		SECTION NO. 2	9	7.			
For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371" WALL TILING 300 x 200 x 5mm Porcelain tiles flush pointed with tinted iointing compound on brickwork including cement (PC R225,00/m2 Vat excl) 1 On walls m2 203 2 On narrow widths, etc. m2 2 3 On walls in isolated panels, splashbacks, etc m2 2 4 Fair exposed cutting and fitting around pipe not exceeding 100mm diameter No 12 5 Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter No 4 FLOOR TILING 500 x 500 x 5mm Matt porcelain floor tiles (PC R275,00/m2 VAT excl) fixed with Ceresit Tylon adhesive to screed's (screeds elsewhere) with straight joints in both direction flush pointed with Ceresit Tylon 33 tinted jointing compound 6 On floors and landings m2 436 Carried to Collection R R		BILL NO. 12					
Specification of material and methods to be used - PW371" WALL TILING 300 x 200 x 5mm Porcelain tiles flush pointed with tinted jointing compound on brickwork including cement (PC R225,00/m2 Vat exci) 1 On walls m2 203 2 On narrow widths, etc. m2 2 3 On walls in isolated panels, splashbacks, etc m2 4 Fair exposed cutting and fitting around pipe not exceeding 100mm diameter No 12 5 Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter No 4 FLOOR TILING 500 x 500 x 5mm Matt porcelain floor tiles (PC R275 00/m2 VAT excl) 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 436 Carried to Collection R Section No. 2 BUILDINGS (PROVISONAL) Bill No. 12		TILING					
300 x 200 x 5mm Porcelain tiles flush pointed with tinted jointing compound on brickwork including cement (PC R225.00/m2 Vat excl) 1 On walls		Specification of material and methods to be used -	٠				
tinted jointing compound on brickwork including cement (PC R225,00/m2 Vat excl) 1 On walls		WALL TILING					
On narrow widths, etc. On walls in isolated panels, splashbacks, etc Tair exposed cutting and fitting around pipe not exceeding 100mm diameter No Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter No FLOOR TILING 500 x 500 x 5mm Matt porcelain floor tiles (PC R275.00/m2 VAT excl) fixed with Ceresit Tylon adhesive to screeds (screeds elsewhere) with straight joints in both direction flush pointed with Ceresit Tylon 33 tinted jointing compound On floors and landings Carried to Collection R Section No. 2 BUILDINGS (PROVISONAL) Bill No. 12		tinted jointing compound on brickwork including cement					
On walls in isolated panels, splashbacks, etc Fair exposed cutting and fitting around pipe not exceeding 100mm diameter No Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter No FLOOR TILING 500 x 500 x 5mm Matt porcelain floor tiles (PC R275.00/m2 VAT excl) fixed with Ceresit Tylon adhesive to screeds (screeds elsewhere) with straight joints in both direction flush pointed with Ceresit Tylon 33 tinted jointing compound On floors and landings Carried to Collection R Section No. 2 BUILDINGS (PROVISONAL) Bill No. 12	1	On walls	m2	203			
Fair exposed cutting and fitting around pipe not exceeding 100mm diameter Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter No FLOOR TILING 500 x 500 x 5mm Matt porcelain floor tiles (PC R275,00/m2 VAT excl) fixed with Ceresit Tylon adhesive to screeds (screeds elsewhere) with straight joints in both direction flush pointed with Ceresit Tylon 33 tinted jointing compound On floors and landings Carried to Collection R Section No. 2 BUILDINGS (PROVISONAL) Bill No. 12	2	On narrow widths, etc.	m2	2			
exceeding 100mm diameter Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter No FLOOR TILING 500 x 500 x 5mm Matt porcelain floor tiles (PC R275.00/m2 VAT excl) fixed with Ceresit Tylon adhesive to screeds (screeds elsewhere) with straight joints in both direction flush pointed with Ceresit Tylon 33 tinted jointing compound On floors and landings Carried to Collection R Section No. 2 BUILDINGS (PROVISONAL) Bill No. 12	3	On walls in isolated panels, splashbacks, etc	m2	2	· ·		
FLOOR TILING 500 x 500 x 5mm Matt porcelain floor tiles (PC R275.00/m2 VAT excl) fixed with Ceresit Tylon adhesive to screeds (screeds elsewhere) with straight joints in both direction flush pointed with Ceresit Tylon 33 tinted jointing compound On floors and landings Carried to Collection R Section No. 2 BUILDINGS (PROVISONAL) Bill No. 12	4	Fair exposed cutting and fitting around pipe not exceeding 100mm diameter	No	12			
500 x 500 x 5mm Matt porcelain floor tiles (PC R275.00/m2 VAT excl) 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 Carried to Collection Section No. 2 BUILDINGS (PROVISONAL) Bill No. 12	5	Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	4			
R275.00/m2 VAT excl) fixed with Ceresit Tylon adhesive to screeds (screeds elsewhere) with straight joints in both direction flush pointed with Ceresit Tylon 33 tinted jointing compound On floors and landings Carried to Collection Section No. 2 BUILDINGS (PROVISONAL) Bill No. 12		FLOOR TILING					
Carried to Collection Section No. 2 BUILDINGS (PROVISONAL) Bill No. 12		R275.00/m2 VAT excl) fixed with Ceresit Tylon adhesive to screeds (screeds elsewhere) with straight joints in both direction flush pointed with Ceresit Tylon 33 tinted		a .	3		
Section No. 2 BUILDINGS (PROVISONAL) Bill No. 12	6	On floors and landings	m2	436	6		
Section No. 2 BUILDINGS (PROVISONAL) Bill No. 12							
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BUILDINGS (PROVISONAL) Bill No. 12		Carried to Collection			F	R	
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7	Skirting of 500 x 100mm high cut tile	m	174			
¥	500 x 500 x 5mm Terracota floor tiles (PC R250.00/m2 VAT excl) fixed with Ceresit Tylon adhesive to screeds (screeds elsewhere) with straight joints in both direction flush pointed with Ceresit Tylon 33 tinted jointing compound					
8	On floors and landings	m2	106			=
9	Skirting of 500 x 100mm high cut tile	m	45			
	EDGES, ETC.	,				
	Sundries					
10	Aluminium edge strip on top of cut skirting (PC Amount R55-00/m Vat excl. supplied and delivered to site)					
		m	238			
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Item No		Quantity	Rate	Amount
	SECTION NO. 2			
	BILL NO. 13			
	<u>GLAZING</u>			
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			
	GLAZING TO WOOD WITH PINNED ON BEADS (BEADS ELSEWHERE)		g	
	4mm Clear float glass			
1	Panes not exceeding 0,1 m2 and not exceeding 0,5m2 m2	1	2	
	MIRRORS, ETC			
120	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			
2	Mirror 600 x 900mm high with four (4) screws	10		
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Item No		Quantity	Rate	Amount
	SECTION NO. 2			
	BILL NO. 14		1	
	PAINTWORK			
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			
	ON FLOATED PLASTER			
	Plascon Double Velvet to interior new cement plaster (NW 200). 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 one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Double Velvet (VEL) with 2 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.			
1	On internal walls	1,283		
	Dulux Weatherguard modified acrylic paint (colour to be selected) to exterior cement plaster. Surface to be clean, dry and dust free with a moisture content of less than 15%. Prime surface with one coat Dulux Primer for New Plaster (Code: D36) with an overcoating time of 18 hours and finish with two coats Dulux Weatherguard (Code: D20), thinning the first coat up to 10% with water with an overcoating time of 4 hours.			
2	On external walls m	2 55		,
	ON SMOOTH CONCRETE			
	Carried to Collection		R	
	Section No. 2 BUILDINGS (PROVISONAL) Bill No. 14 PAINTING			

						1
- [Plascon Polycell Ripple Finish to interior new cement					
	plaster (NW 241).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 one				100	
	coat Plascon Plaster Primer (UC 56) with an overcoating					
	time of 16 hours and finish with two coats Polycell					
	Ripple Finish (990101) with 16 hours drying time					
	between coats, for a maintenance cycle of 7 years in a					
	C1 - inland environment.		- 1	_		
	OT MINISTER STATE OF THE STATE					
3	On concrete soffits	m2	110			
				0.60		
	Prepare and apply one coat "Plascon" universal		15			
	undercoat and two coats "Plascon Polvin" exterior		a			
	quality acrylic paint					
4	On concrete columns	m2	3		10 °	

	ON FIBRE-CEMENT					
	OH I I I I I I I I I I I I I I I I I I I					
	Plascon Professional Gloss Enamel to exterior new fibre		1			
	cement (NW 172).Surface to be dry, sound and clean,	-				
	with a moisture content, measured with a Doser	=				
	Hygrometer (or equivalent), of BD 2 scale - 8% or less.					
	Prime with one coat of Professional Primer (PP 700)					
	with an overcoating time of 16 hours and finish with two					
	coats of Professional Gloss Enamel (PSB 800) with 16				-	- No
	hours drying time between coats, for a maintenance					
	cycle of 2 years in a C1 - inland environment.					
	9,000 0.12 1,000 0.00					
5	On fascias and barge boards not exceeding 300 mm					
	girth	m2	28			
	ON WOOD					
					100	
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	BUILDINGS (PROVISONAL)					
	Bill No. 14					
	PAINTING					
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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 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.					
6	On doors	m2	106			
61	ON METAL					
	Remove all loose factory primer rust millstrate, etc. prepare and apply one coat Namelcote Zinc Chromate Metal primer (US.53), apply one coat of Merit Undercoat (UC.1), and two coats "Plascon Super Universal Enamel" paint (Colour: PWD G18)					
7	On door frames	m2	42			
8	On columns and beams	m2	6			
9	On rails, bars, pipes, etc not exceeding 300 mm girth	m	4			
	PAINTWORK ETC TO PREVIOUSLY PAINTED WORK					
	ON METAL					
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	Section No. 2 BUILDINGS (PROVISONAL) Bill No. 14 PAINTING				,	

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	Plascon Velvaglo Satin to exterior new galvanised steel. Surface to be dry, sound and clean. Apply Metalcare Galvanised Iron Cleaner (GIC 1) to all bare galvanised areas. Allow to react for 1 minute and rinse off with tap water using bristle brush or Scotch Brite pads to remove all surface contaminants, until surface is water break-free. Prime with one coat Metalcare Galvanised Iron Primer (GIP 1) with an overcoating time of 24 hours and finish with two coats Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 12 years in a(environment condition)					
10	On door fames	m2	12			
11	On windows and burglar bars	m2	44			
	ON FLOATED PLASTER					
	Prepare and apply one coat Merit Plaster Primer (UC. 56) thinned 20% with Spick & Span Mineral Turpentine (AZH.1), stop with interior Pollyfilla and apply one coat of "Plascon Vevaglo" polyurethane Velvet Enamel Paint on previously painted walls in good condition (Colour: Tequilla VLO 10) or similar approved					
12	On external walls	m2	211			
	ON WOOD					
	Prepare and apply one "Plascon" universal undercoat for all surfaves and two coats "Plascon Velvaglo" paint on previously painted surfaces in good condition (Colour: Clay Store CLO)					
13	On doors	m2	8	_		
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	Plascon Woodcare Clear Varnish to existing solvent based coated exterior wood.Remove loose and peeling paint by scraper or hand sanding. Feather edges and dust off. Spot prime bare areas with Wood Varnish (thinned 20% with Mineral Turpentine).Ensure surfaces are clean, dry and sound. To determine the moisture content, use a Doser Hygrometer scale A1 - A5 (or equivalent) depending on generic wood type.Measurements should be <14% before painting. Sand wood to a smooth finish with 150 grit paper in direction of grain. Dust off. Finish with two coats Woodcare Clear Varnish (CVE 5) with 16 hours drying time between coats, for a maintenance cycle of 2 years in a C1 - inland environment.				
14	On doors m2	6		2	
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3	MASONRY	51		
4	WATERPROOFING	55		
5	ROOF COVERING, ETC.	59		
6	CARPENTRY & JOINERY	62		
7.	CEILINGS, ETC.	66		
8	IRONMONGERY	74		
9	STRUCTURAL STEELWORK	77		
10	METALWORK	82		
11	PLASTERING	85		
12	TILING	88		
13	GLAZING	89		
14	PAINTING	95		7
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SECTION 3: PLUMBING & DRAINAGE

Item			Quantity	Rate	Amount	
No	SECTION NO. 3					
	BILL NO. 1			* *		
	RAINWATER DISPOSAL					
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"	ē				
	RAINWATER DISPOSAL	75				
	0,9mm Thick epoxy coated externally seamless aluminium gutters in standard lengths, butt strap joints riveted and silicone sealed, including cut and mitred angles, stop ends riveted and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement fascia with external brackets					
1	125 x 150 x 125mm Eaves gutters	m	82		*	
2	75 x 100mm Rainwater pipes	m	21			
3	Extra over rainwater pipe for eaves or plinth offset 450mm projection	5				
		No	. 6	_ 3	,	
4	Extra over 75 x 100mm rainwater pipe for shoe	No	6	-		
5	Extra over eaves gutter for opening for 75 x100mm downpipe	No	6		1	
6	Extra over eaves gutter for stopped ends	No	2			
	Cast iron pipes					
7	110mm Diameter rainwater pipes	m m	22			
	Carried to Collection			R		_
	Section No. 3 PLUMBING & DRAINAGE (PROVISIONAL) Bill No. 1 RAINWATER DISPOSAL			, K		

	Extra over cast iron pipes for fittings			-		
8	Extra over cast iron rainwater pipe for shoe	No	6			
	"Fulbore" cast iron outlets					
9	Saint Gobain Pipelines South Africa 110mm 180° vertical roof outlet eared with dome grate code 03530.	No	6			
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	Bill No. 1 RAINWATER DISPOSAL					
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RAINWATER DISPOSAL			-	

Item No			Quantity	Rate	Amount	-
	SECTION NO. 3					
	BILL NO. 2					
	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 Hibiscus Elite vitreous china close coupled suite colour White (Code: 772401WH), overall size 643 x 355 x 830mm high with Hibiscus Jazz thermoset seat (Code: 8531Z000), comprising 90° outlet open rim pan (Code: 772300WH) with matching 6/3 litre top dual flush cistern (Code: 7373DT) including lid and fitments.	No	;	3		
2	Vaal Sanitaryware Protea Paraplegic vitreous china floor mounted paraplegic washdown suite colour White (Code: 750246WH), 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		1		
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	Section No. 3 PLUMBING & DRAINAGE (PROVISIONAL) Bill No. 2 SANITARY FITTINGS			W W		

4	Vaal Sanitaryware Cameo ceramic fireclay drop-in vanity basin colour White (Code: 702803WH), overall size 595 x 455 x 205mm with one taphole including chainstay hole and flexible overflow tube attachment (Code: 8784Z000)(basin waste text)(basin waste code prefix)(basin waste code)(basin waste code suffix), fitted into opening in vanity top and sealed with silicone sealant where basin rim meets vanity top.	No	4		
5	Vaal Sanitaryware Sola 510 ceramic vitreous china medical basins colour white (Code:703700), overall size 510 x 400 x 170mm high, fixed to wall on and including concealed wall bracket (Code: 8448Z0) and sealed with silicone sealant where basin meets wall.	No	5		
6	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	1		
	"Franke"				
7	Franke Cascade Model CDX671 Grade 304 18/10 polished stainless steel double bowl inset sink (Code: 1990019), overall size 1360 x 500mm with two 343 x 410 x 157mm deep and 160 x 280 x 139mm deep bowl, fitted onto cupboard (elsewhere specified).				
		No	1		
	WASTE UNIONS ETC				
	"Cobra Watertech"				
8	"Cobra Ref. 316" sink waste with 70mm diameter flange, 45mm long shank, backnut, plug and chain	No	2	21	
9	Cobra Watertech 32mm chrome plated anti-theft plug with spindle (Code: 309-32).	No	10		
10	Cobra Watertech 32mm chrome plated slotted basin waste union (no chain or stay) (Code: 303)	No	10		
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	SANITARY FITTINGS				

TRAPS ETC "Marley" 10 A0 x 300mm Sink combination for double bowl with deepseal "P" trap "Cobra Watertech" 11 Cobra Watertech 40mm chrome plated bottle trap (Code: 365-50) with 75mm deep re-seal, adjustable telescopic pipe and 50mm outlet. 12 No 11 No 11 Carried to Collection Section No. 3 PLUMBING & DRAINAGE (PROVISIONAL) Bill No. 2 SANITARY FITTINGS							6	
40 x 300mm Sink combination for double bowl with deepseal "P" trap "Cobra Watertech" 12 Cobra Watertech 40mm chrome plated bottle trap (Code: 365-50) with 75mm deep re-seal, adjustable telescopic pipe and 50mm outlet. No 11 Carried to Collection Section No: 3 PLUMBING & DRAINAGE (PROVISIONAL) Bill No: 2		TRAPS ETC					·	
deepseal "P" trap "Cobra Watertech" Cobra Watertech 40mm chrome plated bottle trap (Code: 385-50) with 75mm deep re-seal, adjustable telescopic pipe and 50mm outlet. No 11 Carried to Collection Section No. 3 PLUMBING & DRAINAGE (PROVISIONAL) Biil No. 2		"Marley"						
Cobra Watertech 40mm chrome plated bottle trap (Code: 365-50) with 75mm deep re-seal, adjustable telescopic pipe and 50mm outlet. No 11 Carried to Collection Section No. 3 PLUMBING & DRAINAGE (PROVISIONAL) Bill No. 2	11	40 x 300mm Sink combination for double bowl with deepseal "P" trap	1	No	1			
Code: 365-50) with 75mm deep re-seal, adjustable telescopic pipe and 50mm outlet. No 11 Carried to Collection Section No. 3 PLUMBING & DRAINAGE (PROVISIONAL) Bill No. 2		"Cobra Watertech"						
Section No. 3 PLUMBING & DRAINAGE (PROVISIONAL) Bill No. 2	12	Cobra Watertech 40mm chrome plated bottle trap (Code: 365-50) with 75mm deep re-seal, adjustable telescopic pipe and 50mm outlet.	1	No	11	1		
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SANITARY FITTINGS			

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	SANITARY PLUMBING	2				
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"					
	SANITARY PLUMBING		63 = =			
	uPVC, soil and vent pipes					
1	50mm Pipes	m	6			
2	110mm Pipes	m	2			
3	50mm Pipes chased into brickwork	m	90	24		
4	110mm Pipes chased into brickwork	m	12	a £	30	
5	50mm Pipes laid in and including trenches not exceeding 1m deep below surface beds	m	76			
6	110mm Pipes laid in and including trenches not exceeding 1m deep below surface beds	m	22			
	Extra over uPVC, soil and vent pipes for fittings		*			
7	50mm BSP adaptor	No	11			
8	50mm Reducer	No	2			
9	50mm Bend	No	4			
10	110mm Bend	No	4			
11	110mm P-trap	No	1	-		
12	110mm Pan connector	No	4			
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13	50mm Junction	No	1			
14	110mm Junction	No	1			
15	50mm Access bend	No	2			
16	110 x 50 x 110mm Reducing junction	No	1			
17	110mm Access bend	No	1			
18	50mm Access junction	No	2			
19	110mm Access junction	No	2			
20	110mm Access bend with anti-syphon horn	No	2			
21	110 x 110 x 50mm Access reducing junction	No	1			
22	110 x 50 x 110mm Access reducing junction	No	1	ı		
23	110mm Eccentric reducer	No	3			
24	110 x 50 x 50mm Double reducing access junction	No	1			
25	110 x 50 x 50mm Double reducing junction	No	1			
26	110mm Access double junction	No	1	٠		
27	110mm Air vent cowl	No	1	2		
28	110mm GI vent valve	No	1			
	<u>Sundries</u>			5), 9)		
29	Unreinforced concrete encasing to 50mm horizontal pipe	m	8	×		
30	Unreinforced concrete encasing to 110mm horizontal pipe	m	6	*	Y	*
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WATER SUPPLIES			
For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			
SUPPLEMENTARY PREAMBLES			
"Polycop" polypropylene pipes:	a		
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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Section No. 3 PLUMBING & DRAINAGE (PROVISIONAL) Bill No. 4 WATER SUPPLIES			

Item No

	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					
	All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions					
	All pipe diameters are nominal external			v		
	WATER SUPPLIES		63			
	The following in trenches for pipes (pipes e/m)			-		
1	Excavation not exceeding 2m deep	m3	114			
2	Risk of collapse to sides of trench and hole excavations not exceeding 1,5m deep	m2	228			
3	Backfilling to trenches, holes, with materials obtained from excavations compacted in 150mm layers to 90% Mod AASHTO density	m3	63	a.	,	
	The state of the s					١.
4	Backfilling to trenches, holes, with selected materials obtained from excavations compacted in 150mm layers to 90% Mod AASHTO density to form fill blanket	m3	17			
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5	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	17			
6	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	17			
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	Section No. 3 PLUMBING & DRAINAGE (PROVISIONAL) Bill No. 4					
	WATER SUPPLIES					

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7	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	51			
8	Keeping excavations free of water		Item			
	Class 12 black HDPE high density polyethylene pipes with and including "Plasson" compression fittings					
9	22mm Pipes laid in trenches not exceeding 1m deep (trench e/m)	m	44			
10	22mm Pipes laid in trenches under floors not exceeding 1m deep (trench e/m)	m	23			
11	32mm Pipes laid in trenches not exceeding 1m deep (trenches e/m)	m	. 22			
12	32mm Pipes laid in trenches under floors not exceeding 1m deep (trenches e/m)	m	25			
	Extra over class 12 uPVC pressure pipes for fittings with solvent welded joints					
13	32mm Bend	No	3			
14	22mm Fittings	No	5	6		
15	32mm Elbow	No	1			
16	32mm Tee	No	1			
17	32mm Junction	No	1			
18	32 x 22 x 32mm Reducing junction	No	2			
19	32 x 22mm Reducer	No	2	W	s	
	Class 0 copper pipes	v				
20	15mm Pipes	m	56			-
21	22mm Pipes	m	33			
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	Section No. 3 PLUMBING & DRAINAGE (PROVISIONAL) Bill No. 4 WATER SUPPLIES					
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1		1	1		1	. 1	
;e	Extra over class 0 copper pipes for capillary fittings						
22	15mm Fittings	No	32			12	
23	22mm Fittings	No	. 11				
	TAPS, VALVES, ETC					2	-20
	"Cobra Watertech"						
24	Cobra Watertech 15mm MI x FI x 50mm long extension piece (Code: 057-15).	No	2				
25	Cobra Watertech 15mm chrome plated medical wall mounted medical mixer (Code 515/055H-21) with neck swivel outlet manufactured in accordance with SANS 226:2009 Type 2 (BS 5412).	No	5				
26	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				
27	Cobra Watertech 15mm BSPT stub taper threaded FI x FI cast brass heavy duty fullway gate valve with non-blowout, non rising spindle, non-asbestos gland packing, guided wedge and red pressed steel hand wheel (Code: 1001-125-15mm).	No	2				
28	Cobra Watertech Chrome Slimline Junior Flushmaster exposed flush valve (Code: FJS6-000), installed in accordance with the manufacturer's recommendations.	No	1				=
29	Cobra Watertech chrome plated 15mm diameter outlet x 215mm long with 27mm offset offset urinal flush pipe (Code: FJT5-5).	No	1				,,
30	Cobra Watertech Metering Chrome pillar tap (Code: KM2-100), manufactured in accordance with SANS 1808-9, installed in accordance with the manufacturers recommendations.	No	4				
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ž.	PLUMBING & DRAINAGE (PROVISIONAL) Bill No. 4 WATER SUPPLIES		,				

31	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).	No	1			
32	Cobra Watertech 22mm C x C cast brass heavy duty fullway gate valve with non-blowout, non rising spindle, non-asbestos gland packing, guided wedge and red pressed steel hand wheel (Code: 1002-125-20mm).	No	4		-	
33	Cobra Watertech 15mm angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).	No	9	z		
	ELECTRIC WATER HEATERS					
	"Kwikot"	± (a				
34	Kwikot 2,5 litre Stainless steel KwikBoil water boiler (Code: KWIKBOIL-2,5-S/S), size 275 x 165 x 365mm high with stainless steel tank, steam free boiling water, electronic controls, 15mm overflow, Stainless Steel drip tray (code: KB-SSTRAY), connected to 15mm cold water supply including isolating valve and 230 volt 1800 watt electrical power supply, plugged and screwed to wall and fitted under 1 year warranty.	No	1	, , , , , , , , , , , , , , , , , , ,		
	FIRE APPLIANCES ETC					
	"Chubb"				50	
35	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	3			
. 36	"Everyway" hose reel complete with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	. 1			
	WATER SUPPLIES TO FIRE APPLIANCES					
	Galvanised steel pipes		,			
37	25mm Pipes	m	1			
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	Section No. 3 PLUMBING & DRAINAGE (PROVISIONAL) Bill No. 4 WATER SUPPLIES					
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Extra over galvanis	ed steel pipes for	steel fittings					
25mm Fittings			No	1			
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	SOIL DRAINAGE				
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			9	
	SUPPLEMENTARY PREAMBLES				
	uPVC pipes and fittings:				
	Soil, waste and vent pipes and fittings shall be solvent weld jointed				
8	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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	PLUMBING & DRAINAGE (PROVISIONAL) Bill No. 5				
	SOIL DRAINAGE		5		

	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						
	<u>uPVC Underground drain pipes including couplings in</u> <u>the running lengths</u>						
1	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	2			=	
2	110mm Pipes laid in and including trenches not exceeding 1m deep	m	4				
3	110mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	45				
	Extra over uPVC pipes for fittings						
4	110mm Bend	No	3				
5	110mm Junction	No	2				
	uPVC gulleys						
6	110mm Gulley not exceeding 750mm deep, incl of precast concrete sorround, excavation etc.	No	1				
W.	Precast concrete circular inspection chambers, with and including manhole cover and frame, excavations, backfilling etc.						
7	Inspection chamber 1000mm diameter and exceeding 750mm and not exceeding 1000mm deep internally	No	1				
		20			-		-
	Carried to Collection			6	R		
	Section No. 3 PLUMBING & DRAINAGE (PROVISIONAL) Bill No. 5 SOIL DRAINAGE		· ·	9	,		

	SUNDRIES					
8	110mm "ABC" cleaning eye end of pipe	No	1		0.00	I.
9	Cutting into existing 110mm drain pipe for and forming junction with 160mm pipe	No	1	98	-	
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SOIL DRAINAGE	PLUMBING & DRAINAGE (PROVISIONAL)		
	SOIL DRAINAGE		

Item No	*	Quantity	Rate	Amount	
	SECTION NO. 3				
	BILL NO. 6				
	WORK IN CONNECTION WITH SECTION BILL 2 TO 5				
	BUILDER'S WORK	-			
	<u>Builder</u>		-	*	
1	Leave or form opening through one brickwall for pipe n.e 100mm diameter No	10			=
2	Leave or form opening through one brickwall for pipe exceeding 100 and not exceeding 200mm diameter No	5			
	TESTING				
3	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			
4	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	ו		
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	Carried Forward to Summary of Section No. 3		R		
	Section No. 3 PLUMBING & DRAINAGE (PROVISIONAL) Bill No. 6				
	WORK I.C.W BILLS 2 TO 5				

	Section No. 3				
	PLUMBING & DRAINAGE (PROVISIONAL)				
Bill No	SECTION SUMMARY - PLUMBING & DRAINAGE (PROVISIONAL)	Page No		Amount	
1	RAINWATER DISPOSAL	99			
2	SANITARY FITTINGS	103			
3	SANITARY PLUMBING	106			
4	WATER SUPPLIES	113			
5	SOIL DRAINAGE	117			
6	WORK I.C.W BILLS 2 TO 5	118			
	Carried to Final Summary Section No. 3 PLUMBING & DRAINAGE (PROVISIONAL)		R		

SECTION 4: SITE WORKS

Item No			Quantity	Rate	Amount	
	SECTION NO. 4					
	BILL NO 1					
	EARTHWORKS (PROVISIONAL)					
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"					
	<u>EARTHWORKS</u>					
	ALTERATIONS					
	REMOVAL OF EXISTING WORK					
	Breaking down and removing brickwork etc					
1	One and half brick wall including carting away of excavated material to a dumping ground to be located by the contractor	m2	26			
	Breaking up and removing mass concrete	£				
2	Dig approximately 750mm deep and remove concrete strip footing size approximately 700 x 300mm deep including carting away of excavated material to a dumping ground to be located by the contractor	m	18			
3	Dig up and remove manhole size approximately 1500 x 1500 x 700mm deep including carting away of all rubble, debris to a dumping ground located by the contractor	No	1			
	RELOCATION OF SERVICES, ETC.			-		
	Note: Rates for new item associated with re-location and re- connection will be based on items measured in the Plumbing and Drainage Section					
						\top
	Carried to Collection Section No. 4			R		+
	SECTION NO. 4 SITE WORKS (PROVISIONAL) Bill No. 1 BULK EARTHWORKS					

						1
4	Excavate and expose soil drainage pipes, disconnect, plug, and seal, (re-connection and re-location e/m)	No	1			
5	Excavate and expose water line, disconnect, plug, and seal, (re-connection and re-location e/m)	No	1			
	BULK EXCAVATION, FILLING, ETC					
	Open face excavation in earth over sloping site					
6	Open face excavation	m3	1,280			
	Extra over bulk excavation in earth for excavation in	j.				
7	Soft rock	m3	13			
8	Hard rock	m3	26			
5	Extra over all excavations for carting away					
9	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	1,280			
	Risk of collapse of excavations					
10	Sides of bulk excavations not exceeding 1,5m deep	m2	255		to the state of th	
11	Sides of bulk excavations exceeding 1,5m deep	m2	26			
	Keeping excavations free of water					
12	Keeping excavations free of all water other than subterranean water		Item			
	Earth filling of G7 material supplied by the contractor not compacted)					
13	Over site to form platforms laid in 150mm thick layers (compaction e/m)	m3	1,370			
			25			+
	Carried to Collection			F	R	_
	Section No. 4 SITE WORKS (PROVISIONAL) Bill No. 1 BULK EARTHWORKS					
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		-				
	Compaction of surfaces					
14	Compaction of ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density (layer 1)	m2	830			
15	Compaction of ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density (layer 2)	m2	830			
16	Compaction of ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density (Layer 3)	m2	830		,	
		1112	030			
17	Compaction of ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density (Layer 4)	m 2	830		-	
	e	m2	630			
18	Compaction of ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density (Layer 5)	m2	830			
			e.			
19	Compaction of ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density (Layer 6)					
		m2	830			
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	Section No. 4 SITE WORKS (PROVISIONAL)					
	Bill No. 1					
	BULK EARTHWORKS					
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20	Compaction of ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density (Layer 7)	m2	830	- 8		
21	Compaction of ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density (Layer 8)	m2	830			
22	Compaction of ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density (Layer 9)	m2	830			
23	Compaction of ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density (Layer 10)	m2	830		v	
24	Compaction of ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density (Layer 11)	m2	830			
	Prescribed density tests on filling				50	
25	"Mod. AASHTO Density" test	No	88			
	Section No. 4 SITE WORKS (PROVISIONAL) Bill No. 1			R		
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BULK EARTHWORKS			

Item No			Quantity	Rate	Amount
	SECTION NO. 4				
	BILL NO. 2				
	APRONS AROUND BUILDINGS				
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"	3			
	<u>EARTHWORKS</u>				
	Compaction of surfaces		,		
1	Compaction of ground surface under aprons including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	215		
	Prescribed density tests on filling				
2	"Mod. AASHTO Density" test	No	4		
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	25 MPa/20 mm concrete				
3	Aprons cast in panels to falls	m3	19		
4	Stormwater channels cast in panels	m3	9	ta-	
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a wood float				
5	Aprons to falls	m2	143		
			4	-	
	Carried to Collection			,	٦
	Section No. 4 SITE WORKS (PROVISIONAL) Bill No. 2 APRONS AND STORMWATER CHANNELS				

		720			£	
7.	Grooves, channels, mortices, sinkings, etc. in concrete					
6	Segmental channel with radius 290mm and minimum depth of 100mm on top of concrete, incl. all excavations, cart away etc.	m	143		n e	
	SMOOTH FORMWORK (DEGREE OF ACCURACY II)					
	Smooth formwork to sides					
7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	287			
	TEST CUBES					
8	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	6			
	MOVEMENT JOINTS ETC					
	"Sondor"					
9	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	287		,	
	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.	-		a "		
10	10 x 10mm In expansion joints including raking out of expansion joint filler as necessary	m	287			
	REINFORCEMENT					
		9				1
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	Section No. 4 SITE WORKS (PROVISIONAL) Bill No. 2					
	APRONS AND STORMWATER CHANNELS					

Fabrio reinforcement Steeledale Mesh standard square fabric mesh, nominal mass 2,45 kg/m² with nominal 5,6mm thick wires and 200 x 200mm pitch (Ref 245), complying with SANS 1024/2006 requirements, cut 1000mm wide m 143 Steeledale Mesh standard square fabric mesh, nominal mass 2,45 kg/m² with nominal 5,6mm thick wires and 200 x 200mm pitch (Ref 245), complying with SANS 1024/2006 requirements cut 500mm wide and shaped to cater for channel m 143 Carried to Collection m 143 Carried to Collection Section No. 4 SITE WORKS (PROVISIONAL) Bill No. 2 APRONS AND STORMWATER CHANNELS	•						
mass 2,46 kg/m² with nominal 5,6mm thick wires and 200 x 200mm pitch (Ref 245), complying with SANS 1024/2008 requirements, cut 1000mm wide m 143 12 Steeledale Mesh standard square fabric mesh, nominal mass 2,48 kg/m² with nominal 6,5mm thick wires and 200 x 200mm pitch (Ref 245), complying with SANS 1024/2006 requirements cut 500mm wide and shaped to cater for channel m 143 Carried to Collection m 143 Carried to Collection Section No. 4 SITE WORKS (PROVISIONAL) Bill No. 2		Fabric reinforcement			- 1		
mass 2,45 kg/m² with nominal 5,5mm thick wires and 200 x 200mm pitch (Ref 245), complying with SANS 1024/2006 requirements cut 500mm wide and shaped to cater for channel m 143 Carried to Collection R Section No. 4 SITE WORKS (PROVISIONAL) Bill No. 2	11	mass 2,45 kg/m² with nominal 5,6mm thick wires and 200 x 200mm pitch (Ref 245), complying with SANS	m	143			
Section No. 4 SITE WORKS (PROVISIONAL) Bill No. 2	12	mass 2,45 kg/m² with nominal 5,6mm thick wires and 200 x 200mm pitch (Ref 245), complying with SANS 1024/2006 requirements cut 500mm wide and shaped to	m	143			
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	SECTION NO. 4				
	BILL NO. 3				
	RETAINING WALLS			ÿ	
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"				
	SUPPLEMENTARY PREAMBLES				
	Nature of ground			et .	
	Use "assumed to be" if no trial holes, soils investigations, etc have been carried out - discuss with engineer. Use "Trial holes indicate that" where the ground has been investigated by means of trial holes			e e	
	Nature of ground				
	A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured				
	Carting away of excavated material				
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site				
	Carried to Collection		F	2	
	Section No. 4 SITE WORKS (PROVISIONAL) Bill No. 3				
	RETAINING WALLS				

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	Cost of tests				*			M A	
	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 to the approval of the architect. (Test cubes are measured separately)							1	
	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	n							
	Face bricks					U			
	Bricks shall be ordered timeously to obtain uniformity in size and colour				¥				
	Pointing								
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc	а							
	EXCAVATIONS								
	Excavation in earth not exceeding 2m deep								
1	Trenches	m3	a.	93					
154	Extra over all excavations for carting away	11						3	
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	ř	93					
	Risk of collapse of excavations								
3	Sides of trench and hole excavations not exceeding 1,5m deep	m2	_	85					
	Carried to Collection Section No. 4 SITE WORKS (PROVISIONAL) Bill No. 3					R			_
	RETAINING WALLS								

4	Sides of trench and hole excavations exceeding 1,5m deep and not exceeding 3m deep	m2	28			
	Keeping excavations free of water				n ⁿ	
5	Keeping excavations free of water		Item			
	FILLING ETC				_	
	Clean, coarse river sand filling supplied by the contractor, laid in 150mm layers and compacted to 100% Mod Aashto Density test			-		
6	Under concrete footings for form platforms	m3	16	7		
7	Behind retaining walls	m3	25		*	
8	Backfilling to trenches, holes, etc	m3	18			
	Compaction of surfaces					=
9	Compaction of ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	53			
	Prescribed density tests on filling				₹	
10	"Mod. AASHTO Density" test	No	10			
	SOIL POISONING					
	Soil insecticide to be executed with SABS compliance by a firm of specialists under a 5 year guarantee					
11	To bottoms and sides of trenches etc	m2	166			
	Weedkiller mixed in accordance to supplier's specifications					
12	To bottoms and sides of trenches etc	m2	166			
	CONCRETE, FORMWORK AND REINFORCEMENT					
	Carried to Collection			F	R	
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	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES					
	15MPa/19mm concrete	-				
13	Surface blinding under footings and bases	m3	1			
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES					
	30MPa/20mm concrete			13		
14	Strip footings	m3	8			
	REINFORCEMENT					
	Mild steel reinforcement to structural concrete work				est.	
15	10mm Diameter bars	t	0.37			
	High tensile steel reinforcement to structural concrete work					
16	16mm Diameter bars	t	0.55			
	High tensile steel dowel bars					
17	16mm Diameter dowel bar 1000mm long with 500mm drilled into (and icluding drilling) into existing concrete and covered with wet dry epoxy a.b.e epidermix 396 or similar approved and the remaining 500mm length left to join with new concrete	No	10			
	Sundries, etc.			,		
18	Prepare and apply wet dry epoxy a.b.e epidermix 396 or similar approved on existing concrete surfaces	m2	0.3			
	TEST CUBES					
19	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	10			
				8		
	Carried to Collection			F	R	
	Section No. 4 SITE WORKS (PROVISIONAL) Bill No. 3 RETAINING WALLS					

	MASONRY						
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar	*					
20	One brick walls	m2	11				
21	One brick walls in foundations	m2	4				
22	345mm Solid walls	m2	34				
23	345mm Solid walls in foundations	m2	8				
	BRICKWORK SUNDRIES						
=	Brickwork reinforcement						
24	150mm Wide reinforcement built in horizontally	m	175				
25	230mm Wide reinforcement built in horizontally	m	496				
	Weep holes:						
26	Leave or form opening through one brickwall for pipe n.e 100mm diameter	No	8		-6		
	Protection material, etc.					×	
27	10mm Bitumen impregnated soft board built in vertically against walls as protective barrier	m2	57			e	
	Bagging of 1:3 cement and sand mixture						
28	On brick walls, etc.including removing fins, irregularities, etc.	m2	57				
	FACE BRICKWORK						
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	Face bricks pointed with recessed horizontal and flush vertical joints (PC Amount R 10 000-00/1000 Vat exclusive supplied and delivered to site)			, .		
29	Extra over brickwork for face brickwork	m2	45			
	Brick-on-edge header course copings, sills, etc of face bricks pointed with recessed joints on all exposed faces (PC Amount R10 000-00/1000 Vat exclusive supplied and delivered to site)	7				
30	Coping on top of one brick wall	m	11			
31	Coping on top of 345mm solid brick wall	m	23			
	WATERPROOFING			e.		
	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.		9			
32	Wrapped around river sand in trenches	m2	121			
	Waterproofing to bagged brick retaining walls to be one layer Derbigum CG4 waterproofing membrane, with 100mm side laps and 150mm end laps, sealed to primed surfaces by means of 'torch-fusion', to receive Delta MS8 dimpled drainage (e/m) and protection layer to receive compacted fill (to engineers specification) on top of geo drainage pipe system (elsewhere specified). Waterproofing to be installed by an Approved Derbigum Contractor under a 10-year guarantee.	5				
33	On retaining walls surfaces	m2	57	-		
	"Delta MS8" dimpled water proofing					
34	On retaining walls surfaces	m2	57	e.		
	Non-woven geotextile fabric U14 or similar approved					
35	On retaining walls surfaces	m2	57			
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	Section No. 4 SITE WORKS (PROVISIONAL) Bill No. 3				9	
	RETAINING WALLS				7	

	SUBSOIL DRAINAGE					
	SUB-SOIL DRAINAGE					
	Stone filling of 19mm broken stone					
36	300 x 300mm Box filled with 19mm loose concrete wrapped with Geomesh BSP all in accordance to the Engineer's instructions behind retaining walls	m	34			
	uPVC slotted drain pipes, etc.					
37	110mm Drain pipes laid in stone encasing (stone encasing e/m)	m	34			
	Sand/cement fillet, groves, etc					3
38	100 x 100mm Smooth corner fillet against brick walls	m	34			
	STORMWATER CHANNELS, ETC.		24			
	<u>EARTHWORKS</u>			5 477	.2	
	Excavation in earth not exceeding 2m deep	s :-				
39	Shallow excavation to form V-drain	m3	2			
40	Cutting and shaping to form V-drain	m2	27			
	SOIL POISONING			ŧ		
	Soil insecticide to be executed with SABS compliance by a firm of specialists under a 5 year guarantee					
41	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	27			
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	Section No. 4 SITE WORKS (PROVISIONAL) Bill No. 3 RETAINING WALLS					

42	Weedkiller mixed in accordance to supplier's specifications Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES	m2	27				
	25MPa/20mm concrete						
43	Stormwater channels cast in panels	m3	2				
	Grooves, channels, mortices, sinkings, etc. in concrete						
44	Segmental channel with 50mm depth on top of concrete	m	34				
45	Shaping side of 1200mm wide stormwater channel to form form V shape in the middle	m	34				
	Smooth formwork to sides			8			
46	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	34	•			
	REINFORCEMENT						
	Fabric reinforcement						
47	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 800mm wide	m	34				
	CONCRETE SUNDRIES						
	Finishing top surfaces of concrete smooth with a power float	-					
48	Surface beds, slabs, etc	m2	27				
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SITE WORKS (PROVISIONAL)			
Bill No. 3			
RETAINING WALLS			
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SITE WORKS (PROVISIONAL) BIII No. 3			
RETAINING WALLS			

Item No			Quantity	Rate	Amount
	SECTION NO. 4				
#X	BILL NO. 4				
	STORMWATER DRAINAGE				
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"		×		•
	PREAMBLES		z.		6
	STORMWATER DRAINAGE		7.		
	The following in trenches for pipes (pipes e/m)			5	
1	Excavation not exceeding 2m deep	m3	131		
2	Rip and scarify ground level to a depth of 150mm and consolidate to 90% mod. AASHTO density (minimum CBR 3)	m2	88		
3	Risk of collapse to sides of trench and hole excavations not exceeding 1,5m deep	m2	263		
4	Backfilling to trenches, holes, with selected materials obtained from excavations compacted in 150mm layers to 90% Mod AASHTO density to form fill blanket	m3	56	3	
5	Backfilling to trenches, holes, with selected materials supplied by the contractor compacted in 150mm layers to 90% Mod AASHTO density to form fill blanket				
	а	m3	26	5	
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	Section No. 4 SITE WORKS (PROVISIONAL) Bill No. 4 STORMWATER DRAINAGE			,	

6	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	35		
7	Extra over all excavations for carting away surplus material from excavations and/or stock piles on site to a dumping site n.e 1km from site	m3	75		
8	Keeping excavations free of water	,	Item	9	
	Class 100D concrete pipes				
9	200mm Half round channels in bottoms of inspection chambers	m	3		
10	450mm pipes laid in and including trenches not exceeding 1m deep (trenches e/m)	m	88	<i>e</i>	
	THE FOLLOWING IN CATCHPITS, JUNCTION BOXES AND INLET MANHOLES, ETC.				
	EXCAVATIONS				
	Excavation in earth not exceeding 2m deep			9 2 6	
11	Excavation in holes not exceeding 2m deep	m3	31		
12	Excavation in trenches not exceeding 2m deep (Ground beams)	m3	0.1		
13	Reduced levels under floors	m3	0.4		
	Extra over all excavations for carting away				
14	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	11		
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	Section No. 4 SITE WORKS (PROVISIONAL) Bill No. 4 STORMWATER DRAINAGE				

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	Risk of collapse of excavations					
15	Sides of trench and hole excavations not exceeding 1,5m deep	m2	46			
16	Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3m deep	m2	6			
	Keeping excavations free of water					
17	Keeping excavations free of water	2	Item			11
	FILLING ETC					
	Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density		2			
18	Backfilling to trenches, holes, etc	m3	20			
	Compaction of surfaces		=			
19	Compaction of ground surface under stormwater catchpits floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to	m2	18	» 		
	95% Mod AASHTO density	m2	10			
20	Compaction of ground surface under stormwater outlet floors including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m2	2			
	Prescribed density tests on filling	8				
21	"Modified AASHTO Density" test	No	12			
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				,	
	15MPa/19mm concrete				e	
22	Surface blinding under footings and bases	m3	0.32			
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	Bill No. 4 STORMWATER DRAINAGE					
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	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES					
	25MPa/19mm concrete					,
23	Ground beams	m3	0.1			
24	Bottoms of catchpits, etc.	m3	0.96			
25	Stormwater catchpit slabs, etc.	m3	0.87		4.1	
26	Benching tapering on sides from 170mm to 100mm in stormwater channels 1000mm wide with smooth finishing on top, etc.			-		
		m2	3			
27	Stormwater outlet slab, etc.	m3	0.4			
	TEST CUBES					
28	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	12			=
	SMOOTH FORMWORK (DEGREE OF ACCURACY II)					
	Smooth formwork to sides		78			
29	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	24			
	Permanent formwork to soffits					
30	Slab over stormwater catchpits, etc.	m2	6			
	Smooth formwork to form					
31	Opening for stormwater catchpit size 450 x 450mm through 150mm slab	No	3	ē.		
	REINFORCEMENT					
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	SITE WORKS (PROVISIONAL) Bill No. 4 STORMWATER DRAINAGE					

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	Fabric reinforcement							
32	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, in sheets 2,4 x 6m long (top slab of catchpit)	m2	13					
33	Steeledale Mesh standard square fabric mesh, nominal mass 1,93 kg/m² with nominal 5,6mm thick wires and 200×200 mm pitch (code 193), complying with SANS $1024/2006$ requirements, in sheets 2,4 x 6m long (bottom of catchpit slab).	m2	13	,				
	CONCRETE SUNDRIES				22			
	Finishing top surfaces of concrete smooth with a wood float/steel trowel							
34	Bottom of stormwater catchpits, etc.	m2	6			142		
35	Surfaces of storm water catchpits, etc.	m2	6					
36	Surfaces of stormwater outlets, etc.	m2	2					
	MASONRY	_						
	Brickwork of NFP bricks in class II mortar					4	9	
37	One brick walls (stormwater catchpit)	m2	22					
38	One brick walls (stormwater outlet)	m2	2		0			
	BRICKWORK SUNDRIES							
	Brickwork reinforcement				20,			
39	150mm Wide reinforcement built in horizontally	m	304		,		135	
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	Section No. 4 SITE WORKS (PROVISIONAL) Bill No. 4 STORMWATER DRAINAGE							

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	<u>Holes</u>			A:		
40	Leave or form opening through one brickwall for pipe exceeding 400mm and n.e 500mm diameter	No	7			
	EXTERNAL PLASTER	2.		70		
	Cement plaster on brickwork					
41	On walls	m2	20			
42	On narrow widths	m2	0.3			
43	On raking narrow widths	m2	1			
	COVERS, ETC.					98
	Gratings, covers, etc			2"		
44	450 x 450mm Stormwater catchpit grating with frame formed of 50 x 50 x 6mm angle iron, fixed to wall with fixing lugs welded to angle iron and fixed to walls (PC Amount R1 500-00 Vat each supplied)	No	3			
	WATER DISSAPATION BLOCKS, ETC			120		
	Kerbs, etc				el .	
45	Precast concrete figure 7 kerb (SABS 927) cut in 300mm long block and fixed in concrete slabs as water dissipation blocks	No	11			-
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	SITE WORKS (PROVISIONAL) BIII No. 4 STORMWATER DRAINAGE		229			
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Section No. 4		
SITE WORKS (PROVISIONAL)		
Bill No. 4		
STORMWATER DRAINAGE		
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SITE WORKS (PROVISIONAL) BIII No. 4		
STORMWATER DRAINAGE		

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		SITE WORKS (PROVISIONAL)			
Bill No		SECTION SUMMARY - SITE WORKS (PROVISIONAL)	Page No	9	Amount
	1	BULK EARTHWORKS	124		
	2	APRONS AND STORMWATER CHANNELS	128		
	3	RETAINING WALLS	137		
	4	STORMWATER DRAINAGE	144		
		Carried to Final Summary Section No. 4 SITE WORKS (PROVISIONAL)		R	

SECTION 5: PROVISIONAL SUMS

	Quantity	Rate	Amount	
SECTION NO. 5				
BILL NO. 1				
PROVISIONAL AMOUNTS ETC				
PROVISIONAL SUMS FOR SELECTED SUB- CONTRACT WORKS	-			
SUPPLEMENTARY PREAMBLES				
<u>General</u>		8		
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			-	
Profit				
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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Section No. 5 PROVISIONAL SUMS Bill No. 1 PROVISIONAL SUMS				
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Item No

	<u>Preliminaries</u>			
	The contractor is referred to the Preliminaries for further amplification of "Prime Cost Amounts and Provisional Amounts"			
	Air conditioning, etc.			
1	Provide the sum of R200 000-00 (two hundred thousand rand) for the supply and installation of Air conditioning by Specialists (First Fix)	Item		200,000.00
2	Allow for giving every facility to Specialists as described			
		Item		· ·
3	Allow for profit on above if required	Item		
	Electrical Installation			
4	Provide the sum of R600 000-00 (Six hundred thousand rand) for Electrical Installation by Specialists	Item		600,000.00
5	Allow for giving every facility to Specialists as described			
		Item		
6	Allow for profit on above if required	Item		
	Fire Detection			
7	Provide the sum of R110 000-00 (one hundred and ten thousand rand) for Fire detection installation by			
	Specialists	Item		110,000.00
8	Allow for giving every facility to Specialists as described			
		Item		
9	Allow for profit on above if required	Item		
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		Joinery Fittings Installation			
1	0	Provide the sum of R50 000,00 (fifty thousand rand) for the supply and installation of Joinery fittings by Specialists	Item		50,000.00
1	1	Allow for giving every facility to Specialists as described			70
			Item		
	12	Allow for profit on above if required	Item		
		Window Blinds, etc.			
	13	Provide the sum of R100 000,00 (one hundred thousand rand) for the supply and installation of Window blinds by Specialists	Item	-	100,000.00
	14	Allow for giving every facility to Specialists as described			
			Item		
	15	Allow for profit on above if required	Item		
		Timber Roof Construction			
	16	Provide sum of R275 000.00 (two hundred and seventy five thousand rand) for the supply and installation of Timber Roof by Specialists	Item		275,000.00
	17	Allow for profit on above if required (Excluded from CPAP)	Item		
	18	Allow for giving every facility to specialist as described	Item		
		Ablutions vanity slabs, etc.			
	19	Provide the sum of R75 000,00 (Seventy five thousand rand) for the supply and installation of change rooms vanity slabs and cabinets by Specialists	Item		75,000.00
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20	Allow for profit on above if required (Excluded from CPAP)	Item			
21	Allow for giving every facility to Specialist as described	Item			
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Item No			Quantity	Rate	Amount	
	SECTION NO 5					
	BILL NO 2					
	PROVISIONAL AMOUNTS ETC					
8	PROVISIONAL SUMS FOR SELECTED SUB- CONTRACT WORKS					
## T	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	2	:		
4	Sleeve exceeding 250mm and not exceeding 500mm long	No	2	2		
	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		6		
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	PROVISIONAL SUMS Bill No. 2					
	BUILDER'S WORK					

	Section No. 5	,			
	PROVISIONAL SUMS				
Bill No	SECTION SUMMARY - PROVISIONAL SUMS	Page No		Amount	
1	PROVISIONAL SUMS	150			-
2	BUILDER'S WORK	151			-
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FINAL SUMMARY

	FINAL SUMMARY	Page		Amount
Section No		Page No		Amount
1	PRELIMINARIES AND GENERAL	30		
2	BUILDINGS (PROVISONAL)	96		
3	PLUMBING & DRAINAGE (PROVISIONAL)	119		
4	SITE WORKS (PROVISIONAL)	145		
5	PROVISIONAL SUMS	152		
,	Sub Total - 1	d	R	
	CONTINGENCY SUM			
	Allow the amount of R200 000-00 (Two hundred thousand rand) for Contingencies for building work, to be used as directed by the Principal Agent and deducted in whole or in part if not required			
	10quii ou	Item		200,000.00
	SPECIAL CONDITIONS			
	Provide the sum of R200 000,00 (Two hundred thousand rand) for fluctuations in cost	Item		200,000.00
	Sub total - 2 (VAT excl)		R	
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	Sub Total (VAT INCL.) CARRIED TO TENDER FORM		R	
	Carried to Form of Tender		R	7

ARCHITECT'S DRAWINGS