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- vi) If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value and "T" denotes an amount in proportion to time

SECTION A: PRINCIPAL BUILDING AGREEMENT

Definitions (A1)

- 1 Definitions and interpretation (clause 1)

Fixed

Item

Value Related

Item

Time Related

Item

Objective (A2)

- 2 Offer, acceptance and performance (clause 2)

Fixed

Item

Value Related

Item

Time Related

Item

Preparation (A3-A14)

- 3 Documents (clause 3)

Clause 3.1 shall be deemed to be omitted and replaced with the following:

No payment guarantee will be provided by the employer

Fixed

Item

Value Related

Item

Carried to Collection

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Execution (A15-A23)

15 Preparation for and execution of the works (clause 15)

Fixed

Item

Value Related

Item

Time Related

Item

16 Site and Access (clause 16)

Fixed

Item

Value Related

Item

Time Related

Item

17 Contract instructions (clause 17)

Fixed

Item

Value Related

Item

Time Related

Item

18 Setting out of the works (clause 18)

The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments

The contractor shall perform tolerance control checks regularly throughout the contract period and report on this at regular interval to the Principal Agent in the approved format. Should the contractor fail to comply with this requirement to the satisfaction of the the Principal Agent, progressively as the structure is being constructed, the Employer will commission a Registered Land Surveyor to do so on the Contractor's behalf and at the Contractor's Expense.

Fixed

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22	Employer's direct contractors (clause 22)				
	<i>The Contractor shall allow the direct contractors and employers agents access to the work, allocate reasonable space in the building for storage of their materials, tools and equipment, all to the satisfaction of the Principal Agent. The contractor shall also allow the direct contractors, etc. free of charge, use of their ablution facilities and water and power supply to the and shall in no way hinder or prevent the execution of their works. Attendance may be priced against the relevant specified items in the bills of quantities.</i>				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
23	Contractor's domestic sub-contractors (Clause 23)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
	<u>Completion (A24-A30)</u>				
24	Practical completion (clause 24)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
25	Works completion (clause 25)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
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26	Final completion (clause 26)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
27	Latent defects liability period (clause 27)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
28	Sectional completion (clause 28)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
29	Revision of date of practical completion (clause 29)				
	Clause 29.1.1 shall be deemed to be omitted and replaced by the following:				
	<i>Inclement weather shall be defined as weather in excess of the average rainfall (volume and period) for each calendar month over the past ten (10) years as recorded by the nearest commonly recognised weather bureau in the region of the project</i>				
	<i>It shall be deemed that the contractor has adequately allowed in his programme and tendered rates for expenses which might result from delays due to average or below rainfall as described above</i>				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
	Carried to Collection			R	
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30	Penalty for non-completion (clause 30)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
	<u>Payment (A31 - A35)</u>				
31	Interim payment to the contractor (clause 31)				
	<i>Notwithstanding this or any other clause, materials and goods stored off site shall not to be included in the amount authorized for payment</i>				
	<i>Clause 31.6.5 shall be deemed to be deleted</i>				
	<i>Clause 31.9:</i>				
	<i>The wording "seven (7)" be replaced with "thirty (30)"</i>				
	<i>Cause 31.11.1:</i>				
	<i>The wording "one hundred and sixty per cent (160%)" be replaced with "one hundred and ten per cent (110%)"</i>				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
32	Adjustment to the contract value (clause 32)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
33	Recovery of expense and loss (clause 33)				
	Fixed	Item			
	Carried to Collection		R		
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		Value Related	Item		
		Time Related	Item		
34	Final account and final payment (clause 34)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
35	Payment to other parties (clause 35)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
	<u>Termination (A36-A39)</u>				
36	Termination by employer - contractor's default (clause 36)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
37	Termination by employer - loss and damage (clause 37)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
38	Termination by contractor - employer's default (clause 38)				
		Fixed	Item		
		Value Related	Item		
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	Time Related	Item		
39	Termination - cessation of the works (clause 39)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>Dispute (A40)</u>			
40	Settlement of Disputes (clause 40)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>Contract Agreement (A41)</u>			
41	The schedule: Post-tender information (clause 41)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>42.1 CONTRACTING AND OTHER PARTIES</u>			
	<i>See "Notes to Tenderers" for all the relevant physical and postal addresses, telephone and facsimile numbers</i>			
	42.1.1 Employer:			
	INDEPENDENT DEVELOPMENT TRUST			
	42.1.2 Principal Agent:			
	PROCOST & ASSOCIATES			
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42.1.3 Agent (1):

Agents service: **Quantity Surveyors****Procost & Associates**

42.1.4 Agent (2):

Agents service: Architects

Rabana Architects Pty (Ltd)

42.1.5 Agent (3):

Agents service: Civil and Structural

EVN Africa Consulting Engineers Pty (Ltd)

42.1.6 Agent (4):

Agents service: Electrical and Mechanical

Mogalemole Consulting Enginners

42.1.7 Agent (5):

Agents service:

42.1.8 Agent (6):

Agent Service:

42.1.9 Agent (7):

Not Applicable

42.1.10 Agent (8):

Not applicable**Carried to Collection**

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42.2 CONTRACT DETAILS

42.2.1 Works Description:

The works shall be as described in the "Notes to Tenderers"

42.2.2 Site Description:

The site shall be as described in the "Notes to Tenderers"

42.2.3 Work or installations by direct contractors:

Refer to notes to tenders: Item 2 Scope of contract

42.2.4 Specific options that are applicable to a State organ only:

(1) Interest rate legislation:

N/A

the (2) Lateral support insurance to be effected by contractor:

N/A

goods: (3) Payment will be made for materials and

Yes

(4) Dispute resolution by litigation:

N/A

the (5) Extended defects liability period applicable to following elements:

N/A

42.2.5 Possession of the site is to be given on:

Date to be determined

42.2.6 Period for the commencement of the works after the contractor takes possession of the site:

Within ten (10) working days

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42.2.7 The date for practical completion and the penalty per calendar day for the works as a whole:

05 months after contractual commencement date

Refer to notes to tenderers 15.3.1 and 15.3.2

Penalty:

0,05 cents per R100.00 of the tendered amount or of each phase inclusive of value added tax

42.2.8 The date for practical completion and the penalty per calendar day for the works in sections:

Refer to notes to tenderers 15.3.1 and 15.3.2

Section 1: Date: N/A Penalty: R

..... Section 2: Date: N/A

Penalty: R Section 3: Date:

N/A Penalty: R Section 4: Date:

N/A Penalty: R Section 5: Date:

N/A Penalty: R Section 6: Date:

N/A Penalty: R

42.2.9 The law applicable to this agreement shall be that of:

Republic of south Africa

42.3 INSURANCES

42.3.1 Contract works insurance:

To be effected by: **Contractor**

For the sum of: **Contract Sum plus**

20%

With a deductible of: **to be determined by**

the

contractor

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42.3.2 Supplementary insurance is required:

No

42.3.3 Public liability insurance:

Yes

To be effected by: **Contractor**
For the sum of: **R 10 000 000-00**
With a deductible of: **to be determined by**

the

contractor

42.3.4 Support insurance to be effected by the employer:

No

42.4 DOCUMENTS

42.4.1 Waivers of contractor's lien or right of continuing possession is required:

Yes

42.4.2 Construction document copies to be supplied to the contractor free of charge:

Three (3) copies of each

42.4.3 Bills of quantities drawn up in accordance with:

Standard System of Measuring Building Work

42.4.4 On acceptance of the tender the bills of quantities is to be submitted:

Within seven (7) working days

42.4.5 JBCC Engineering General Conditions are to be included in the documents:

No

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42.4.6 The contract value is to be adjusted using CPAP:

Yes

Base month of indexes: **Month of Tender Closure**

42.4.7 Details of changes made to the provision of JBCC standard documentation:

42.5 CONTRACT DETAILS

All post-tender information for this section will be determined once tender is awarded

42.6 DOCUMENTS

All post-tender information for this section will be determined once tender is awarded

42.7 DISPUTE RESOLUTION

All post-tender information for this section will be determined once tender is awarded

42.8 SIGNATURES OF THE CONTRACTING PARTIES

All post-tender information for this section will be determined once tender is awarded

SECTION B: PRELIMINARIES

Definition and interpretation (B1)

42 Definition and interpretation (B1.1 - B1.6.5)

Fixed

Item

Value Related

Item

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	Time Related	Item		
	<u>Documents (B2)</u>			
43	Checking of documents (B2.1)			
	<i>These bills of quantities:</i>			
	<i>(1) contain pages and annexes as indexed, and;</i>			
	<i>(2) are in multiple procurement format, i.e. all trades are fully measured with minor budgetary allowances</i>			
	<i>Items in these bills of quantities are to be read and priced in conjunction with and the descriptions regarded as amplified by the Model Preambles for Trades, 2008 edition, as recommended and published by the Association of South African Quantity Surveyors and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained</i>			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
44	Provisional bills of quantities (B2.2)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
45	Availability of construction documentation (B2.3)			
	<i>The minor budgetary allowances included in this document will be separately procured, based on multiple procurement of selected sub-contractors during the construction period</i>			
	Fixed	Item		
	Carried to Collection		R	
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	Value Related	Item		
	Time Related	Item		
61	Programming for the works (B4.2) Clause B4.2 is hereby amended by the addition of the following: Programme: The contractor and the principal agent shall agree to a Contract Programme for the control of the Works. The contractor shall submit a draft of the Contract Programme and method statement to the principal agent for approval together with the tender. The contractor shall ensure that the contract programme: 1. Shall be prepared and drawn up to comply in all respects with the requirements of this Agreement. 2. shall be drawn up using logic developed during the tender period and complies with the planning requirements of the Client. 3. shall be in accordance with the dates given herein for possession and practical completion; and 4. shall be in sufficient and approved detail to ensure effective control of the work, including all items necessary to enable calculations to be made for the distribution of finance during the cashflow analysis. 5. shall be accompanied by a full written method statement The principal agent shall examine and comment on the contract programme and method statement within two weeks of its submission. Following on these comments the contractor shall amend the contract programme and method statement as may be necessary and submit the final contract programme and method statement to the principal agent for approval within a further two weeks thereafter.			
	Carried to Collection		R	
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The contract programme shall be processed by computer and be presented to the principal agent in the form of logic charts and bar charts in such a way as to determine the critical path and the float on non-critical activities. All supporting printouts must be available to the principal agent on demand.

The acceptance by the principal agent of the contract programme, or any revision thereof, does not necessarily sanction the accuracy of validity of the network logic, the correctness of individual activities in terms of description or duration, the comprehensiveness of networks or the discrepancies between drawings and any other documents presented by the contractor, and in no way relieves the responsibility of the contractor to comply with the requirements of the Agreement.

No policy decisions other than the planning requirements, procedures and policies provided, will be enforced on the contractor regarding construction of the project and the contractor shall be responsible at all times for ensuring the accuracy, validity and reasonableness of programming information.

Documentation will not be available in complete detail at the date of award of the contract. Non-availability of information will not be deemed an excuse for non-presentation of programmes. In the event of inadequate information, the contractor shall estimate the predicted time applications on available information and quality the submission accordingly.

Development of the contract programme and method statement

Within two weeks of award of the contract, the contractor shall submit an updated contract programme and written method statement which shall include the latest information in sufficient detail to permit comprehensive monitoring.

Progress of the works will be monitored by the principal agent. The contractor shall liaise with the principal agent in order to provide whatever information is required to facilitate such monitoring.

Revisions to the contract programme

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Revisions to the contract programme may be introduced periodically by the contractor subject to compliance with the contract completion and handover dates.

Providing the required consultation between the relevant parties has highlighted the implications of the required changes, the programming strategy on the project may be changed and the changes noted and specified on logic charts delivered to the principal agent. The changes to the programme will be recorded as firm and binding once the principal agent has sanctioned the said changes.

A revision to the programme will not invalidate the contractual completion dates and applications for extensions of time will be processed by the principal agent in accordance with the conditions of contract.

Should the contractor fail to submit a request for revision to the construction programme, progress monitoring shall be based on the latest revised programme sanctioned by the principal agent.

The contractor shall make all his necessary revisions on the approved network sheets clearly marking, inter-alia, the logic changes and duration changes. These will then be processed by the necessary parties and then approved in the normal manner.

Progress Monitoring

The contractor shall provide regular progress reports showing actual and expected progress against the latest contract programme. Progress reports shall be submitted at each site progress meeting and shall outline the progress against key target dates and deviation which has occurred against the most recently updated control programme due to the progress reflected in the as-built construction programme.

The status of each activity must also be reported as follows:

Target - If the activity is not complete, the latest predicted completion date shall be supplied.

Start - If the activity has commenced, the actual date shall be supplied.

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Finish - If the activity is complete, the actual completion date shall be supplied.

Problems which may occur during execution of the contract must be specifically identified in progress reports under a separate section of the contractor's report.

Should problems occur during the execution of the contract or the scope of work be increased or decreased, the contractor may be requested to increase the extent or the detail of the programme.

The principal agent may recommend action to be taken by the contractor, including the revision of resource levels, but this information will not be binding on the contractor unless the recommendations are enforced in terms of the conditions of contract by the principal agent and will in no way relieve the contractor's responsibility to comply with the requirements of the Agreement.

Extension of time

Any extension of time which is granted by the principal agent will be annotated to affect selected activities in the programme and the associated activities will be incorporated by revisions to the programme by the contractor. Should the additional activities or the extension of time on existing activities fall on a non-critical area of the programme, extension will be limited to the activities affected by the said additional activities or extensions and the contract dates shall not be affected. If, however, the additional activities fall on the critical path, the principal agent shall take this into account when granting any extension of time in terms of the conditions of contract.

The contractor agrees that the contract completion date (i.e. the date for practical completion) has been stipulated in the contract for the benefit of the employer, so that, without derogating from the generality of the foregoing principle it is provide that:

1. The contractor shall not be entitled to deliver the site and the works to the employer prior to the contract completion date and
2. Should there for any reason be any float period

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indicated in the contract programme prior to the contractual completion date then this float period shall be utilized to absorb any delays or extensions of time without affecting the contract completion date.

3. The contractor shall, at all times, ensure that, notwithstanding the approval or sanctioning, reviewing or inspection of a programme or any revision of a programme by the principal agent in the foregoing terms, practical completion and completion of the works shall take place strictly in accordance with this Agreement.

A defective or faulty programme, even if so sanctioned, approved, reviewed or inspected by the principal agent, shall therefore not constitute a cause for granting an extension of time for completion of the works or for entitling the contractor to the payment by the employer in terms of the contract of any loss, compensation or damage whatsoever.

The contractor acknowledges that the principal agent's foregoing participation in the approval of development of, revisions to and updating of the Contract Programme shall take place in consultation with the principal agent. The contractor shall therefore provide the principal agent with such co-operation and/or information and/or access as they may reasonably require for such purposes.

Fixed

Item

Value Related

Item

Time Related

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		Value Related	Item		
		Time Related	Item		
	<u>Financial aspects (B10)</u>				
84	Statutory taxes, duties and levies (B10.1)				
	<i>Provision is made in the summary of these bills of quantities for the inclusion of Value Added Tax (VAT)</i>				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
85	Payment of preliminaries (B10.2)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
86	Adjustment of preliminaries (B10.3)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
87	Payment certificate cash flow (B10.4)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
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12.1.5 Geotechnical investigation (B12.1.5)

Available on request

12.1.6 Existing premises occupied (B12.1.6)

Yes

12.1.7 Previous work - Dimensional accuracy (B12.1.7)

No

12.1.8 Previous work - Defects (B12.1.8)

No

12.1.9 Services - known (B12.1.9)

***Existing services and points of connection
are shown on the site plan and/or will be
pointed out on site by the principal agent***

12.1.10 Protection of trees (B12.1.10)

N/A12.1.11 Inspection of adjoining properties
(B12.1.11)**Yes**12.1.12 Enclosure of the works (B12.1.12) (See
notes to tenders)

12.1.13 Offices (B12.1.13)

***The contractor shall provide, maintain and
remove on completion of the works an office
for the exclusive use for meetings to be held
on site. The Specifications and sizes are as
detailed in the Tender Notes. The office shall
be kept clean and fit for use at all times*****Carried to Collection****R**

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12.1.14 Main notice board (B12.1.14)

The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m high. The exact extent of the details, colour scheme and wording will be provided by the principal agent on the day of the site handover. The board shall be securely fixed to and including a suitable supporting structure of timber or tubular posts and braces

12.1.15 Sub-contractors notice board (B12.1.15)

A notice board is required:

No

12.1.16 Water (B12.1.16)

Alternative selected: **A**

12.1.17 Electricity (B12.1.17)

Alternative selected: **A**

12.1.18 Telecommunications (B12.1.18)

Alternative selected: **A**

12.1.19 Ablution facilities (B12.1.19)

Alternative selected: **A**

12.1.20 Protection of existing/sectionally occupied works (B12.1.20)

No

12.1.21 Special attendance (B12.1.21)

No

12.1.22 Protection of the works (B12.1.22)

No

12.1.23 Disturbance (B12.1.23)

Yes

12.1.24 Environmental disturbance (B12.1.24)

No**Carried to Collection****R**

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101	Post-tender information (B12.2)				
	<i>All post-tender information for this section will be determined once tender is awarded</i>				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			

	<u>SECTION C: SPECIFIC PRELIMINARIES</u>				
102	Clause C1 - Proprietary branded products				
	The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorized representative				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
103	Clause C2 - Overtime				
	Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorized and indicated in writing, prior to the execution thereof, that costs for such overtime will to be borne by the employer				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
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104	Clause C3 - As-built drawings The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records Fixed Value Related Time Related	Item			
105	Clause C4 - Site instructions All site instructions issued on site shall be recorded in writing within seven (7) calendar days in site instruction book (A4 size and triplicate carbon format), which is to be provided and maintained by the contractor. The said site instruction book shall be kept on site at all times for the exclusive use of recording site instructions only Site instructions may be issued by the architect or any of the consultants only. Copies of the site instructions are to be submitted to the architect and quantity surveyor within seven (7) calendar days of such recording in the site instruction book Fixed Value Related Time Related	Item			
106	Clause C5 - Labour record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day Fixed Value Related	Item			
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	Time Related	Item		
107	Clause C6 - Plant record			
	At the end of each calendar week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
108	Clause C7 - Non-cession of monies			
	The contractor shall not cede nor assign his rights or claims to any monies due or to become due to him under this contract			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
109	Clause C8 - Occupational Health and Safety Act			
	In terms of the Occupational Health and Safety Regulations promulgated on 18 July 2003 and any latest editions/ammendments, it will be expected from the contractor to comply fully with and adhere to all such regulations pertaining to this project as no claims in this regard will be entertained			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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110	Clause C9 - Viewing of the school areas The site is situated in a school area and the tenderer must arrange with the Principal or other responsible school staff to obtain permission to enter the site for tendering purposes Fixed Value Related Time Related	Item			
111	Clause C10 - Commencement of Works in School Areas As the works falls within a school area the contractor must give the Principal or other responsible staff member notice before commencement of the works. Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account Fixed Value Related Time Related	Item			
112	Clause C11 - Entrance Permits to School Areas As the works falls within a school area the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Principal, or chief security officer Fixed Value Related Time Related	Item			
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	Value Related	Item		
	Time Related	Item		
115	Clause C13.1 - Awareness Champion			
	Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
116	Clause C13.2 - Awareness Workshop			
	Selection and appointment of a competent Service Provider approved by the principal agent , provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
117	Clause C13.3 - Posters, booklets, videos, etc.			
	Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period , all in accordance with the HIV/AIDS Specification			
	Fixed	Item		
	Value Related	Item		
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	Time Related	Item		
118	Clause C13.4 - Access to Condoms			
	Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period , all in accordance with the HIV/AIDS Specification			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
119	Clause C13.5- Monitoring			
	Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
120	Clause C13.6- COVID-19 Monitoring			
	Prepare site for COVID-19 social distancing Monitoring COVID-19 awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, screening of employees with COVID-19 symptoms, COVID-19 testing of employees with possible infection for the duration of the construction period and close out, all in accordance with the COVID-19 Specification			
	Fixed	Item		
	Value Related	Item		
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	Time Related	Item		
121	Clause C13.7- Emergency preparedness			
	Prepare Isolation area for person presenting with symptoms of COVID-19 infection for the duration of the construction period and close out, all in accordance with the COVID-19 Specification			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
122	Clause C13.8- Provide, supply and maintenance for all workers the following SANS approved personal protective equipment and clothing			
	1. Face masks for COVID-19			
	2. Safety shields for COVID-19			
	3. Surgical gloves for COVID-19			
	3. Non contact thermometers			
	4. Spill kits			
	5. Hand sanitizers			
	6. Cleaning and detergents for disinfection/sanitizing everyday			
	7. BIO Hazard bin for waste disposal			
	for the duration of the construction period and close out, all in accordance with the COVID-19 Specification			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
123	Clause C13.9- Safety Signage			
	COVID-19 Signage and Posters			
	for the duration of the construction period and close out, all in accordance with the COVID-19 Specification			
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	<u>For preambles see "Specifications of materials and methods to be used - PW371-A"</u>			
	<u>EARTHWORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Nature of ground</u>			
	The nature of the ground is assumed to be sandy weathered granite, therefore "earth", but possibly interspersed with "hard rock"			
	<u>Excavation for working space in rock</u>			
	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			
	<u>Carting away of excavated material</u>			
	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			
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	Section No. 2 BUILDING Bill No. 1 FOUNDATIONS (PROVISIONAL) Procost & Associates (PTY) Ltd			

Filling

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

Soil poisoning

Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said certificate to the Principal Agent

SITE CLEARANCE ETCSite clearance

- | | | | |
|---|--|----|-----------|
| 1 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc | m2 | Rate Only |
|---|--|----|-----------|

EXCAVATION, FILLING, ETCExcavation in earth not exceeding 2m deep

- | | | | |
|---|----------|----|-----------|
| 2 | Trenches | m3 | Rate Only |
|---|----------|----|-----------|

Extra over trench and hole excavations in earth for excavation in

- | | | | |
|---|-----------|----|-----------|
| 3 | Soft rock | m3 | Rate Only |
|---|-----------|----|-----------|

- | | | | |
|---|-----------|----|-----------|
| 4 | Hard rock | m3 | Rate Only |
|---|-----------|----|-----------|

Extra over all excavations for carting away

- | | | | |
|---|---|----|-----------|
| 5 | Surplus material from excavations on site to a dumping site to be located by the contractor | m3 | Rate Only |
|---|---|----|-----------|

Risk of collapse of excavations

- | | | | |
|---|--|----|-----------|
| 6 | Sides of trench and hole excavations not exceeding 1,5m deep | m2 | Rate Only |
|---|--|----|-----------|

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	<u>Keeping excavations free of water</u>			
7	Keeping excavations free of all water other than subterranean water		Item	Rate Only
	<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>			
8	Under floors, steps, paving, etc	m3		Rate Only
9	Backfilling to trenches, holes, etc	m3		Rate Only
	<u>Earth filling supplied by the contractor compacted to 93% Mod AASHTO density</u>			
10	Under floors, steps, paving etc.	m3		Rate Only
	<u>Compaction of surfaces</u>			
11	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		Rate Only
	<u>Prescribed density tests on filling</u>			
12	"Modified AASHTO Density" test	No		Rate Only
	<u>SOIL POISONING</u>			
	<u>Weedkiller mixed in accordance to supplier's specifications</u>			
13	Under paving etc	m2		Rate Only
14	To bottoms and sides of trenches, etc.	m2		Rate Only
	<u>Soil insecticide</u>			
15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2		Rate Only
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16	To bottoms and sides of trenches etc	m2			Rate Only
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>					
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
<u>25MPa/19mm concrete</u>					
17	Strip footings	m3			Rate Only
<u>TEST CUBES</u>					
18	Allow for preparing a set of three 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.	Sets			Rate Only
<u>BRICKWORK</u>					
<u>Brickwork of NFP bricks in class II mortar</u>					
19	One brick walls	m2			Rate Only
<u>BRICKWORK SUNDRIES</u>					
<u>Joint forming material in movement joints:</u>					
20	12mm Fibre board built in vertically between brick skins.	m2			Rate Only
<u>Brickwork reinforcement</u>					
21	150mm Wide reinforcement built in horizontally	m			Rate Only
<u>FACE BRICKWORK</u>					
<u>Face bricks (Purchase price of R 3000,00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints</u>					
22	Extra over brickwork for face brickwork	m2			Rate Only
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23	<u>Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R3000,00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces</u> Coping on top of one brick wall	m			Rate Only
	<u>WATERPROOFING</u> <u>JOINT SEALANTS ETC</u>				
24	<u>Silicone sealing compound including backing cord, bond breaker, primer, etc:</u> 12 x 20mm In vertical expansion joints including raking out expansion joint filler as necessary	m			Rate Only
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<u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Specifications of materials and methods to be used - PW371-A"</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Cost of tests</u>			
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 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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Formwork

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

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

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

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

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

UNREINFORCED CONCRETE20MPa/19mm concrete

1	Surface beds	m3	5
2	Surface beds cast in panels on waterproofing.	m3	13
3	Ramps	m3	2

REINFORCED CONCRETE

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CONCRETE SUNDRIESFinishing top surfaces of concrete smooth with a steel trowel

4	Surface beds, slabs, etc	m2	100
5	Ramp to falls	m2	10

MOVEMENT JOINTS ETCExpansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces

6	15mm Joints exceeding 300mm high (Provisional)	m	146
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Saw cut joints

7	Saw cut joints in top of concrete (Provisional)	m	40
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Horizontal joggle construction joints through concrete including thick cement slurry to one face

8	Slabs not exceeding 300mm thick (Provisional)	m	40
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TEST CUBES

9	Allow for preparing a set of three 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. (Provisional)	Sets	3.0
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DIVIDING STRIPS, ETC.

10	6 x 38mm Angle iron step guard cast into concrete with 3 x 6mm anchors	m	4
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SMOOTH FORMWORK (DEGREE OF ACCURACY I)**Carried to Collection****R**

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Face bricks

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

Pointing

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

SUPERSTRUCTUREBrickwork of NFP bricks in class II mortar

1	Half brick walls in beamfilling.	m2	9
2	One brick walls to existing	m2	390

BRICKWORK SUNDRIESJoint forming material in movement joints:

3	12mm Bitumen impregnated fibre board built in vertically between brick skins not exceeding 300mm wide to existing	m2	23
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Brickwork reinforcement

4	75mm Wide reinforcement built in horizontally	m	51
5	150mm Wide reinforcement built in horizontally	m	886

Galvanised hoop iron cramps, ties, etc

6	30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end built into brickwork	No	28
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Turning pieces

7	110mm Wide turning piece to lintels etc	m	102
8	230mm Wide turning pieces to lintels etc	m	53

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MASONRY (PROVISIONAL)

Procost & Associates (PTY) Ltd

FACE BRICKWORK

Face bricks (Purchase price of R 3000,00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints

9	Extra over brickwork for face brickwork to existing	m2	368		
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Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R3000,00 / 1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces

10	Extra over brickwork for brick-on-edge header course lintel	m	36		
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11	Coping on top of one brick wall	m	15		
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Brick-on-edge header course copings, sills, etc of face bricks(Purchase price of R 3000,00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces

12	220mm Wide sill set sloping and slightly protecting outside	m	32		
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NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS

Nutec window internal sill, size 150mm x 15mm thick, manufactured in accordance with SANS 803:2005 and installed below window with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in Class II mortar with plastic slip joints at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations.

13	15mm x 150mm Wide sills set flat and slightly projecting	m	32		
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3	<u>Silicone sealing compound including backing cord, bond breaker, primer, etc</u> 6 x 10mm In expansion joints including raking out of expansion joint filler as necessary (Provisional)	m	113		
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WATERPROOFING (PROVISIONAL)

Procost & Associates (PTY) Ltd

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<u>ROOF COVERINGS ETC (PROVISIONAL)</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Specifications of materials and methods to be used - PW371-A"</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>General</u>			
All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched			
Where described as with "Chromadek" finish, all sheets, flashings, etc., shall be with "Chromadek" silicone polyester paint for exterior use			
<u>Sizes</u>			
All items are measured net unless otherwise described			
<u>Flashings, trimming plates, etc.</u>			
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			
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ROOF COVERINGS, ETC (PROVISIONAL)			
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Traffic Green color to be as follows:

Colour: Traffic Green

Gloss: 30+/-Gardner 60

Film Thickness: 17 - 22 Microns

Primer: Global Prime 204

Pencil Hardness: H

Flexibility: >8mm

Impact Resistance: >30 INLB on HDG

Bending: 2 Ton HDG

Solvent Resistance: > 100 Double Rubs with MEK

Salt Spray Test: 500 Hours ECCA T8. Corrosion, Blisters, Loss of Adhesion less than 3mm from the scribe

Weather-0-meter: 2000 Hours ECCA T10, loss of gloss less than 50% average colour change not greater than 5 units (CEILAB)

Florida Exposure Test: After two (2) years loss of gloss less than 75%, average colour change not greater than three (3) units (CEILAB)

PROFILED METAL SHEETING AND ACCESSORIES

0,5mm "Brownbuilt Klip-Lok Light Industrial" galvanised troughed sheeting steel with "Chromadek - Traffic Green" finish on one side, in single lengths fixed to steel purlins or rails and 0,6mm galvanised steel accessories with "Chromadek" finish on one side, fixed to roof members by a firm of Specialists who will give a five (5) year guarantee, all in accordance with the manufacturer's instructions

1	Roof covering with pitch not exceeding 50 degrees	m2	428
2	Ridge capping (Code FK3) to be Brownbuilt Klip-Lok 406 550mm girth, three times bent along girth and notched on site to suit roof profile.	m	32
3	Hip capping to be Brownbuilt Klip-Lok 406 550mm girth, three times bent along girth and notched on site to suit roof profile.	m	20

STEEL LOUVRES

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ROOF COVERINGS, ETC (PROVISIONAL)

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4	<u>"NTY Steelworks" or similar approved</u> Triangular steel louvre size 3000 x 500mm high fixed to timber purlins including watertight heading joints, necessary sealing strips, and necessary flashing, fixing accessories, etc	No	2		
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<u>BILL NO.6</u>			
<u>CARPENTRY AND JOINERY (PROVISIONAL)</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Specifications of materials and methods to be used - PW371-A"</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Particle board:</u>			
Particle board shall comply with the following specifications:			
a) SABS 1300 Particle board: exterior and flooring type			
b) SABS 1301 Particle board: interior type			
<u>Joinery:</u>			
Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc			
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
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Decorative laminate finish:

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

PRE-FABRICATED TIMBER ROOF TRUSSES**Pre-fabricated metal connected timber roof trusses**

All trusses shall be fabricated by an approved truss manufacturer who holds a current Certificate of Competence awarded by the Institute for Timber Construction

Timber

Timber for trusses to be South African softwood and shall be in accordance with the grades as defined in SABS Specification No 563 or as defined in SABS Specification No 1460

Bolts

Bolts shall be in accordance with BS 4190 or SABS 135

Shear plates, tooth connectors and split rings

Shear plates, tooth connectors and split rings shall be in accordance with BSS 1759 : 1960 and installed in accordance with the CSIR Publication HOUT 468, "The Design, Manufacturing and Erection of Timber Trusses"

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Washers

Square or round washers of the following dimensions shall be used with all bolts:

1. Bolts up to 8mm diameter:
Washers shall be minimum 25mm wide of minimum 2,50mm thickness
2. Bolts up to 12mm diameter:
Washers shall be minimum 36mm wide of minimum 4,00mm thickness
3. Bolts up to 20mm diameter:
Washers shall be minimum 60mm wide of minimum 5,00mm thickness

Metal connector plates

Metal connector plates shall be fabricated out of not less than 1mm thick drawn quality galvanised steel

The steel shall have a minimum yield strength of 228MPa and a minimum ultimate tensile strength of 330MPa. The corrosion resisting coating shall be not less than 275g/m² commercial class hot dipped galvanising as per SABS 934 before stamping

All connector plates shall have been tested by the CSIR and be of a size capable of transmitting the forces between members of a truss without exceeding the design values published in the CSIR report

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Truss construction

Trusses shall be constructed in jigs specially designed to ensure the correct profile, overhangs and cambers

Where metal connector plates are used all joints are to be close fitted butt joints made by precision pressing of the metal connector plates into each side of the joint

Truss design

All trusses shall be designed by a registered Professional Engineer in accordance with SABS 0163 ("Design of Timber Structures") and Code 0160 ("Loadings")

Truss spacing

The truss centres shall be less than or equal to that as described in this bill for each respective truss

Truss pitch

The truss pitch shall be as described in this bill for each respective truss type

Truss loading

Trusses shall be designed for a live load of 0,50kN/m² and dead load as specified under the sub-heading "Specific load specifications for roof trusses"

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Shop drawings, design and erection guarantee certificates

It will be expected from the Contractor to timeously prepare, submit and obtain the necessary approvals from the Representative/Agent in respect of the required shop drawings, design and erection guarantee certificates as specified

Dimensions

All dimensions given in the descriptions of the trusses are nominal and actual measurements are to be obtained by actual measurements taken on the site before design or fabrication commences

Erection

All trusses are to be hoisted and erected strictly in accordance with the procedures and recommendations of the manual "The Erection and Bracing of Timber roof Trusses" as published by the Institute for Timber Construction and the CSIR, or the SABS Code of Practice "The Design, Manufacture and Erection of Timber Roof Trusses", or as designed and detailed by the designer

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Design system

The design system as documented in this bill is based on the "MiTek" system and all references given in the descriptions are related to specific type of trusses based on this design system

However, Contractors are to note that any design system of similar quality may be used subject to the prior written approval of the Representative/Agent

Specific specifications for roof trusses

Unless otherwise described, the following specifications will apply:

1. All trusses to be with a 20° pitch
2. The dead load consists of 0,5mm "Klip-Lok Light Industrial"galvanised troughed sheet steel roof covering with "Chromadek" finish, purlins at approximately 1200mm centres, 6mm fibre-cement nailed-up ceilings and 50mm glass fibre insulation blanket laid on top of ceilings

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Rates

Tendered rates to include for the complete roof construction, including the design of the roof construction, all timber of required grade and type shown on the design, all cutting and waste, cutting to the exact lengths and end angles to manufacture the respective truss type, supply of all connector plates, fabrication of trusses, checking the completed truss for quality, loading up, transporting to the site of the works and off loading, storing under cover and protecting from the weather, hoisting up in position and erection of the roof truss structure, necessary supervision, submission of all shop drawings, design and erection guarantee certificates, etc. as specified

ROOFS ETC**Allow for the preparation and submission of the following documents in respect of all buildings:**

- 1 Detailed shop drawings indicating truss sizes, truss positions, bracings, details, etc. to be submitted for approval prior the commencement of any fabrication
- 2 Design certificate indicating the licensed programme used, SABS specifications adhered to, general procedures and loadings adopted, sizes and grading of timber components, details, etc.

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- 3 Erection guarantee certificate after the whole completed roof truss structure have been inspected, all defective work have been taken out and made good, etc. to the full satisfaction of the Representative/Agent

ROOFS TRUSSES

The following in prefabricated timber roof constructions should be of treated timber:

- 4 Complete Roof construction for Four Classroom Block complete with trusses, jack rafters, permanent bracing and 50 x 76mm purlins/battens etc 378m² on plan (measured flat)

No

1

ROOF TIMBERS SUNDRIES Sawn Softwood (Grade 5):

Sawn softwood

- 5 38 x 114mm Wall plates

m

60

- 6 76 x 50mm Beamfill close rail

m

60

Wrought softwood

- 7 50 x 220mm Laminated Beams bolted

m

Rate Only

- 8 50 x 228mm Laminated Beams bolted

m

45

Sundries

- 9 Two coats creosote on sawn timbers

m²

10

EAVES, VERGES, ETC

"Everite FC77" pressed fibre-cement

- 10 15 x 250mm Fascias and barge boards including galvanised steel H-profile jointing strips

m

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DOORS, ETC

Framed, ledged and braced wrought meranti batten door formed of 44 x 104mm tiles and top rail, 19 x 120mm middle rail and diagonal braces and 19 x 142mm bottom rail, filled in flush one side with 22 x 76mm tongued and grooved vertical battens, V-jointed one side with V-jointed continued along stiles and top rail, the other side covered with 6mm concealed hardboard panel let flush into and including rebate in framing and weather bar:

11 Door size 914 x 2032mm high including weatherboard

No

4

40mm Solid core flush panel doors with masonite veneer hung to steel frames

12 40mm Door 813 x 2032mm high

No

Rate Only

JOINERY FITTINGS ETC

13 Joinery fittings complete to nutrition centre (PC amount R45 000.00 vat excluded, supplied, delivered to site and installed by specialist)

Item

LOOSE FURNITURE, ETC.**Classrooms**

14 Teacher's chair

No

4

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15	Single Combination Desk for Secondary Schools - Saligna. 32mm round tubing x 1.6mm thickness. Notch in middle of bottom frame 10mm high. Saligna 21mm thick. M8 counter sunk flat square bolts 3x @ back & front panels and M8 Nylock TM nuts. Support stays 16mm tubing (below seat & vertical to horizontal front). Grey powder coated epoxy polyester. Wood finish: 2 x varnish coat - face sides, 1 x varnish coat - bottom sides. Polypropylene plugs on all open steel ends. Seat support horizontal (32mm x 1.6mm) to be notched prior to welding. Bend top frame to modesty panel (no welding!) bend to 86 degrees inside angle. 16mm x 3mm pencil groove on desktop. All wooden edges to be "rounded". Top 600mm x 400mm; back 600mm x 200mm; modesty panel 600mm x 250mm; seat 600mm x 225mm. Overall size Size: 600mm x 400 x 750mm high	No	160
16	Teacher's desk	No	4

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CEILINGS, ETC (PROVISIONAL)

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	<u>"Solid"</u>				
2	"Code 630" padlock	No	4		
3	"Code 460/313" Blesbok four lever lockset	No	4		
	<u>SUNDRIES</u>				
	<u>"Solid"</u>				
4	Dorma "Code 255" door stop plugged	No	4		
	<u>STEEL CUPBOARDS</u>				
	<u>Aproved steel lockers with standard baked enamel finish</u>				
5	G10 Double door steel cupboard 914 x 457 x 1828mm high with five shelves bolted to brickwork	No	4		
	<u>PINNING BOARDS</u>				
	<u>"Vitrex"</u>				
6	Pinning boards 2400 x 1500mm high fixed to brickwork	No	16		
	<u>WHITE WRITING BOARDS</u>				
7	White folding type writing board, with wall mounted centre board 2420 x 1220mm high, 2 x side panels 1220 x 1220mm high, 2 x swing leaf panels 1210 x 1220mm high with 4 x heavy duty hinges overall size 4860 x 1220mm high	No	4		
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IRONMONGERY (PROVISIONAL)

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IRONMONGERY (PROVISIONAL)

Procost & Associates (PTY) Ltd

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<u>BILL NO.9</u>			
<u>METALWORK (PROVISIONAL)</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Specifications of materials and methods to be used - PW371-A"</u>			
<u>Descriptions</u>			
Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
<u>Drawings</u>			
Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc			
<u>ALUMINIUM WINDOWS, DOORS, ETC</u>			
<u>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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Section No. 2 BUILDING Bill No. 9 METALWORK (PROVISIONAL) Procost & Associates (PTY) Ltd			

Finish

The windows, doors, etc shall be natural anodised to a thickness of 25 micron and shall comply with SABS 999 and 1407

Glass

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

Drawings

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

General

Workshop drawings to be approved by the architect before manufacture

SUNDRY METALWORKBolts

- 1 100mm Long x 15mm diameter bolt and nut with two (2) washers (M20)

No

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2	U shaped holding bracket size 100 x 60 x 4,5mm thick formed of rectangular hollow section 200mm long twice drilled and welded to top end of tubular section column	No	14		
3	12mm Diameter x 75mm long sleeved masonry anchor	No	56		
	<u>Welded angle irons in single lengths etc.</u>				
4	80 x 80 x 6mm Angle section bearers as lintels (support to brick on edge lintels)	m	45		
	<u>Welded steel columns, etc.</u>				
5	76 x 76 x 3mm Tubular section columns 3050mm high	No	14		
6	100 x 100 x 5mm Tubular section columns 3050mm high	No			Rate Only
	<u>Base plates, etc.</u>				
7	200 x 200 x 5mm Thick base plate with four holes for bolts and welded to bottom end of tubular section column	No	14		
	<u>PRESSED STEEL COMBINATION DOORS AND FRAMES</u>				
	<u>"Nty" doors</u>				
8	"Code 914" door frame size 914 x 2032mm high fitted with three (3) parliament hinges, complete with single security gate size 914 x 2032mm high overall formed of 25 x 25 x 2mm tubular section frame mitred and welded at angles and two 25 x 25 x 2mm tubular section horizontal middle rails, gate filled in with 12 x 12 x 12mm square section vertical rails at 100mm centres and fitted with locking bolt for padlock, frame formed of 25 x 38 x 2mm tubular section stiles and top rail mitred and welded at angles and fitted with three hinges welded to gate and frame, frame factory welded at maximum 250mm centres to door frame	No	4		
	<u>STEEL WINDOWS, DOORS, ETC</u>				
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9	<u>"Nty" steel residential windows with burglar bars to all sashes</u> Window code 5/2 size 1143 x 1272 and 1143 x 486mm high	No	18		
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	<u>BILL NO.11</u>			
	<u>TILING (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see " Specifications of materials and methods to be used - PW371-A"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
	<u>FLOOR TILING</u>			
	<u>300 x 300 x 11,5mm Ceramic floor tiles (PC R100.00/m2 VAT excl.) fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted waterproof jointing compound</u>			
1	On floors and landings	m2	256	
2	Skirting formed of ceramic tile cut to 300 x 75mm high	m	124	
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	<u>BILL NO.12</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see " Specifications of materials and methods to be used - PW371-A"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>"Polycop" polypropylene pipes:</u>			
	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			
	<u>"Polylink" polypropylene pipes:</u>			
	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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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

Concrete pipes:

Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings

Vitrified clay pipes:

Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings

uPVC pipes and fittings:

Soil, waste and vent pipes and fittings shall be solvent weld jointed

uPVC pressure pipes and fittings:

Pipes for water supply shall be of the class stated

Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings

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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

Copper pipes:

Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground

Fixing of pipes

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level

Lead pipes and fittings

All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel

Reducing fittings

Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained

Wire gratings

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Septic tanks

Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions

Exposed concrete surfaces

Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster

Excavations

No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling

"Soft rock" and "hard rock" shall be as defined in "Earthworks"

Laying, backfilling, bedding, etc. of pipes

Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions

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

Flush pans

Flush pans shall have straight or side outlets and "P" or "S" traps as necessary

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Stainless steel basins, sinks, wash troughs, urinals, etc.

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable

Waste unions

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings

Steel sectional water tanks

Tanks shall comply with SABS CKS 114

"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.

Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described

Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc

RAINWATER DISPOSAL

0,6mm Galvanised sheet iron with "Chromadek" finish on one side

1	100 x 100mm Eaves gutters with beaded front edge	m	93
2	Extra over eaves gutter for angle	No	4
3	Extra over eaves gutter for outlet for 100mm diameter pipe	No	16
4	100mm Diameter rainwater pipes	m	44
5	Extra over rainwater pipe for eaves or plinth offset 450mm projection	No	16
6	Extra over rainwater pipe for shoe	No	16

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	<u>Rainwater tank, etc.</u>				
7	1800mm diameter, 2040 high 5000L water storage tank with black lining with cover Rainwater tank (PC Amount R6 500-00 VAT incl. supplied and installed to site)	No	2		
	<u>'Chubb'</u>				
8	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	4		
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	<u>Plascon Sure Coat Gloss Enamel to exterior new fibre cement (NW 174). 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 Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 2 years in a C1 - inland environment.</u>				
3	On fascias and barge boards	m2	34		
	<u>Plascon Sure Coat Gloss Enamel to interior new fibre cement (NW 274). 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 Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.</u>				
4	On window sills not exceeding 300 mm girth	m	32		
	<u>ON METAL</u>				
	<u>Plascon Velvagio Satin to exterior new mild steel (NW 683). Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3 of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvagio Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.</u>				
5	On door frames	m2	8		
6	On windows with burglar bars	m2	160		
7	On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area)	m2	15		
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ON WOOD

Plascon Velvagio Satin to interior new wood (NW 571). 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 of Wood Primer (UC 2) with an overcoating time of 16 hours and finish with two coats of Velvagio Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.

8	On doors	m2	16
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Prepare and apply three coats polyurethane varnish

9	On beams and bearers, etc.	m2	21
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PAINTWORK ETC TO PREVIOUSLY PAINTED WORK**RATES SHOULD ALLOW FOR PREPARING EXISTINGSURFACES TO RECIEVE NEW PAINT****ON FLOATED PLASTER**

Prepare and apply two coats low odour premium quality highly washable and stain resistant acrylic emulsion paint on work in sound condition

10	On internal plastered walls	m2	198
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11	On window sills not exceeding 300mm wide	m	16
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ON FIBRE-CEMENT

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	<u>One coat primer, one coat universal undercoat and two coats super acrylic PVA paint</u>				
12	On ceilings and cornices	m2	193		
	<u>ON FAIR FACED BRICKWORK</u>				
	<u>Approved facebrick dressing on</u>				
13	Walls	m2			Rate Only
	<u>ON METAL</u>				
	<u>Remove all loose paint, spot prime bare metal surface, apply one coat alkyd based universal undercoat and twocoats superior quality universal enamel paint on work in sound condition:</u>				
14	Door frames	m2	16		
15	Window frames with burglar bars (both sides measured flat)	m2	30		
16	Rails, bars, pipes, etc not exceeding 300mm girth	m	5		
17	Roof coverings (Spray Painting Only)	m2	465		
	<u>ON WOOD</u>				
	<u>Spot priming bare wood surfaces, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on work in sound condition</u>				
18	On doors	m2	31		
	<u>Three coats matt varnish on work in sound condition:</u>				
19	On doors	m2	8		
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THE FOLLOWING PROVISIONAL SUMS ARE FOR
WORK TO BE EXECUTED BY SELECTED
SUBCONTRACTORS

The following Provisional Sums are for specialists work to be executed by a selected Sub-contractor who upon appointment in terms of the Conditions of Contract shall be deemed to be a Domestic Sub-Contractor to the Contractor

A Selected Sub-Contractor shall be a Sub-contractor executing work for which a sum of money is provided for in the Bills of Quantities or a Sub-contractor executing additional specialist work which arises as a result of an instruction by the Principal Agent/Engineer

Tender documents for such work shall be prepared by the Principal Agent/Engineer in consultation with and to the approval of the Contractor and such tender document shall be issued by the Principal Agent/Engineer to a list of tenderers agreed upon between the Principal Agent/Engineer and Contractor. Tenders shall be submitted to the Principal Agent/Engineer

The Selected Sub-contractor shall be chosen by the Principal Agent/Engineer and the Contractor, and the Contractor shall satisfy himself that such selected sub-contractor can meet the requirements of the Sub-Contract agreement and the Contractor shall inform the Principal Agent/Engineer accordingly

The procedure relating to the method of selection, obtaining of tenders, adjudication thereof and the appointment of the Selected Sub-contractor shall not create any contractual relationship between the Client and the Selected Sub-contractor

EARTHWORKS (PROVISIONAL)

SUPPLEMENTARY PREAMBLES

Carried to Collection

Section No. 3
EXTERNAL WORKS (PROVISIONAL)
Bill No. 1
SITE WORKS (PROVISIONAL)
Procost & Associates (PTY) Ltd

R

Nature of ground

A soils investigation has been carried out on site by the engineer and the report is available for inspection at the offices of the Civil/Structural Engineer listed on the front cover of 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

HYDROSEEDING

Hydroseeding including preparation prior to seeding and planting, the supply and planting of indegenioys seed mixture ration, hydroseeding mix, soil saver etc (Prime Cost Amount of R137.00 per m2, bidders to allow for profit only Vat excluded supplied, delivered to site and installed by a Specialist)

1	Hydroseeding	m2	2 800
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RETAINING WALL**Site clearance**

2	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	90
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EXCAVATION, FILLING, ETC**Excavation in earth not exceeding 2m deep**

3	Trenches	m3	20
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Carried to Collection

R

Section No. 3
EXTERNAL WORKS (PROVISIONAL)
Bill No. 1
SITE WORKS (PROVISIONAL)
Procost & Associates (PTY) Ltd

	<u>Extra over trench and hole excavations in earth for excavation in</u>				
4	Soft rock	m3	1		
5	Hard rock	m3	2		
	<u>Extra over all excavations for carting away</u>				
6	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	20		
	<u>Risk of collapse of excavations</u>				
7	Sides of trench and hole excavations not exceeding 1,5m deep	m2	60		
	<u>Keeping excavations free of water</u>				
8	Keeping excavations free of all water other than subterranean water			Item	
	<u>Earth filling supplied by the contractor compacted to 93% Mod AASHTO density</u>				
9	Backfilling to trenches, holes, etc	m3	20		
10	Long overhaul	m3km	10		
	<u>Compaction of surfaces</u>				
11	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	20		
	<u>Prescribed density tests on filling</u>				
12	"Modified AASHTO Density" test	No	3		
	<u>FLORA WALL RETAINING BLOCKS</u>				
13	Interlocking Flora wall retaining block grey 300 x 410 x 250mm 29kg in weight with and including filling material	m2	80		
	Carried to Collection			R	
	Section No. 3				
	EXTERNAL WORKS (PROVISIONAL)				
	Bill No. 1				
	SITE WORKS (PROVISIONAL)				
	Procost & Associates (PTY) Ltd				

Section No. 3

EXTERNAL WORKS (PROVISIONAL)

Bill No. 1

SITE WORKS (PROVISIONAL)

COLLECTION

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No****Amount**

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3**

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Section No. 3

EXTERNAL WORKS (PROVISIONAL)

Bill No. 1

SITE WORKS (PROVISIONAL)

Procost & Associates (PTY) Ltd

Item No		Quantity	Rate	Amount
	<u>SECTION NO.3</u>			
	<u>BILL NO.2</u>			
	<u>CONCRETE APRONS (PROVISIONAL)</u>			
	<u>APRONS AROUND BUILDINGS</u>			
	<u>Compaction of surfaces</u>			
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 90% Mod AASHTO density	m2	96	
	<u>20MPa/19mm concrete</u>			
2	Aprons cast in panels to falls	m3	11	
3	Stormwater channel cast in panels	m3	7	
	<u>Grooves, channels, mortices, sinkings, etc. in concrete</u>			
4	Segmental channel with radius 290mm and minimum depth of 100mm on top of concrete, incl. all excavations, cart away etc.	m	112	
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
5	Aprons to falls	m2	96	
	<u>Smooth formwork to sides</u>			
6	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	223	
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3			
	EXTERNAL WORKS (PROVISIONAL)			
	Bill No. 2			
	CONCRETE APRONS (PROVISIONAL)			
	Procost & Associates (PTY) Ltd			

Carried to Final Summary

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THE FOLLOWING PROVISIONAL SUMS ARE FOR
WORK TO BE EXECUTED BY SELECTED OR
DOMESTIC SUBCONTRACTORS

The following Provisional Sums are for specialists work to be executed by a selected Sub-contractor who upon appointment in terms of the Conditions of Contract shall be deemed to be a Domestic Sub-Contractor to the Contractor or work shall be executed by a domestic Sub-Contractor.

A Selected Sub-Contractor shall be a Sub-contractor executing work for which a sum of money is provided for in the Bills of Quantities or a Sub-contractor executing additional specialist work which arises as a result of an instruction by the Principal Agent/Engineer

Tender documents for such work shall be prepared by the Principal Agent/Engineer in consultation with and to the approval of the Contractor and such tender document shall be issued by the Principal Agent/Engineer to a list of tenderers agreed upon between the Principal Agent/Engineer and Contractor. Tenders shall be submitted to the Principal Agent/Engineer

The Selected Sub-contractor shall be chosen by the Principal Agent/Engineer and the Contractor, and the Contractor shall satisfy himself that such selected sub-contractor can meet the requirements of the Sub-Contract agreement and the Contractor shall inform the Principal Agent/Engineer accordingly

The procedure relating to the method of selection, obtaining of tenders, adjudication thereof and the appointment of the Selected Sub-contractor shall not create any contractual relationship between the Client and the Selected Sub-contractor.

A domestic subcontractor is any subcontractor who is selected and contracts with the main contractor to supply materials or execute work that is forming part of the main contract at the discretion of the main contractor with the approval of the Principal Agent/Engineer.

Carried to Collection

R

Section No. 4
PROVISIONAL SUMS

Bill No. 1
PROVISIONAL SUMS

Procost & Associates (PTY) Ltd

Electrical Installation

- 1 Provide the amount of R 269 000.00 (Two Hundred and Sixty Nine Thousand Rand) for Electrical supplied and installed complete

Item 269 000.00

- 2 Profit

Item

- 3 General attendance

Item

Carpot:

- 4 Provide the sum of R 150 000-00 (One Hundred and Fifty Thousand Rands) for carpots

Item 150 000.00

- 5 Allow for giving every facility to Specialists as described

Item

- 6 Allow for profit on above if required

Item

Plumbing:

- 7 Provide the sum of R 50 000-00 (Fifty Thousand Rands) for plumbing

Item 50 000.00

- 8 Allow for giving every facility to Specialists as described

Item

- 9 Allow for profit on above if required

Item

Carried to Collection

R

Section No. 4
PROVISIONAL SUMS

Bill No. 1
PROVISIONAL SUMS

Procost & Associates (PTY) Ltd

Section No. 4

PROVISIONAL SUMS

Bill No. 1

PROVISIONAL SUMS

COLLECTION

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Section No. 4

PROVISIONAL SUMS

Bill No. 1

PROVISIONAL SUMS

Procost & Associates (PTY) Ltd

Section No	FINAL SUMMARY	Page No	Amount
1	Preliminaries	48	
2	BUILDING	108	
3	EXTERNAL WORKS (PROVISIONAL)	115	
4	PROVISIONAL SUMS	119	
	Sub Total (A)		R
	<u>COMMUNITY LIAISON OFFICER</u> Provide the sum of R25 000.00 (Twenty Five Thousand Rand only) for payment of CLO for duration of the contract	Item	25 000.00
	Sub Total (B)		R
	<u>CONTINGENCIES</u>		
	Allow an amount of R 350 000.00 for contingencies to be used as directed by the Principal Agent and deducted in whole or in part if not required	Item	350 000.00
	Sub Total (C)		R
	Value Added Tax @ 15%		R
	Carried to Form of Tender		R
	Procost & Associates (PTY) Ltd		