

[illegible]

User note

*The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated descriptions utilised in these bills of quantities by inter alia referring to SANS construction standards. **Where such preambles are not applicable** (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the Standard System of Measuring Building Work (seventh edition) for works within South Africa or the Standard Method of Measuring Building Work for Africa 2015 (first edition) for works elsewhere in Africa, represent the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications*

Note that the text of the Standard System of Measuring Building Work (seventh edition) and that of the Standard Method of Measuring Building Work for Africa 2015 (first edition) is the same

The latest version of the General Preambles for Trades should be referred to should the General Preambles for Trades 2017 be revised in future

The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these **bills of quantities** and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained

Supplementary preambles and/or specifications are incorporated in these **bills of quantities** to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles

The **contractor's** prices for all items throughout these **bills of quantities** shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications

STRUCTURE OF THIS PRELIMINARIES BILL

Section A : A recital of the headings of the individual clauses in the aforementioned **JBCC** Principal Building Agreement

Section B : A recital of the headings of the individual clauses in the aforementioned **JBCC** General Preliminaries

Section C : Any special clauses to meet the particular circumstances of the project

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PRICING OF PRELIMINARIES

Should the **contractor** select Option A in the **contract data** for the adjustment of **preliminaries**, the amounts entered against the relevant items in these **preliminaries** are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)

SECTION A: PRINCIPAL BUILDING AGREEMENT

Interpretation (A1-A7)

1 Clause 1.0 - Definitions and interpretation

Pricing of bills of quantities

The **contractor** is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this **agreement**. Value Added Tax (VAT) is to be separately stated on the summary page of these **bills of quantities**

Items left unpriced will be deemed to be covered in prices against other items throughout these **bills of quantities** and no claim for any extras arising out of the **contractor's** omission to price any item will be entertained

Prices for all **construction equipment**, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary

Abbreviated descriptions

The items in these **bills of quantities** utilise abbreviated descriptions. It is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. However, should the full intent and meaning of any description not be clear, the **contractor** shall, before submission of his tender, call for a written directive from the **principal agent**, failing which it shall be assumed that the **contractor** has allowed in his pricing for materials and workmanship in terms of international best practice

Legal status of contractor

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1	<p>If the contractor constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then:</p> <ol style="list-style-type: none"> 1. These persons are deemed to be jointly and severally liable to the employer for the performance of this agreement 2. These persons shall notify the employer of their leader who has assigned authority to bind the contractor and each of these persons 3. The contractor shall not alter its composition or legal status without the prior written consent of the employer <p>F:..... V:..... T:.....</p>	Item	
2	<p>Clause 2.0 - Law, regulations and notices</p> <p><u>User note</u></p> <p>? NHBRC levies</p> <p>The employer shall allow for and pay any levies required by the National Home Builders Registration Council (NHBRC). The contractor warrants that he is registered and will maintain registration with the NHBRC for the duration of this agreement [2.1] ?</p> <p>F:..... V:..... T:.....</p>	Item	
3	<p>Clause 3.0 - Offer and acceptance</p> <p>F:..... V:..... T:.....</p>	Item	
4	<p>Clause 4.0 - Cession and assignment</p> <p>F:..... V:..... T:.....</p>	Item	
5	<p>Clause 5.0 - Documents</p> <p>Value Added Tax</p> <p>Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT)</p> <p>? Priced document as specification</p> <p>Clause 5.4 is deemed to be deleted</p> <p>The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any ?</p>		
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	<p><u>User note</u></p> <p><i>Insert the following where applicable</i></p> <p>? Electronic issue of drawings</p> <p>All drawings for this project will be issued electronically and the contractor shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically [5.6] ?</p> <p>F:..... V:..... T:.....</p>	
6	<p>Clause 6.0 - Employer's agents</p> <p><u>User note</u></p> <p><i>Delegated authority may be dealt with in B 5.0 of the contract data. Insert in the contract data "Refer to Bill No. 1 (Preliminaries)" should it be dealt with in Bill No. 1</i></p> <p>? Delegated authority</p> <p>The authority of the principal agent to issue contract instructions [17.1] and perform duties for specific aspects of the works is delegated to agents as follows [6.2]. This does not preclude the principal agent from issuing such contract instructions: ?</p> <p><u>User note</u></p> <p><i>Add delegated authority as may be required for other relevant consultants not listed hereinafter</i></p> <p>? 1. <u>Architect</u></p> <p><u>User note</u></p> <p><i>Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant <u>in keeping with the wishes of the principal agent</u></i></p> <p><i>Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA</i></p> <p>1.1 Duties [6.2] :</p> <p>The architect is responsible for the architectural design, functional design and quality inspection of the works</p> <p>1.2 Contract instructions [6.2; 17.1] :</p>	Item
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User note

Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent

2.1 Duties [6.2] :

The quantity surveyor is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions of the **works**

2.2 **Contract instructions** [6.2; 17.1] :

2.2.1 No **contract instructions** delegated to the quantity surveyor ?

? 3. Civil and structural engineer

User note

Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent

Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA

3.1 Duties [6.2] :

The civil and structural engineer is responsible for all aspects of civil and structural engineering design and quality inspection of the **works**

3.2 **Contract instructions** [6.2; 17.1] :

3.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the **agreement** other than in the **JBCC** Principal Building Agreement

3.2.2 Alteration to design, standards or quantity of the **works** provided that such **contract instructions** shall not substantially change the scope of the **works**

3.2.3 The **site** [13.0]

3.2.4 Compliance with the **law**, regulations and bylaws [2.1]

3.2.5 Provision and testing of samples of **materials and goods** and/or of finishes and assemblies of elements of the **works**

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- 3.2.6 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]
- 3.2.7 Removal or re-execution of work
- 3.2.8 Removal or substitution of any **materials and goods**
- 3.2.9 Protection of the **works**
- 3.2.10 Making good physical loss and repairing damage to the **works** [23.2.2]
- 3.2.11 Rectification of **defects** [21.2]
- 3.2.12 A **list for practical completion** specifying outstanding or defective work to be rectified to achieve **practical completion**, a **list for completion** and a **list for final completion** specifying outstanding or defective work to be rectified to achieve **final completion**
- 3.2.13 Expenditure of **budgetary allowances, prime cost amounts and provisional sums** ?

? 4. Mechanical engineer

User note

Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent

Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA

4.1 Duties [6.2] :

The mechanical engineer is responsible for all aspects of mechanical engineering design and quality inspection of the **works** ? and, where appointed by the **employer** for quantity surveying services in respect of the mechanical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions

4.2 **Contract instructions** [6.2; 17.1] :

- 4.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the **agreement** other than in the **JBCC Principal Building Agreement**
- 4.2.2 Alteration to design, standards or quantity of the **works** provided that such **contract instructions** shall not substantially change the scope of the **works**

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- 4.2.3 Compliance with the **law**, regulations and bylaws [2.1]
- 4.2.4 Provision and testing of samples of **materials and goods** and/or of finishes and assemblies of elements of the **works**
- 4.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]
- 4.2.6 Removal or re-execution of work
- 4.2.7 Removal or substitution of any **materials and goods**
- 4.2.8 Protection of the **works**
- 4.2.9 Making good physical loss and repairing damage to the **works** [23.2.2]
- 4.2.10 Rectification of **defects** [21.2]
- 4.2.11 A **list for practical completion** specifying outstanding or defective work to be rectified to achieve **practical completion**, a **list for completion** and a **list for final completion** specifying outstanding or defective work to be rectified to achieve **final completion**
- 4.2.12 Expenditure of **budgetary allowances, prime cost amounts and provisional sums** ?

? 5. Electrical engineer

User note

Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent

Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA

5.1 Duties [6.2] :

The electrical engineer is responsible for all aspects of electrical engineering design and quality inspection of the **works** ? and, where appointed by the **employer** for quantity surveying services in respect of the electrical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions

5.2 **Contract instructions** [6.2; 17.1] :

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- 5.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the **agreement** other than in the **JBCC** Principal Building Agreement
- 5.2.2 Alteration to design, standards or quantity of the **works** provided that such **contract instructions** shall not substantially change the scope of the **works**
- 5.2.3 Compliance with the **law**, regulations and bylaws [2.1]
- 5.2.4 Provision and testing of samples of **materials and goods** and/or of finishes and assemblies of elements of the **works**
- 5.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]
- 5.2.6 Removal or re-execution of work
- 5.2.7 Removal or substitution of any **materials and goods**
- 5.2.8 Protection of the **works**
- 5.2.9 Making good physical loss and repairing damage to the **works** [23.2.2]
- 5.2.10 Rectification of **defects** [21.2]
- 5.2.11 A **list for practical completion** specifying outstanding or defective work to be rectified to achieve **practical completion**, a **list for completion** and a **list for final completion** specifying outstanding or defective work to be rectified to achieve **final completion**
- 5.2.12 Expenditure of **budgetary allowances, prime cost amounts and provisional sums** ?

? 6. Wet services engineer

User note

Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent

Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA

6.1 Duties [6.2] :

The wet services engineer is responsible for all aspects of wet services engineering design and quality inspection of the **works**

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6.2 **Contract instructions** [6.2; 17.1] :

- 6.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the **agreement** other than in the **JBCC** Principal Building Agreement
- 6.2.2 Alteration to design, standards or quantity of the **works** provided that such **contract instructions** shall not substantially change the scope of the **works**
- 6.2.3 Compliance with the **law**, regulations and bylaws [2.1]
- 6.2.4 Provision and testing of samples of **materials and goods** and/or of finishes and assemblies of elements of the **works**
- 6.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]
- 6.2.6 Removal or re-execution of work
- 6.2.7 Removal or substitution of any **materials and goods**
- 6.2.8 Protection of the **works**
- 6.2.9 Making good physical loss and repairing damage to the **works** [23.2.2]
- 6.2.10 Rectification of **defects** [21.2]
- 6.2.11 A **list for practical completion** specifying outstanding or defective work to be rectified to achieve **practical** completion, a **list for completion** and a **list for final completion** specifying outstanding or defective work to be rectified to achieve **final completion**
- 6.2.12 Expenditure of **budgetary allowances, prime cost amounts** and **provisional sums** ?

? 7. Fire consultant

User note

Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent

Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA

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7.1 Duties [6.2] :

The fire consultant is responsible for all aspects of rational fire design and quality inspection of the **works**

7.2 **Contract instructions** [6.2; 17.1] :

- 7.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the **agreement** other than in the **JBCC** Principal Building Agreement
- 7.2.2 Alteration to design, standards or quantity of the **works** provided that such **contract instructions** shall not substantially change the scope of the **works**
- 7.2.3 Compliance with the **law**, regulations and bylaws [2.1]
- 7.2.4 Provision and testing of samples of **materials and goods** and/or of finishes and assemblies of elements of the **works**
- 7.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]
- 7.2.6 Removal or re-execution of work
- 7.2.7 Removal or substitution of any **materials and goods**
- 7.2.8 Protection of the **works**
- 7.2.9 Making good physical loss and repairing damage to the **works** [23.2.2]
- 7.2.10 Rectification of **defects** [21.2]
- 7.2.11 A **list for practical completion** specifying outstanding or defective work to be rectified to achieve **practical completion**, a **list for completion** and a **list for final completion** specifying outstanding or defective work to be rectified to achieve **final completion**
- 7.2.12 Expenditure of **budgetary allowances**, **prime cost amounts** and **provisional sums** ?

? 8. Health and safety consultant

User note

Insert the following but remove where the consultant is not relevant to this agreement. Edit both the duties and the contract instructions of the consultant in keeping with the wishes of the principal agent

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8.1 Duties [6.2] :

The health and safety consultant is responsible for all aspects of health and safety of the **works**. Without derogating from the generality thereof, the health and safety consultant will perform the following specific functions and duties in respect of the health and safety aspects of the **works**. He shall:

8.1.1 Act as the **employer's agent** in terms of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended

8.1.2 Prepare and update the health and safety specification for the **works**

8.1.3 Agree with the **contractor** the health and safety plan for the **works**

8.1.4 Carry out regular audits to ensure adherence to the safety plan and compliance with the act and regulations

8.1.5 Stop the execution of the **works** where the agreed specification or plan is not adhered to?

F:..... V:..... T:.....

Item

7 Clause 7.0 - Design responsibility

F:..... V:..... T:.....

Item

Insurances and securities (A8-A11)

8 Clause 8.0 - **Works** risk

F:..... V:..... T:.....

Item

9 Clause 9.0 - Indemnities

F:..... V:..... T:.....

Item

10 Clause 10.0 - Insurances

F:..... V:..... T:.....

Item

11 Clause 11.0 - **Securities**

User note

If it is deemed advisable, the extent of any guarantee for payment may be stated and whether it is required of the contractor to waive his lien. Edit the following clause:

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? **Guarantee for payment**

The **employer** shall provide to the **contractor** a **guarantee for payment** in the amount of ?.....Rand (R.....) ?
[11.5.1]. The **contractor** shall consequently waive his lien or right of continuing possession of the **works** [11.10]?

User note

Where it is expected of the contractor to waive his lien in terms of clause 11.10, the waiver of lien may be extended to subcontracts as follows:

? **Extension of waiver of lien**

The **contractor** shall ensure that a waiver of lien is included in all subcontracts and that the **works** executed on the **site** are kept free of all liens and other encumbrances at all times [11.10] ?

F:..... V:..... T:.....

Execution (A12 - A17)

12 Clause 12.0 - Obligations of the **parties**

? **Office accommodation**

The **contractor** shall provide, maintain and remove on **practical completion** air conditioned office accommodation with suitable tables and chairs for meetings to be held on the **site**. Such offices shall be kept clean and fit for use at all times [12.2.18] ?

? **Notice board**

The **contractor** shall erect in a position approved by the **principal agent**, maintain and remove on **practical completion** a notice board recommended by the South African Institute of Architects and as approved by the **principal agent** listing the names and logos of the **employer**, the **contractor** and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the **principal agent** for such notice boards to be erected [12.2.18] ?

Statutory and other notices

The **contractor** shall submit and/or comply with all statutory and other notices that may be required by any local or other authority in order not to cause any delay to the commencement of the **works** by the **contractor**. The **contractor** shall pay all deposits or fees in this regard

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Item

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	It is, however, specifically recorded that the employer shall be responsible for the timeous approval of building plans by any local or other authorities and the payment of any fees or charges related thereto		
	F:..... V:..... T:.....	Item	
13	Clause 13.0 - Setting out		
	F:..... V:..... T:.....	Item	
14	Clause 14.0 - Nominated subcontractors		
	F:..... V:..... T:.....	Item	
15	Clause 15.0 - Selected subcontractors		
	F:..... V:..... T:.....	Item	
16	Clause 16.0 - Direct contractors		
	Attendance on direct contractors		
	In respect of direct contractors the contractor shall:		
	1. Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials		
	2. Allow the use of personnel welfare facilities, where provided		
	3. Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation		
	4. Permit the direct contractor to use erected scaffolding, hoisting facilities, etc provided by the contractor , in common with others having the like right, while it remains erected on the site [16.1]		
	F:..... V:..... T:.....	Item	
17	Clause 17.0 - Contract instructions		
	? Site instructions		
	Instructions issued on site are to be recorded in a site instruction book which is to be supplied and maintained on site by the contractor ?		
	F:..... V:..... T:.....	Item	
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	<u>Completion (A18 - A24)</u>	
18	Clause 18.0 - Interim completion	N/A
19	Clause 19.0 - Practical completion F:..... V:..... T:.....	Item
20	Clause 20.0 - Completion in sections F:..... V:..... T:.....	Item
21	Clause 21.0 - Defects liability period and final completion F:..... V:..... T:.....	Item
22	Clause 22.0 - Latent defects liability period F:..... V:..... T:.....	Item
23	Clause 23.0 - Revision of the date for practical completion Substitution of materials and goods The removal or substitution of any materials and goods which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [17.1.8; 23.1 & 2] F:..... V:..... T:.....	Item
24	Clause 24.0 - Penalty for late or non-completion F:..... V:..... T:.....	Item
	<u>Payment (A25 - A27)</u>	
25	Clause 25.0 - Payment Prices submitted Where prices are submitted by the contractor or subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of this agreement and notwithstanding the fact that such prices may be used in an interim payment certificate , there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the certificate of final completion , it shall be in writing F:..... V:..... T:.....	Item
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26	<p>Clause 26.0 - Adjustment of the contract value and final account</p> <p>? Fluctuations in costs</p> <p>All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor [26.9.5] ?</p> <p><u>User note</u></p> <p><i>Insert the following or similar clause where tenant installation/user requirements may be delayed or omitted</i></p> <p>? Tenant installation/user requirements delayed</p> <p>There is a possibility that certain works related to tenant installation/user requirements may have to be delayed and may consequently not be executed prior to practical completion</p> <p>Should the contractor be instructed to do so he shall execute this work under the conditions pertaining to this agreement on the basis that a separate amount for preliminaries appurtenant to this work (if applicable) is agreed to between the contractor and the principal agent and on condition that instruction to proceed with such work is given to him within a period of three (3) calendar months after the date of practical completion of the works</p> <p>The employer reserves the right to omit such work without compensation to the contractor for loss of profit or any other loss which the contractor may suffer as a result of such omission ?</p> <p>Cost of claims</p> <p>All costs incurred by the contractor in the preparation of claims shall be borne by the contractor. This provision shall not preclude an adjudicator or an arbitrator appointed in terms of this agreement [30.6 & 7] from making a determination on costs</p> <p>Claims from subcontractors</p> <p>The contractor shall review, assess and adjudicate any claims received by him from any subcontractor and thereafter submit same to the principal agent with a recommendation in order to assist the principal agent in adjudicating the claim [26.6]</p> <p>F:..... V:..... T:.....</p>	
27	<p>Clause 27.0 - Recovery of expense and/or loss</p> <p>F:..... V:..... T:.....</p>	
	<p style="text-align: right;">Carried to Collection</p> <p>PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>	<p>Item</p> <p>Item</p> <p>R</p>

	<u>Suspension and termination (A28 - A29)</u>	
28	Clause 28.0 - Suspension by the contractor F:..... V:..... T:.....	Item
29	Clause 29.0 - Termination F:..... V:..... T:.....	Item
	<u>Dispute resolution (A30)</u>	
30	Clause 30.0 - Dispute resolution F:..... V:..... T:.....	Item
31	<u>Agreement</u> The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties F:..... V:..... T:.....	Item
32	<u>Contract data</u> <u>User note</u> <i>Insert under the above heading, with suitable sub-headings, any amendments, modifications, corrections or supplements to the contract data</i> Tenderer's selections Before submission of his tender the contractor is to complete the tenderer's selections in the contract data <u>User note</u> <i>All information for the above requires consultation with the contractor. The principal agent should not pre-select any of the alternatives available to the contractor</i> F:..... V:..... T:.....	Item
	<u>SECTION B: GENERAL PRELIMINARIES</u>	
	<u>User note</u> <i>Amendments, modifications, corrections or supplements to the General Preliminaries in Section B should be recorded in the contract data</i>	
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Should it be necessary to expand on any of the General Preliminaries clauses, the user should list the appropriate General Preliminary clause number and heading and insert the relevant provision under a suitable heading in bold as may be necessary

Definitions and interpretation (B1)

33 Clause 1.1 - Definitions

F:..... V:..... T:.....

Item

34 Clause 1.2 - Interpretation

F:..... V:..... T:.....

Item

Documents (B2)

35 Clause 2.1 - Checking of documents

F:..... V:..... T:.....

Item

36 Clause 2.2 - Provisional **bills of quantities**

User note

Check "wet trades" included in the bills of quantities and edit the following clause as may be necessary

? Multiple procurement

These **bills of quantities** are in multiple procurement format ie the "wet trades" - earthworks, concrete, formwork and reinforcement, precast concrete, masonry, waterproofing and sub-surface drainage - are provisionally (fully?) measured and the subsequent trades are **budgetary allowances** and/or **provisional sums** ?

F:..... V:..... T:.....

Item

37 Clause 2.3 - Availability of **construction information**

F:..... V:..... T:.....

Item

38 Clause 2.4 - Ordering of **materials and goods**

F:..... V:..... T:.....

Item

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Previous work and adjoining properties (B3)

39 Clause 3.1 - Previous work - dimensional accuracy

F:..... V:..... T:.....

Item

40 Clause 3.2 - Previous work - **defects**

F:..... V:..... T:.....

Item

41 Clause 3.3 - Inspection of adjoining properties

F:..... V:..... T:.....

Item

The site (B4)

42 Clause 4.1 - Handover of **site** in stages

F:..... V:..... T:.....

Item

43 Clause 4.2 - Enclosure of the **works**

Item

User note

Describe any specific hoarding requirements, other than already described in clause 4.2 or in the contract data

F:..... V:..... T:.....

44 Clause 4.3 - Geotechnical and other investigations

F:..... V:..... T:.....

Item

45 Clause 4.4 - Encroachments

F:..... V:..... T:.....

Item

46 Clause 4.5 - Existing premises occupied

F:..... V:..... T:.....

Item

47 Clause 4.6 - Services - known

F:..... V:..... T:.....

Item

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	<u>Management of contract (B5)</u>		
48	Clause 5.1 - Management of the works F:..... V:..... T:.....	Item	
49	Clause 5.2 - Progress meetings F:..... V:..... T:.....	Item	
50	Clause 5.3 - Technical meetings F:..... V:..... T:.....	Item	
	<u>Samples, shop drawings and manufacturer's instructions (B6)</u>		
51	Clause 6.1 - Samples of materials F:..... V:..... T:.....	Item	
52	Clause 6.2 - Workmanship samples F:..... V:..... T:.....	Item	
53	Clause 6.3 - Shop drawings F:..... V:..... T:.....	Item	
54	Clause 6.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....	Item	
	<u>Deposits and fees (B7)</u>		
55	Clause 7.1 - Deposits and fees F:..... V:..... T:.....	Item	
	<u>Temporary services (B8)</u>		
56	Clause 8.1 - Water F:..... V:..... T:.....	Item	
57	Clause 8.2 - Electricity F:..... V:..... T:.....	Item	
	Carried to Collection	R	
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58	<p>Clause 8.3 - Ablution and welfare facilities</p> <p>F:..... V:..... T:.....</p>	Item	
59	<p>Clause 8.4 - Communication facilities</p> <p>F:..... V:..... T:.....</p> <p><u>Prime cost amounts (B9)</u></p> <p>Clause 9.1 - Responsibility for prime cost amounts</p> <p><u>User note</u></p> <p><i>Where details of materials included in prime cost amounts are <u>not</u> readily available and it is therefore not possible for the contractor to price for waste, the relevant prime cost amount shall be inserted in the bills of quantities as a lump sum with the contractor being given the opportunity to separately price his overheads and profit and for taking delivery, etc as called for in this clause 9.1 of the preliminaries. In such case the fixing only or installation only of the relevant materials shall be provisionally measured for the contractor to price and shall be re-measured upon completion</i></p> <p><i>Where details of materials for which prime cost amounts are to be allowed <u>are</u> readily available, the quantity surveyor may elect to insert the relevant prime cost amounts in measured items, which measured items shall contain sufficient detail for the contractor to price for fixing and installation, waste, etc</i></p> <p>F:..... V:..... T:.....</p> <p><u>Attendance on subcontractors (B10)</u></p>	Item	
61	<p>Clause 10.1 - General attendance</p> <p><u>User note</u></p> <p><i>General attendance is defined as being the duties of the contractor in terms of clause 12.2 of the JBCC n/s subcontract agreement</i></p> <p>F:..... V:..... T:.....</p>	Item	
62	<p>Clause 10.2 - Special attendance</p> <p><u>User note</u></p> <p><i>Insert details after the provisional sums (nominated or selected subcontract amounts) for any special attendance where specifically required for each n/s subcontractor separately</i></p>		
Carried to Collection		R	
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It is important to note that general attendance only requires the contractor to "permit the subcontractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right while it remains erected on the site" (refer to 12.2.13 of the JBCC n/s subcontract agreement). Many n/s subcontractors qualify their tenders to exclude scaffolding and/or hoisting facilities. Especially scaffolding could be an expensive item and it may be necessary in order to avoid claims to require the contractor to provide for the extended use of scaffolding for specific subcontracts within a description of "special attendance" in the applicable bill

F:..... V:..... T:.....

Item

General (B11)

63 Clause 11.1 - Protection of the **works**

F:..... V:..... T:.....

Item

64 Clause 11.2 - Protection/isolation of existing **works** and **works** occupied in **sections**

F:..... V:..... T:.....

Item

65 Clause 11.3 - Security of the **works**

F:..... V:..... T:.....

Item

66 Clause 11.4 - Notice before covering work

F:..... V:..... T:.....

Item

67 Clause 11.5 - Disturbance

User note

The following clause may be used should "disturbance" [11.5] need to be extended

Disturbance

? All work is to be carried out in such a manner as to cause no unacceptable or unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic in so far as they exceed the permissible limitations set by government legislation or by the local authority. Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the **construction period** or **contract value** whatsoever ?

F:..... V:..... T:.....

Item

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68	<p>Clause 11.6 - Environmental disturbance</p> <p>? Controlling all forms of pollution</p> <p>The contractor shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution emanating from the site during the construction period due inter alia to noise, artificial light, wind-blown sand, dust, deposits of mud, etc</p> <p>The contractor is to ensure that all roads which border the site and are used by the contractor during the execution of the works are kept clean and free of any dirt or debris caused by the execution of the works ?</p> <p><u>User note</u></p> <p><i>Insert the following clause if an environmental management plan (EMP) is available and insert the EMP in an annexure</i></p> <p>? Environmental management plan</p> <p>The employer has prepared an environmental management plan (EMP) (refer to Annexure ? for a copy of the relevant plan). The contractor shall price opposite this item for compliance with all the requirements of such EMP ?</p> <p>F:..... V:..... T:.....</p>	Item	
69	<p>Clause 11.7 - Works cleaning and clearing</p> <p>F:..... V:..... T:.....</p>	Item	
70	<p>Clause 11.8 - Vermin</p> <p>F:..... V:..... T:.....</p>	Item	
71	<p>Clause 11.9 - Overhand work</p> <p>F:..... V:..... T:.....</p>	Item	
72	<p>Clause 11.10 - Tenant installations</p> <p>F:..... V:..... T:.....</p>	Item	
73	<p>Clause 11.11 - Advertising</p> <p>F:..... V:..... T:.....</p>	Item	
<p><u>SECTION C: SPECIFIC PRELIMINARIES</u></p>			
<p>Carried to Collection</p>			R
<p>PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>			

	<p><u>User note</u></p>		
	<p><i>Users shall avoid inserting in Section C items which may be construed as amending, modifying, correcting or supplementing the provisions of the JBCC Principal Building Agreement. Such amendments, modifications, corrections or supplements should be kept to the absolute minimum and should be inserted in Section A under the recited clause headings of the JBCC Principal Building Agreement in this Bill No. 1</i></p> <p><i>Selected examples of typical clauses are provided to indicate ways of describing such clauses. Users must delete, adapt or add to these examples to suit their particular circumstances</i></p>		
74	<p>Warranties for materials and workmanship</p> <p>Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the entity supplying the materials and/or executing the work and shall deliver same to the principal agent on final completion of the contract</p> <p>The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of practical completion and that any defects that may arise during the specified period shall be made good at the expense of the entity supplying the materials and/or doing the work, upon written notice to do so</p> <p>The warranty will not be enforced if the work is damaged by defects in the execution of the works, in which case the responsibility for replacement shall rest entirely with the contractor</p> <p>F:..... V:..... T:.....</p>	Item	
75	<p>Overtime</p> <p>Should overtime be required to be worked for any reason whatsoever, the cost of such overtime is to be borne by the contractor unless the principal agent has specifically authorised, prior to execution thereof, that costs for such overtime are to be borne by the employer</p> <p>F:..... V:..... T:.....</p>	Item	
76	<p>Cooperation of the contractor for cost management</p> <p>It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the contract value does not exceed the budget</p> <p>F:..... V:..... T:.....</p>	Item	
	<p style="text-align: right;">Carried to Collection</p> <p>PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>	R	

77	<p>Overloading</p> <p>The contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the works or temporary works eg scaffolding, etc. The contractor shall submit details of his proposed loading, storage, plant erection, etc to the principal agent for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the principal agent's requirements in connection with the provision of temporary support work, etc. Any damage caused to the works by overloading shall be made good by the contractor at his sole expense</p> <p>F:..... V:.....T:.....</p>	Item
78	<p>Propping of floors below</p> <p>The contractor is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of materials and goods and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the principal agent and the cost thereof shall be borne by the contractor</p> <p>F:..... V:.....T:.....</p>	Item
79	<p>Testing of flat roof waterproofing for watertightness</p> <p>Flat roof waterproof areas shall be flooded and kept "ponded" for at least forty eight (48) hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing</p> <p>F:..... V:.....T:.....</p> <p>User note</p> <p><i>Insert the following where a health and safety specification is <u>not</u> yet available. Note that there is an obligation on the employer to ensure that the contractor has priced opposite this item for the compliance with the act and the regulations and the reasonable provisions of the health and safety specification</i></p>	Item
80	<p>Health and safety</p> <p>Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specification [2.1]</p>	
<p style="text-align: right;">Carried to Collection</p> <p>PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>		<p style="text-align: center;">R</p>

User note

Insert the following where a health and safety specification is available. Note that there is an obligation on the employer to ensure that the contractor has priced opposite this item for the compliance with the act and the regulations and the reasonable provisions of the health and safety specification

Health and safety

Without limiting the generality of the provisions of clause 2.0, the **contractor's** attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. It is specifically stated that the **employer** shall prepare a documented health and safety specification for the **works** (refer to Annexure ? for a copy of the relevant specification) and that the **employer** shall ensure that the **contractor** has made provision for the cost of health and safety measures during the execution of the **works**. The **contractor** shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification [2.1]

The **contractor** shall:

1. Comply with the health and safety specification for the **works**
2. Prepare and agree with the health and safety consultant the health and safety plan for the **works**
3. Cooperate with the health and safety consultant in all respects
4. Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification
5. Conform to the conditions contained in the **employer's** health and safety specification

THE FOLLOWING NOTE IS COMPULSORY: The contractor's Health and Safety representative will be expected to be on site on a full-time basis. This includes all working times throughout the duration of the construction works.

F:..... V:..... T:.....

Item

81 Green star building certification

User note

Insert the provisions called for by the relevant green star consultant should it be a requirement that the project be submitted for green star certification

F:..... V:..... T:.....

Item

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	<p><u>Flagmen</u></p> <p>Flagmen will be required during all working times as per the express requirements of working in close proximity to a railroad. A minimum of one flagman should be posted on either side of the construction area and shall notify the site workers as and when the passenger train is approaching in line with the health and safety officer's instructions</p> <p>F:..... V:..... T:.....</p>	Item	
82	<p>Broad based black economic empowerment (BBBEE)</p> <p>Tenders submitted will be evaluated taking into account their empowerment rating</p> <p>The employer will be monitoring the broad based black economic empowerment (BBBEE) status of the contractor throughout the execution of the works</p> <p>The contractor is to submit to the principal agent on an annual basis a schedule of spend, split into vendors engaged as subcontractors and suppliers indicating their BBBEE rating including proof of the said rating</p> <p>F:..... V:..... T:.....</p>	Item	
83	<p>Advertising rights</p> <p>The employer may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The contractor shall not prevent such an arrangement and will assist in the facilitation of same. The position and type of advertising structure to be agreed with the principal agent so as not to hinder the contractor in meeting his obligations under this agreement</p> <p>F:..... V:..... T:.....</p>	Item	
84	<p>Confidentiality</p> <p>The contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all subcontractors and suppliers. Such information shall not be used in any way except in connection with the execution of the works</p> <p>No information regarding this project shall be published or disclosed without the prior written consent of the employer</p> <p>F:..... V:..... T:.....</p>	Item	
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85 Media releases

All rights of publication of articles in the media, together with any advertising relating thereto or in any way connected with this project, shall vest with the **employer**

The **contractor** together with his **subcontractors** shall not, without the prior written consent of the **employer**, cause any statement or advertisement connected with this project to be printed, screened or aired by the media

F:..... V:.....T:.....

SUMMARY OF CATEGORIES

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

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PRELIMINARIES AND GENERAL

Bill No. 1

PRELIMINARIES AND GENERAL

[illegible]

Item No	Quantity	Rate	Amount
<u>BILL NO 1</u>			
<u>ALTERATIONS TO EXISTING BUILDING</u>			
Notes: 1. Tenderers are advised to study the Prasa Norms, Guidelines and Standards (NGS) for Station Facilities and Part B of the Prasa Specifications before pricing this bill			
<u>GENERAL NOTES</u>			
In taking down and removing existing work the utmost care shall be observed to prevent any structural or other damage to remaining portions of the building and the Contractor shall provide all shoring, needling, strutting, etc. to ensure stability Any water supply and other piping that may be encountered and which is found necessary to disconnect or cut shall, after such disconnection or cutting has been authorised by the Representative/Agent, be effectively stopped off			
<u>SIZE PERTAINING TO EXISTING WORK</u>			
The Contractor is advised to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the correctness of sizes of all new work. All sizes given in relation to existing work are approximate.			
<u>MAKING GOOD DAMAGED WORK</u>			
The Contractor shall make good in all trades to existing work where damaged or disturbed through the alterations with all necessary new materials to match the existing			
<u>PROCEDURE OF WORK</u>			
The Representative/Agent reserves the right to direct the order in which the contract will be executed, should circumstances necessitate such action.			
Carried to Collection			
SITE WORKS Bill No. 1 ALTERATIONS			

LOSS BY THEFT, FIRE OR OTHERWISE

The risk of loss, theft, fire, storm, riot or otherwise of the buildings to be demolished and the materials therein shall rest entirely with the contractor immediately upon the handing over of the site.

WATER AND OTHER PIPING

Any water supply or other piping that may be met with and found necessary to disconnect or cut are to be effectually stopped off or grubbed up and removed and any new connections that may be necessary and are to be made with proper fittings

ELECTRICAL AND OTHER SERVICES

Special care is to be exercised not to unnecessarily interfere with any electric light, bell, power, telephone or other wires and fittings that may be met with and due notice must be given to the Architect.

The contractor must protect all work not removed such as walls, floors, doors, windows, fittings, etc. from damage during the progress of the work and provide all necessary materials for doing so.

The contractor shall demolish the portions of existing structures or buildings with a minimum amount of damage to adjoining buildings, materials, pavings, etc. Any damage caused is to be made good at his own expense with materials to match the existing.

MAKING GOOD, ETC

Prices are to include for making good in all trades to existing work, where damaged or disturbed through alterations, with all necessary new materials to match existing and leave complete and perfect in every respect.

REMOVAL OF EXISTING WORK

Breaking down and removing of existing pavers

1	Interlocking pavers	m2	108
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ALTERATIONS

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Section No. 2

Bill No. 1

ALTERATIONS

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SITE WORKS
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ALTERATIONS

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Item No	Quantity	Rate	Amount
<u>BILL NO 2</u>			
<u>EARTHWORKS (PROVISIONAL)</u>			
Tenderers are to refer to the Model Preambles for Trades (Latest Edition) and Supplementary Preambles for further description and amplification of work in this section			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Nature of ground</u>			
A soils investigation has not been carried out on site by the engineer. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" and where conditions of a more difficult character are indicated these are separately measured			
<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			
<u>Filling</u>			
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			
<u>EXCAVATIONS</u>			
<u>Excavation not exceeding 1,5m deep</u>			
1	In Trenches	m3	7
<u>EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER</u>			
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SITE WORKS			
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EARTHWORKS			

	<u>Extra over trench and hole excavations in earth for excavation in</u>				
2	Soft rock	m3	1		
3	Hard rock	m3	0.4		
	<u>Carting Away</u>				
4	Carting away of surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor off site (provisional)	m3	7		
	<u>Filling etc</u>				
5	Backfilling to excavated surfaces	m3	2		
	<u>Imported G5 earth filling compacted in 150mm layers</u>				
6	Under floors, steps, pavings, etc	m3	15		
	<u>Compaction of surfaces</u>				
	<u>Compaction of natural or excavated ground surface under floors etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density</u>				
7	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	106		
	<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>				
8	Modified AASHTO Density test	No	2		
	<u>Soil insecticide; applied in accordance with manufacturers specification</u>				
9	Under floors etc	m2	106		
10	To bottoms and sides of trenches etc	m2	63		
	Carried to Collection			R	
	SITE WORKS				
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	EARTHWORKS				

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Bill No. 2

EARTHWORKS

COLLECTION

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Bill No. 2
EARTHWORKS

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Item No		Quantity	Rate	Amount
	<u>BILL NO 3</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u>			
	Tenderers are to refer to the Model Preambles for Trades (Latest Edition) and Supplementary Preambles for further description and amplification of work in this section			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Formwork Descriptions 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.			
	Formwork to soffits of (solid) slabs etc shall be deemed to be to slabs not exceeding 255mm thick 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.			
	<u>All Concrete grades/strengths are to the engineer's specifications</u>			
	Cost of tests			
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor and to the approval of the architect.			
	Carried to Collection		R	
	SITE WORKS			
	Bill No. 3			
	CONCRETE, FORMWORK AND REINFORCEMENT			

**REINFORCED CONCRETE CAST AGAINST
EXCAVATED SURFACES**

30MPa/19mm concrete

1	Raft slab and thickenings	m3	13
2	Aprons	m3	4

TEST CUBES

3	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	2
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CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a power float

4	Surface beds, slabs, etc	m2	106
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MOVEMENT, JOINTS ETC

Saw cut joints

5	3 x 55mm saw-cut joints in top of concrete including 10 x 10 flexible sealant	m	54
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FORMWORK

**SMOOTH FORMWORK (DEGREE OF
ACCURACY II)**

Smooth formwork to sides of:

6	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	32
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REINFORCEMENT (PROVISIONAL)

**Mild steel and high tensile steel reinforcement to
structural concrete work**

7	Bars in various diameters	t	1.63
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SITE WORKS

Bill No. 3

CONCRETE, FORMWORK AND REINFORCEMENT

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CONCRETE, FORMWORK AND REINFORCEMENT

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SITE WORKS

Bill No. 3

CONCRETE, FORMWORK AND REINFORCEMENT

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SOIL DRAINAGE

Drain pipes to have a minimum fall of 1:60

uPVC Pipes

6	110mm UPVC Pipe laid in and including trenches not exceeding 1m deep.	m	35
7	110mm UPVC Pipe encased in concrete laid in and including trenches not exceeding 1m deep.	m	5
8	110mm Bends	No	4
9	110mm Access bends	No	4
10	110mm Junctions	No	2
11	110mm Access junction	No	2
12	Manhole 600 x 600 x 150mm deep	No	1
13	Cast iron manhole cover and frame 800 x 800mm wide	No	1
14	Lockable poly concrete manhole covers complete with frames	No	1
<u>uPVC gulleys</u>			
15	110mm Gulley including precast surround and PVC grating etc. not exceeding 500mm deep	No	2

TESTING

16	Testing soil drainage system	Item	
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WATER SUPPLIES

Class 16 HDPE water supply pipes in trenches

17	32mm water supply in and including trenches not exceeding 1m deep to join onto existing water supply to other Blocks	m	40
18	Fittings to 32mm pipe	No	4

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SITE WORKS

Bill No. 4

PLUMBING AND DRAINAGE

19 32mm gate valve

No

1

TESTING

20 Test and commission the complete water supply installation system including pressure testing of the all primary flow and return pipes, cold water pipes and hot water delivery pipes and performance test of the installation

Item

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SITE WORKS
Bill No. 4
PLUMBING AND DRAINAGE

Section No. 2

Bill No. 4

PLUMBING AND DRAINAGE

COLLECTION

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SITE WORKS

Bill No. 4

PLUMBING AND DRAINAGE

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Item No		Quantity	Rate	Amount
	<u>BILL NO 6</u>			
	<u>PERIMETER FENCING</u>			
	Notes: 1.Tenderers are advised to study the Prasa Norms, Guidelines and Standards (NGS) for Station Facilities and Part B of the Prasa Specifications before pricing this bill			
	<u>Installation</u> Installation of all fences shall be in accordance with the manufacturer's instructions. Any deviation from the recommended installation instructions shall be corrected at the contractor's cost The installed fence shall include a minimum of 10-year warranty			
	<u>STEEL PALISADE FENCING</u>			
	<u>Supply and installation of mild steel palisade fencing panels comprising vertical posts of hollow square tube steel sections to include excavations, concrete bases, backfilling and erecting into position with intermediate vertical panel members of 40 x 40 x 3mm mild steel angle sections @ approx 150mm c/c with 3 spiked tops welded to 25 x 25 x 3mm horizontal mild steel angle sections to tops and bottoms (paint finishes included elsewhere)</u>			
1	2100mm high palisade fence	m	75	
	<u>Supply and installation of flatwrap security razor wire mounted to tops of perimeter walls and/or fences</u>			
2	300mm high flat razor wire fence to tops of gates and fences	m	75	
3	1800mm wide x 2100mm high pedestrian gate	No	2	
	Carried to Collection			R
	SITE WORKS Bill No. 6 PERIMETER FENCING			

PAINTING

Prepare surfaces and apply one coat zinc-chromate primer and two coats gloss enamel paint

4	To steel palisade fences	m2	315
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PERMANENT BARRIER, SCREENS ETC

The barrier shall include all construction work for (vertical posts, panels etc) complete

Hoarding barrier comprising corrugated fence panels and intermediate timber posts to close off access to existing redundant buildings

5	1800mm high hoarding barrier	m	115
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SITE WORKS
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PERIMETER FENCING

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Bill No. 6

PERIMETER FENCING

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SITE WORKS

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PERIMETER FENCING

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Item No		Quantity	Rate	Amount
	<u>BILL NO 7</u>			
	<u>SITE CLEARANCE AND PAVING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Notes: 1. Tenderers are advised to study the Prasa Norms, Guidelines and Standards (NGS) for Station Facilities and Part B of the Prasa Specifications before pricing this bill			
	Tenderers are to refer to the Model Preambles for Trades (Latest Edition) and Supplementary Preambles for further description and amplification of work in this section			
	<u>SITE CLEARANCE, ETC</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	115	
2	Removal of top soil to a depth not exceeding 200mm	m2	115	
	<u>SOIL POISONING</u>			
	<u>Weedkiller: Approved soil insecticide applied in accordance with manufacturers specification</u>			
3	Under paving etc	m2	55	
	<u>Earth filling supplied by the Contractor under pavings, etc: All density tests etc to be included with the rates below</u>			
4	20mm thick sand bed on compacted earth in preparation for paving blocks (measured elsewhere); allow for grout in paver joints or other suitable adhesive	m2	55	
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	SITE WORKS			
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SITE CLEARANCE AND PAVING

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SITE CLEARANCE AND PAVING

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Item No		Quantity	Rate	Amount
	<u>BILL NO 1</u>			
	<u>ALTERATIONS TO EXISTING BUILDING</u>			
	Notes: 1. Tenderers are advised to study the Prasa Norms, Guidelines and Standards (NGS) for Station Facilities and Part B of the Prasa Specifications before pricing this bill			
	<u>GENERAL NOTES</u>			
	In taking down and removing existing work the utmost care shall be observed to prevent any structural or other damage to remaining portions of the building and the Contractor shall provide all shoring, needling, strutting, etc. to ensure stability			
	Any water supply and other piping that may be encountered and which is found necessary to disconnect or cut shall, after such disconnection or cutting has been authorised by the Representative/Agent, be effectively stopped off			
	<u>EXISTING BUILDINGS</u>			
	The existing buildings will be in use and occupied during the progress of the contract and the Contractor will be required to carry out the works in such a manner as will least interfere with the occupants and with the minimum of disturbance			
	<u>SIZE PERTAINING TO EXISTING WORK</u>			
	The Contractor is advised to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the correctness of sizes of all new work. All sizes given in relation to existing work are approximate.			
	<u>MAKING GOOD DAMAGED WORK</u>			
	The Contractor shall make good in all trades to existing work where damaged or disturbed through the alterations with all necessary new materials to match the existing			
	Carried to Collection		R	
	STATION PLATFORMS Bill No. 1 ALTERATIONS			

PAINTWORK

Where plasterwork on walls, ceilings, etc. are required to be patched or made good, prices are to include for the appropriate priming coat and one coat undercoat to receive paint finishing coats which are measured elsewhere

PROCEDURE OF WORK

The Representative/Agent reserves the right to direct the order in which the contract will be executed, should circumstances necessitate such action.

LOSS BY THEFT, FIRE OR OTHERWISE

The risk of loss, theft, fire, storm, riot or otherwise of the buildings to be demolished and the materials therein shall rest entirely with the contractor immediately upon the handing over of the site.

WATER AND OTHER PIPING

Any water supply or other piping that may be met with and found necessary to disconnect or cut are to be effectually stopped off or grubbed up and removed and any new connections that may be necessary and are to be made with proper fittings

ELECTRICAL AND OTHER SERVICES

Special care is to be exercised not to unnecessarily interfere with any electric light, bell, power, telephone or other wires and fittings that may be met with and due notice must be given to the Architect.

The contractor must protect all work not removed such as walls, floors, doors, windows, fittings, etc. from damage during the progress of the work and provide all necessary materials for doing so.

The contractor shall demolish the portions of existing structures or buildings with a minimum amount of damage to adjoining buildings, materials, pavings, etc. Any damage caused is to be made good at his own expense with materials to match the existing.

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ALTERATIONS

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MAKING GOOD, ETC

Prices are to include for making good in all trades to existing work, where damaged or disturbed through alterations, with all necessary new materials to match existing and leave complete and perfect in every respect.

REMOVAL OF EXISTING WORK

Breaking down and removing concrete etc

1	Precast steps 2m wide	m	25
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REMOVAL OF EXISTING WORK

Breaking down and removing of existing pavers

2	Interlocking pavers	m2	250
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Taking down and removing roofs, floors, panelling, ceilings, partitions, etc.

3	Rainwater box gutters	m	46
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REPAIR WORKS TO EXISTING

REPAIR WORK TO DAMAGED STEEL COLUMNS

4	Allow a sum of R15 000.00 (Fifteen Thousand Rands) for repair work to rust damaged steel columns in platform sheds. Amount to include the replacement of redundant steel sections and/or welding or bolting new steel plates to existing steel surfaces	Item	15 000.00
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ALTERATIONS

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ALTERATIONS

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Item No		Quantity	Rate	Amount
	<u>BILL NO 2</u>			
	<u>PRECAST CONCRETE</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Notes:			
	1.Tenderers are advised to study the Prasa Norms, Guidelines and Standards (NGS) for Station Facilities and Part B of the Prasa Specifications before pricing this bill			
	<u>Sizes</u>			
	Blocks, sills, etc measured linear shall be made in suitable lengths. Large size setting out drawings shall be prepared where necessary and submitted to the principal agent for approval before moulds are made			
	<u>General</u>			
	Where kerbstones, blocks, etc are laid in ground descriptions shall be deemed to include necessary excavation, filling in and ramming			
	<u>PRECAST RISERS, TREADS, PERGOLA BEAMS, ETC</u>			
	<u>Precast treads and risers including bedding, jointing and pointing to match existing</u>			
1	2000mm wide pre-cast concrete steps to existing staircase	No	8	
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	STATION PLATFORMS Bill No. 2 PRECAST CONCRETE			

Item No		Quantity	Rate	Amount
<u>BILL NO 3</u>				
<u>PLUMBING AND DRAINAGE</u>				
<u>(PROVISIONAL)</u>				
Notes:				
1. Tenderers are advised to study the Prasa Norms, Guidelines and Standards (NGS) for Station Facilities and Part B of the Prasa Specifications before pricing this bill				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Wire gratings Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings</u>				
<u>Stormwater channels Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material</u>				
<u>RAINWATER DISPOSAL</u>				
<u>Mild steel box gutters to match existing</u>				
1	400mm wide x 200mm high box gutters	m	37	
2	150mm diameter downpipe to match gutters	m	29	
3	Extra over eaves gutter for stopped end	No	6	
4	Extra over eaves gutter for outlet for 150mm diameter pipe	No	9	
5	Rain water shoe	No	9	
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PLUMBING AND DRAINAGE				

Item No		Quantity	Rate	Amount
	<u>BILL NO 4</u>			
	<u>PAINTWORK</u>			
	Notes: 1. Tenderers are advised to study the Prasa Norms, Guidelines and Standards (NGS) for Station Facilities and Part B of the Prasa Specifications before pricing this bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>DESCRIPTIONS</u>			
	Descriptions of paintwork shall be deemed to include for all cutting in			
	<u>ON PREVIOUSLY PAINTED SURFACES</u>			
	<u>PREPARATORY WORK TO EXISTING WORK</u>			
	Previously painted metal surfaces shall be cleaned of all rust, scale and dirt, removed by scraping or with steel brushes. All oil and grease shall be removed and perfectly clean surfaces obtained. If necessary, the surfaces shall be de-grease			
	<u>ON METAL SURFACES</u>			
	<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel</u>			
1	To 1000mm high steel balustrades (both sides measured)	m2	1 034	
2	To steel section members with a girth not exceeding 300mm	m	1 274	
3	To steel section members with a girth exceeding 300mm	m2	762	
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	STATION PLATFORMS			
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	PAINTWORK			

Item No		Quantity	Rate	Amount
BILL NO 5				
SITE CLEARANCE AND PAVING				
SUPPLEMENTARY PREAMBLES				
Notes:				
1. Tenderers are advised to study the Prasa Norms, Guidelines and Standards (NGS) for Station Facilities and Part B of the Prasa Specifications before pricing this bill				
Tenderers are to refer to the Model Preambles for Trades (Latest Edition) and Supplementary Preambles for further description and amplification of work in this section				
SITE CLEARANCE, ETC				
Site clearance				
1	Removal of top soil to a depth not exceeding 200mm	m2	140	
SOIL POISONING				
Weedkiller; Approved soil insecticide applied in accordance with manufacturers specification				
2	Under paving etc	m2	140	
Earth filling supplied by the Contractor under pavings, etc: All density tests etc to be included with the rates below				
3	20mm thick sand bed on compacted earth in preparation for paving blocks (measured elsewhere); allow for grout in paver joints or other suitable adhesive	m2	140	
Imported G5 earthfilling supplied by the contractor compacted to 96% Mod AASHTO density:				
4	Under pavings	m3	21	
PAVING				
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SITE CLEARANCE AND PAVING

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| 2 | PRECAST CONCRETE |
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Item No	Quantity	Rate	Amount
<p><u>SECTION NO 4</u></p> <p><u>BILL NO 1</u></p> <p><u>STRUCTURAL WORKS</u></p> <p><u>Tenderers are advised to study the Prasa Norms, Guidelines and Standards (NGS) for Station Facilities and Part B of the Prasa Specifications</u></p> <p><u>ALTERNATIVE BUILDING TECHNOLOGY</u></p> <p>Alternative Building Technology (ABT) comprises the use of custom designed containers complete with internal fittings, fixtures to suite the functional/operational needs of the end-user</p> <p><u>NOTES</u></p> <p>Construction of an ABT Container office structure to be built according to the detailed design</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Where descriptions in the Bills of Quantities differ from the respective issued drawings, the descriptions and specifications in the drawings shall take precedence.</u></p> <p><u>The works in this section are deemed to be specialist works, and shall be built to match the issued design drawings.</u></p> <p><u>Collaboration between the architect, engineer and the ABT construction specialist will take place throughout the construction phase. Where the specialist's proposed works may differ from the issued drawings, the specialist shall consult with the architect and or engineer prior to making proposed changes. No claims arising from work done prior to approval will be entertained.</u></p> <p><u>STEEL CONTAINERS</u></p> <p>NOTE: All rates for the delivery of steel containers are to include lifting, hoisting, hire of machinery such as cranes, wayleave applications and all statutory requirements, including all transportation costs</p>			
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<p>ABT CONTAINERS Bill No. 1 STRUCTURAL WORKS</p>			

<u>Supply and delivery of the following steel containers for rigging and conversion at the ABT contractor's rigging facility:</u>					
1	Container of size: 12190mm long x 2350mm wide x 3400mm high	No	2		
<u>Delivery, placing and connection of existing services to ABT container structure</u>					
2	Delivery of complete and converted ABT container office structure from rigging site to the construction site including placing in position and connection of existing electrical, mechanical, water supply and drainage services.		Item		
<u>STRUCTURAL STEELWORK</u>					
<u>GALVANISED STEEL COLUMNS AND BEAMS</u>					
<u>Welded beams in single lengths with flat bearer and connection plates, bolted to steel</u>					
3	203 x 203 x 46kg/m I-section columns	t	0.10		
4	203 x 203 x 46kg/m I-section beams	t	0.05		
<u>Bolts to columns, beams, etc</u>					
5	M16 HD Bolts	No	8		
<u>STEEL LIGHTWEIGHT FRAME</u>					
<u>Steel frame affixed to ABT container surfaces to specialist design installed complete with all required steel section members, welds, bolts, nuts, washers, bracing, connector plates etc to be galvanized</u>					
<u>Steel lightweight floor frame</u>					
6	Steel lightweight frame comprising hollow sections below floors complete with steel tread plate below floors to required and approved thickness	m2	53		
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STRUCTURAL WORKS

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STRUCTURAL WORKS

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Item No	Quantity	Rate	Amount
<u>BILL NO 2</u>			
<u>ROOF COVERINGS</u>			
Notes: 1.Tenderers are advised to study the Prasa Norms, Guidelines and Standards (NGS) for Station Facilities and Part B of the Prasa Specifications before pricing this bill			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Straight cutting</u>			
Descriptions of all roof coverings are deemed to include for all straight cutting			
<u>RAINWATER GOODS</u>			
1	150 x 150 x 6mm eaves gutter	m	17
2	100 x 75mm downpipe to match gutters	m	14
3	Extra over eaves gutter for stopped end	No	6
4	Extra over eaves gutter for bends	No	2
5	Extra over eaves gutter for outlet for 150mm diameter pipe	No	4
6	Extra over rainwater pipe for offset	No	4
7	Rain water shoe	No	4
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ROOF COVERINGS			

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	<u>Sound resistant drywall consisting of stud and track system with 2no x 102 x 35mm drywall studs at recommended centres, friction fitted into head track and floor track with 102mm thick polyester lightweight insulation blanket inserted into cavity of partitioning and clad on both sides with all external angles; complete with corner beads attached and all joints to be covered with fiba tape and finished with 2 layers of approved skim finish to joints and nail holes, applied and lightly sanded down, leaving wall surface prepared for painting, all in accordance with the manufacturer's recommendations.</u>			
4	Drywall partitions 2700mm high	m	12	
	<u>Magnesium oxide board wall panels to be skimmed along joints including fixing screws, nails and ready for paint finishes to manufacturer's instructions</u>			
5	12mm thick wall panels	m2	130	
	<u>Wall insulation to internal side of container walls comprising 135mm thick polyester lightweight blanket insulation manufactured from recycled PET plastics</u>			
6	To walls	m2	130	
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ABT CONTAINERS Bill No. 3 CEILINGS AND PARTITIONS				

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CEILINGS AND PARTITIONS

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Bill No. 3

CEILINGS AND PARTITIONS

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Item No	Quantity	Rate	Amount
<u>BILL NO 4</u>			
<u>CARPENTRY AND JOINERY</u>			
Notes: 1. Tenderers are advised to study the Prasa Norms, Guidelines and Standards (NGS) for Station Facilities and Part B of the Prasa Specifications before pricing this bill			
<u>DOORS, ETC</u>			
<u>NOTE:</u> All ironmongery and finishes to doors are measured elsewhere			
The following door descriptions are to be read in conjunction with the attached door schedule:			
<u>Interior grade flush hollow core single timber door with 3mm thick ply on both sides with two consolidated edges fitted to comply with SABS 545 complete with frame</u>			
1	Door type D01 of overall size 900 x 2120mm high including frame	No	4
<u>Heavy duty interior quality T & G hardwood door fitted to comply with SABS 545 exterior grade complete with frame</u>			
2	Door type D02 of overall size 900 x 2120mm high including frame	No	6
<u>FITTINGS</u>			
<u>Kitchen cupboards in 16mm thick white melamine board including all ironmongery installed complete</u>			
3	1500mm long x 600mm wide x 1200mm high floor mounted kitchen cupboard to receive counter top (measured elsewhere)	No	1
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CARPENTRY AND JOINERY			

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CARPENTRY AND JOINERY

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CARPENTRY AND JOINERY

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Item No	Quantity	Rate	Amount
<u>BILL NO 5</u>			
<u>FLOORING SYSTEMS</u>			
Notes: 1.Tenderers are advised to study the Prasa Norms, Guidelines and Standards (NGS) for Station Facilities and Part B of the Prasa Specifications before pricing this bill			
<u>FLOORING TO ABT CONTAINERS</u>			
<u>Floor screed (to suitable mixing ratio) and troweled to give smooth even surface</u>			
1	25mm thick screed	m2	11
2	60mm thick mortar bed	m2	53
<u>Floor insulation comprising 135mm thick polyester lightweight blanket insulation manufactured from recycled PET plastics</u>			
3	To floors	m2	53
<u>Plywood flooring</u>			
4	Approved treated wooden plywood floors to specialist detail to receive tile finishes (measured elsewhere)	m2	53
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ABT CONTAINERS			
Bill No. 5			
FLOORING SYSTEMS			

Item No		Quantity	Rate	Amount
	<u>BILL NO 6</u>			
	<u>IRONMONGERY</u>			
	Notes:			
	1. Tenderers are advised to study the Prasa Norms, Guidelines and Standards (NGS) for Station Facilities and Part B of the Prasa Specifications before pricing this bill			
	<u>IRONMONGERY</u>			
	<u>Stainless steel cylinder locksets</u>			
1	75mm four lever upright mortice lockset with satin chrome furniture	No	10	
2	Indicator bolt with 'red/green' indicator	No	5	
	<u>Stainless steel lever handles complete with backplate</u>			
3	Grade 304 stainless steel round D lever handle on a long backplate with a profiled cylinder opening fixed to timber doors with matching screws	Pairs	10.0	
	<u>Bathroom Fittings</u>			
4	Satin stainless steel paper towel dispenser with min 600 folded paper towels and cylinder lock, plugged and screwed to the wall with stainless steel screws.	No	5	
5	Satin stainless steel waste disposal bins with capacity of plus minus 40 litres and with a frame inside the dispenser to hold a liner, plugged and screwed to the wall with stainless steel screws	No	5	
6	Satin stainless steel liquid soap dispenser complete with replaceable and refillable 1 litre container, cylinder lock all plugged and screwed to walls with stainless steel screws	No	5	
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	IRONMONGERY			

7	Vandal resistant satin stainless steel 3 tier lockable toilet roll holder with central shaft system and cylinder lock, plugged sand screwed to walls with stainless steel screws	No	5		
8	Satin stainless steel sanitary towel disposal bins with capacity of minimum 10 litres, free standing or wall mounted (plugged and screwed to the wall with stainless steel screws)	No	2		
9	32mm diameter stainless steel cistern back rail in satin polished finish complete with SS fixing screws and plastic wall plugs, installed at 800mm above floor level as per manufacturer's instructions.	No	1		
10	300 x 300 x 300mm x 32mm diameter stainless steel dog-leg side grab rail, without centre flange in satin polished finish complete with SS fixing screws and plastic wall plugs, as per manufacturer's instructions.	No	1		
	<u>Door stoppers</u>				
11	Chrome plated hooded door stopper plugged onto floors	No	10		
	<u>BLINDS</u>				
	<u>Vertical blinds comprising 127mm wide fabric vanes with slimline white powder coated aluminium headtrail complete with top hangers, bottom weights and stabilizing chain, easy fit brackets to be recess mounted into reveals to be supplied and installed according to the manufacturer's recommendation</u>				
12	Blinds to cover window opening of size: 900 x 900mm high	No	3		
13	Blinds to cover window opening of size: 2000 x 1200mm high	No	2		
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IRONMONGERY

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ABT CONTAINERS

Bill No. 6

IRONMONGERY

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Item No	Quantity	Rate	Amount
<u>BILL NO 7</u>			
<u>METALWORK</u>			
<u>WINDOW AND DOOR OPENING</u>			
Rates in this section shall include creation of openings for windows and doors, installation of windows and doors complete with waterproofing sealant and glazing where applicable and paint finishes			
<u>Aluminium windows and doors to remain taped and remain so for duration of contract</u>			
<u>Glazed aluminium windows and doors, complete with subframes, ironmongery, glass, sealing, etc and fixing to container walls</u>			
<u>The following window and door descriptions are to be read in conjunction with the attached window/door schedule</u>			
<u>Create opening and install:</u>			
<u>Aluminium windows with bulletproof glazing</u>			
1	Aluminium window type W01 of size 900 x 900mm high	No 3	
2	Aluminium window type W02 of size 600 x 900mm high	No 6	
3	Aluminium window type W03 of size 2000 x 1200mm high	No 2	
<u>Bullet-resistant anti-bandit door</u>			
4	Door type D02 of overall size 900 x 2120mm high including frame	No 1	
<u>SUNDRIES</u>			
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ABT CONTAINERS Bill No. 7 METAL WORK			

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METAL WORK

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ABT CONTAINERS

Bill No. 7

METAL WORK

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Item No		Quantity	Rate	Amount
	<u>BILL NO 8</u>			
	<u>TILING</u>			
	Notes: 1. Tenderers are advised to study the Prasa Norms, Guidelines and Standards (NGS) for Station Facilities and Part B of the Prasa Specifications before pricing this bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions 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</u>			
	<u>WALL TILING</u>			
	<u>Supply, delivery and fixing of tiles allowing for all adhesives, grouts, labours and the like:</u>			
	<u>Porcelain wall tiles allow a PC sum of R300/m2 for the supply of all materials</u>			
1	On walls	m2	58	
	<u>FLOOR TILING</u>			
	<u>Supply, delivery and fixing of tiles allowing for all adhesives, grouts, labours and the like:</u>			
	<u>Porcelain floor tiles allow a PC sum of R300/m2 for the supply of all materials</u>			
2	On floors	m2	53	
3	Tile skirtings 100mm high	m	65	
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	ABT CONTAINERS			
	Bill No. 8			
	TILING			

Item No		Quantity	Rate	Amount
	<u>BILL NO 9</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	Notes:			
	1. Tenderers are advised to study the Prasa Norms, Guidelines and Standards (NGS) for Station Facilities and Part B of the Prasa Specifications before pricing this bill			
	<u>ABT SANITARY FITTINGS, ETC</u>			
	Supply, delivery and installation of sanitaryware items ; fix accordingly allowing for all sundry plumbing fittings and connections			
1	Vitreous china white cloakroom basin of size 455 x 290mm with one tap hole including integrated overflow and chainstay hole bolted to wall with two 10mm bolts and sealed with silicone sealant where basin meets wall.	No	4	
2	Vitreous china 510 x 405mm disabled lavatory basin to comply with SABS 497 with two tap hole configuration	No	1	
3	Public vandal proof composite polymer toilet of size 390mm x 480mm x 410mm high with a concealed cistern and flush volume 6/3 litres, subject to the pan being installed with a cistern providing an effective 6/3 litre flush volume. Complete with all necessary fittings to manufacturer's specification and applicable SABS standards	No	4	
4	565 x 275 x 310mm white vandal proof composite polymer wall mounted back inlet urinal including 38mm chromium plated domical grating and chromium plated back inlet spreader, flush valve, flush pipe fixed on and including two hanger brackets	No	2	
5	Grade 304 18/10 polished stainless steel single end bowl insert sink size 800 x 400mm wide with ine 340 x 370 x 152mm deep bowl fitted onto kitchen cupboard (measured elsewhere)	No	1	
	Carried to Collection		R	
	ABT CONTAINERS			
	Bill No. 9			
	PLUMBING AND DRAINAGE			

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Section No. 4

Bill No. 9

PLUMBING AND DRAINAGE

COLLECTION

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No**

Amount

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85

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ABT CONTAINERS

Bill No. 9

PLUMBING AND DRAINAGE

R

Item No		Quantity	Rate	Amount
	<u>BILL NO 10</u>			
	<u>PAINTWORK</u>			
	Notes:			
	1. Tenderers are advised to study the Prasa Norms, Guidelines and Standards (NGS) for Station Facilities and Part B of the Prasa Specifications before pricing this bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>DESCRIPTIONS</u>			
	Descriptions of paintwork shall be deemed to include for all cutting in			
	<u>ON PLASTER BOARD</u>			
	<u>One coat universal undercoat and two coats interior quality PVA emulsion paint</u>			
1	Plasterboard ceilings	m2	56	
2	To drywall partitions	m2	65	
3	To walls	m2	130	
	<u>ON METAL SURFACES</u>			
	<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel</u>			
4	To steel section members with a girth exceeding 300mm	m2	6	
5	On door frames	m2	6	
	<u>WOOD SURFACES</u>			
	<u>Prepare surface and apply universal under coat to comply with SABS 681, grade 1 and finish with 2 coats alkyde egg-shell paint</u>			
6	To timber doors	m2	34	
	Carried Forward to Summary of Section No. 4			
	ABT CONTAINERS			
	Bill No. 10			
	PAINTWORK			
			R	

Item No		Quantity	Rate	Amount
	<u>BILL NO 11</u>			
	<u>ELECTRICAL AND MECHANICAL WORK</u>			
	<p><u>Notes:</u></p> <p>1. Tenderers are advised to study the Prasa Norms, Guidelines and Standards (NGS) for Station Facilities and Part B of the Prasa Specifications before pricing this bill</p> <p><u>Electrical Works</u></p> <p><u>NOTE:</u> All electrical works pertaining to the ABT structure are to be priced under this section and the works are to be designed and installed to the electrical engineer's requirements and shall be accompanied by a Certificate of Compliance (COC)</p> <p>The ABT structure is to include all necessary lighting and power to design specifications and to be 'move in ready' with respect to the electrical works.</p> <p>In this section, external lighting includes reticulation and fittings that are affixed to any surface of the ABT structures.</p> <p><u>NOTE:</u> The lighting to the rest of the Station is included elsewhere.</p> <p>All security electrical and electronic works are to be included in this section comprising but not limited to: CCTV installations and Access Control</p> <p>All data and networking reticulation and necessary fittings are to be included in this section</p> <p><u>Mechanical Works</u></p> <p><u>NOTE:</u> All HVAC installations pertaining to the ABT structure are to be included and the works are to be designed and installed to the mechanical engineer's requirements and shall be accompanied by a Certificate of Compliance (COC)</p> <p>HVAC installations are to be installed complete including extraction fittings where necessary</p>			
	Carried to Collection		R	
	ABT CONTAINERS			
	Bill No. 11			
	ELECTRICAL AND MECHANICAL WORK			

Fire protection installations and fittings are deemed to be included in this section according to national building regulations

ELECTRICAL RETICULATION

Internal Electrical Reticulation

1 Small Power, Lighting and Electronic Services

Item

2 Earthing and Lightning Protection

Item

MECHANICAL WORKS

3 HVAC Systems comprising split unit systems to specialist installation

Item

4 Fire protection systems, hydrants and wet services

Item

Carried to Collection

R

ABT CONTAINERS

Bill No. 11

ELECTRICAL AND MECHANICAL WORK

Section No. 4

Bill No. 11

ELECTRICAL AND MECHANICAL WORK

COLLECTION

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ABT CONTAINERS

Bill No. 11

ELECTRICAL AND MECHANICAL WORK

R

Bill No	SECTION SUMMARY - ABT CONTAINERS	Page No	Amount
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2	ROOF COVERINGS	69	
3	CEILINGS AND PARTITIONS	72	
4	CARPENTRY AND JOINERY	75	
5	FLOORING SYSTEMS	76	
6	IRONMONGERY	79	
7	METAL WORK	82	
8	TILING	83	
9	PLUMBING AND DRAINAGE	87	
10	PAINTWORK	88	
11	ELECTRICAL AND MECHANICAL WORK	91	
Carried to Final Summary			
ABT CONTAINERS			

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	PRELIMINARIES AND GENERAL	31	
2	SITE WORKS	53	
3	STATION PLATFORMS	64	
4	ABT CONTAINERS	92	
	Sub Total A		R
	Add a Contingency sum of 4%		R
	Sub Total B		R
	Allow a sum of R72 000.00 for the Community Liaison Officer and all community engagements	Item	72 000.00
	Add Value Added Tax @ 15% of Subtotal 'B'		R
	Carried to Form of Tender		R