

Item No	Quantity	Rate	Amount
<p><b><u>SECTION No. 1: PRELIMINARIES</u></b></p>			
<p><b><u>BILL NO. 1: PRELIMINARIES</u></b></p>			
<p>The agreement is to be the JBCC Principal Building Agreement (Edition 6.2), published by the JBCC®. The 6.1 Edition has the <b>Principal Building Agreement</b> and the <b>Principal Building Agreement: Contract Data</b> and these documents have been incorporated in the Contract Data section of this document. The Bidder is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked. "N/A" signifying "Not Applicable".</p>			
<p><b><u>MEANING OF TERMS "BID / BIDDER"</u></b></p>			
<p>Any reference to the words "Bid" or "Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder".</p>			
<p><b><u>PRICING OF PRELIMINARIES</u></b></p>			
<p>Should Option A, as set out in Section D - Tenderer's Selection in the Contract Data, under clause 26 of <b>Part 2: CONTRACT DATA COMPLETED BY THE CONTRACTOR (PRINCIPAL BUILDING AGREEMENT: CONTRACT DATA) (JBCC Edition 6.1 - March 2014)</b> be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item.</p>			
<p>Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities.</p>			
<p><b>Carried to Collection</b></p>			
<p>Section 1 Bill No. 1 Preliminaries</p>			<p>R</p>

**SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT - (Edition 6.2)**

**INTERPRETATION**

**DEFINITIONS AND INTERPRETATION**

Clause 1.0

1 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

500 000.00

**LAW, REGULATIONS AND NOTICES**

Clause 2.0

2 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**OFFER AND ACCEPTANCE**

Clause 3.0

3 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**ASSIGNMENT AND SESSION**

Clause 4.0

4 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**CONTRACT DOCUMENTS**

5 Clause 5.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**EMPLOYER'S AGENTS**

Clause 6.0

6 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**DESIGN RESPONSIBILITY**

Clause 7.0

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7 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**INSURANCE AND SECURITY**

**WORKS RISK**

Clause 8.0

8 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**INDEMNITIES**

Clause 9.0

9 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**INSURANCES**

Clause 10.0

10 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**SECURITY**

Clause 11.0

11 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**EXECUTION**

**DUTIES OF THE PARTIES**

Clause 12.0

12 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**SETTING OUT**

Clause 13.0

13 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

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**NOMINATED SUBCONTRACTORS**

Clause 14.0

14 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**SELECTED SUBCONTRACTORS**

Clause 15.0

15 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**DIRECT SUBCONTRACTORS**

Clause 16.0

16 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**CONTRACT INSTRUCTIONS**

Clause 17.0

17 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**COMPLETION**

**INTERIM COMPLETION**

Clause 18.0

18 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

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**PRACTICAL COMPLETION**

Contract Period: The period commencing on actual Site Hand Over Date to the contractor and ending on the date of Practical Completion or authorised extensions thereto including all Annual Industrial Holiday Periods, Sundays and Public Holidays.

Clause 19.0

19 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**SECTIONAL COMPLETION**

Clause 20.0

20 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**DEFECTS LIABILITY PERIOD AND FINAL COMPLETION**

Clause 21.0

21 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**LATENT DEFECT'S LIABILITY PERIOD**

Clause 22.0

22 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**REVISION OF THE DATE FOR PRACTICAL COMPLETION**

Clause 23.0

23 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

24 PENALTY FOR LATE OR NON-COMPLETION  
Clause 24.0

Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**PAYMENT**

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**PAYMENT**

Clause 25.0

25 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

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**ADJUSTMENT OF THE CONTRACT VALUE AND FINAL ACCOUNT**

Clause 26.0

26 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**RECOVERY OF EXPENSE AND/OR LOSS**

Clause 27.0

27 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**SUSPENSION AND TERMINATION**

**SUSPENSION BY THE CONTRACTOR**

Clause 28.0

28 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

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**TERMINATION**

Clause 29.0

29 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**DISPUTE RESOLUTION**

Clause 30.0

30 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

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**AGREEMENT**

**AGREEMENT**

Clause

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31 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**CONTRACT DATA**

**SECTION B: PART 1: CONTRACT DATA COMPLETED BY THE EMPLOYER (PRINCIPAL BUILDING AGREEMENT: CONTRACT DATA) (Edition 6.1 March 2014)**

**TENDER INFORMATION**

Project Name

32 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

Works description

33 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

Site description

34 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

Employer

35 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

Principal Agent

36 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

Agents

37 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**CONTRACT DATA**

Law, regulations and notices

38 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

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Contract Documents

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39 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

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Employer's Agents

40 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

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Insurances

41 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

Security

42 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

Duties of the Parties = employer = site

43 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

Nominated subcontractors

44 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

Direct contractors

45 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

Practical Completion / penalty for late completion

46 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

Practical Completion

47 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

Payment

48 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

Dispute Resolution

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49 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_ Item

**Changes made to JBCC documentation**

Changes to JBCC document

50 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_ Item

**SECTION B: PART 2: CONTRACT DATA COMPLETED BY THE CONTRACTOR (PRINCIPAL BUILDING AGREEMENT: CONTRACT DATA) (JBCC Edition 6.1 March 2014)**

**TENDERER'S SELECTION**

Securities

51 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_ Item

Contractor's holiday period during the construction period

52 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_ Item

**Payment and adjustment of Preliminaries**

Payment of Preliminaries

53 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_ Item

Adjustment of Preliminaries

54 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_ Item

Contract Value adjusted according to CPAP Indices Application Manual for use with P0151 indices published by Statistics South Africa, dated 1/1/2013

55 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_ Item

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**SECTION C: SPECIFIC PRELIMINARIES**

(Section C contains Specific Preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item)

**Contract documents**

The drawings issued with these Bid documents do not comprise the complete set but serves as a guide only for Bidding purposes and for indicating the scope of works to enable the Bidder to acquaint him with the nature and extent of the works and the manner in which they are to be executed.

Should any part of the drawings not be clearly legible to the Bidder he shall, before submitting his Bid, obtain clarification in writing from the principal agent.

56 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**General Preambles**

The Document Preambles will be the "ASAQS Model Preambles for Trades – 2008" and is obtainable from the various Regional Office's of the Department of Public Works and shall be read in conjunction with the Bills of Quantities and be referred to for the full descriptions of work to be done and materials to be used.

57 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**Trade Names**

Wherever a Trade Name for any product has been described in the Bills of Quantities the Bidder's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of Bids.

If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been Bidded for.

58 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

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**Imported Material and Equipment**

Where imported items are listed in the Bid documents, the Bidder shall provide all the information called for, failing which the price of any such item, material or equipment shall be excluded from currency fluctuations. (Refer to T2.14 - Schedule of Imported Materials and Equipment)

Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provision (CPAP) if applicable.

59 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**Existing premises occupied**

Refer to Scope of works Part C3 of this Bid Document for information on the occupation of existing buildings.

60 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**Inaccurate and defective work executed under a previous contract**

The contractor shall, after taking possession of the site and before commencing the work, check all levels, liners, profiles and the like and satisfy himself as to the dimensional accuracy of all work executed under the previous contract which may affect his work.

Should any inaccurate or defective work be found, the contractor shall immediately notify the principal agent in writing requesting his instructions with regard thereto and afford every facility to those rectifying such inaccurate or defective work.

61 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**Viewing the Site in security areas**

If the site is situated in a security area and the Bidder must arrange with the Authorities to obtain permission to enter the site for Bidding purposes.

62 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

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**Commencement of Works in security areas**

If the works falls within a security area, the contractor must arrange with the Authorities and give the necessary notices 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.

63 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**Entrance permits to security areas**

If the works fall within a security 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 control of the Authority.

64 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**Security check of personnel**

The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified.

In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works.

65 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**Prohibition on taking of photographs**

In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking photographs, except when authorised thereto by or on behalf of the Minister.

The same prohibition is also applicable to all Correctional Institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959.

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66 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

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**C12.6 COMMUNITY LIAISON OFFICER (CLO)**

**UTILISATION OF A COMMUNITY LIAISON OFFICER**

A CLO will be identified by the local structures of the ward areas and appointed following fair and transparent interviewing process, to be conducted in the presence of local structures and the contractor representative, in order to assist the Contractor in the procurement of any local labour, etc. required for this project. The Contractor is to liaise with the CLO and afford him any assistance needed in ensuring sound working relations with the local community.

Key Responsibilities of the CLO are envisaged to include and not necessary be limited to:

1. Assisting local leadership in conducting skills and resources audit which facilitates sourcing labour from within the ward or targeted areas for employment, as required by contractor.
2. Assisting in sourcing labour-only domestic sub-contractors and the procurement of materials from local resources, as required by the contractor.
3. Assisting the contractor by identifying areas of potential conflict and or threats to the project or to stakeholders in the project and recommend appropriate action to the contractor.
4. Assisting contractor and stakeholders in the project in the resolution of any conflict which may arise.
5. Establishing and ensuring that sufficient and open communication channels between the contractor and the work force are maintained.
6. Establish and ensuring that efficient and open communication channels between the contractor and the community are maintained
7. Identifying and reporting to the Contractor regarding issues where communication between stakeholder is necessary, recommend courses of action and facilitate such communications

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8. Assisting the Contractor and the work force in the establishment of grievance procedures and necessary recommendation to the Contractor regarding the grievances and solution thereto.

9. Attending to site meetings and project implementation meetings as required by the Contractor and prepare periodic reports as may be required by the Contractor from time to time.

10. Attending to such other duties which are consistent with the functions of a CLO, as may be required by the Contractor from time to time.

A budgetary allowance has been included under the 'Budgetary Allowance' of these Bills of Quantities.

67 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

N/A

**HIV/AIDS Awareness**

It is required of the contractor to thoroughly study the HIV/AIDS Specification (HIV 1 to HIV 4) of the Department of Public Works, which must be read together with and is deemed to be incorporated under this section of the Bills of Quantities. Provision for pricing of HIV/AIDS awareness is made under C13.1 to C13.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained.

The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31 of Section 1: Preliminaries (Section A) or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delayed payment.

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**The contractor's attention is drawn to paragraph 5.3 of C3.2 Specification For HIV/Aids Awareness - A penalty of 0.05% of Contract Sum for non-compliance can be levied.**

68 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**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.

69 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**C13.2 Awareness Workshop**

Selection and appointment of a Competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Planner 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.

70 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**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.

71 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**C13.4 Access to condoms**

Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenish 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.

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72 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_ Item

**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, all in accordance with the HIV/AIDS Specification.

73 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_ Item

**Occupational Health and Safety Act No. 85 of 2014**

Tenderers are to allow for costs in providing a project specific ' Construction Phase Safety, Health and Environmental Plan' in accordance with "Section 2 - Specification Data associated with SANS 1921-1:2004"

74 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_ Item

**Notice Board, site office, etc.**

Bidders are to allow for the provision and removal of a project notice board and a site office in accordance with the Principal Agent's requirements (See clause 12.2.18 of PBA)

75 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_ Item

**Contract Price Adjustment Provisions (CPAP)**

Tenderers are to note that this is a Lump Sum contract, hence the contract will not be subject to Contract Price Adjustment Provisions (CPAP). Tenderers are to factor in escalation in their rates.

76 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_ Item

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**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' instruction after consultation with the manufacturer's authorised representative.

77 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**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 Engineer/principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.

78 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**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 Engineer/principal agent and the structural engineer for their records.

79 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**Site Instructions**

Site instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor.

80 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**Labour Records**

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 sub-contractors on the works each day.

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81	<p>Fixed: _____ Value related: _____ Time related: _____</p> <p>Note: In the event that the contractor fails to satisfy the requirements of this specification, the Employer may apply any of the sanctions provided in the contract. Sanctions may include the application of a financial penalty of 0.0175% of the Contract Sum per calendar day of which the required report has not been submitted.</p> <p><b><u>Plant Record</u></b></p> <p>At the end of each 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.</p>	Item		
82	<p>Fixed: _____ Value related: _____ Time related: _____</p> <p><b><u>Non Cession of monies</u></b></p> <p>The contractor shall not cede nor assign his rights or claims to any monies due or to become due under this contract.</p>	Item		
83	<p>Fixed: _____ Value related: _____ Time related: _____</p> <p><b><u>Sectional Completion</u></b></p> <p>When it is required that the contract be executed in sections or portions, the tenderer shall allow for all costs in this regard as no claim for additional costs will be entertained.</p>	Item		
84	<p>Fixed: _____ Value related: _____ Time related: _____</p> <p><b><u>Import permits and duties</u></b></p> <p>The responsibility for obtaining the necessary import permits shall rest with the successful Tenderer. No foreign exchange will be arranged or provided by the Administration.</p> <p>Tenderers are to allow in their tenders and pay the ordinary levy imposed on imported items in terms of item 196.10 of Part 8 of Schedule No. 1 of the Customs and Excise Act, 1964 with effect from 1 October 1989.</p>	Item		
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**Local Labour**

It is a general requirement of this contract that persons normally resident in the locality of the works (local labour) be given preference for employment on the contract. Provided, however, that should adequate and appropriate labour not be available within the locality, other may be employed subject to satisfactory proof being provided that every reasonable endeavour has been made to employ local labour. The Contractor shall identify the local community leaders with the purpose of negotiating with them regarding the utilization of local labour in the construction process. In this regard, the Contractor shall furthermore give preference, wherever possible to the employment of single heads of households, women and youth. The Contractor shall, in general, maximize the involvement of the local community.

86 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

Item

**Management of Water**

Water for Construction purposes must be obtained from alternative water sources (i.e. supply other than water that is produced and distributed by a regulated water service authority from a licenced water treatment works for human consumption), eg dams, rivers, boreholes, springs, rainwater harvesting, recycled sewerage water, etc. The alternative water source shall not be of an inferior quality / standard than that required for construction purposes. The client reserves the right through his agents to test such supplies or request certificates confirming the grade and nature of the water supply. Relevant knowledge of the respective area will be an advantage.

87 Fixed: \_\_\_\_\_ Value related: \_\_\_\_\_ Time related: \_\_\_\_\_

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**SUMMARY OF CATEGORIES**

Category : Fixed (F): R.....

Category : Value (V): R.....

Category : Time (T): R.....

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Preliminaries

Item No	Quantity	Rate	Amount
<p><b><u>SECTION No. 2: MAIN BUILDING</u></b></p>			
<p><b><u>BILL No. 1 : EARTHWORKS (PROVISIONAL)</u></b></p>			
<p><b><u>MODEL PREAMBLES</u></b></p>			
<p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p>			
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p><u>Proprietary products in descriptions:</u></p>			
<p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p>			
<p><u>Nature of material to be excavated:</u></p>			
<p>The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock".</p>			
<p><u>Carting away of excavated material:</u></p>			
<p>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.</p>			
<p><u>Dewatering of excavations:</u></p>			
<p>The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water</p>			
<p><b>Carried to Collection</b></p>			
<p>Section 2 Bill No. 1 Earthworks (Provisional)</p>			R

Density testing on filling:

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.

Filling and layer work materials

References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter

Imported fill:

"Filling and bedding to trenches etc. to be in compliance with SABS 1200 DB and LB respectively"

**EXCAVATION, FILLING, ETC OTHER THAN BULK**

**Excavation in earth platforms not exceeding 2m deep**

1	Trenches	m3	212	98.00	20 776.00
2	Holes	m3	3	98.00	294.00
<b><u>Extra over trench and hole excavations in earth for excavation in:</u></b>					
3	Soft rock	m3	22	150.00	3 300.00
4	Hard rock	m3	11	650.00	7 150.00
<b><u>Extra over all excavations for carting away</u></b>					
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	99	90.00	8 910.00

**Carried to Collection**

R 40 430.00

Section 2  
Bill No. 1  
Earthworks (Provisional)

<b><u>Risk of collapse of excavations</u></b>					
6	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	264	20.00	5 280.00
<b><u>Keeping excavations free of water</u></b>					
7	Keeping excavations free from mud and all water including subterranean sources.		Item		2 000.00
<b><u>EARTH FILLING, ETC.</u></b>					
<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site including haulage approximately 200m from perimeter of excavations or stock piles and compacted in layers not exceeding 150mm thick to 95% Mod AASHTO density</u></b>					
8	Backfilling to trenches, holes, etc.	m3	117	60.00	7 020.00
9	Under floors, steps, pavings, etc.	m3	109	60.00	6 540.00
<b><u>Filling of hardcore supplied by the contractor compacted in layers not exceeding 150mm thick to 98% Mod AASHTO density</u></b>					
10	Under floors, steps, pavings, etc	m3	82	200.00	16 400.00
<b><u>Filling of G5 material supplied by the contractor compacted in layers not exceeding 150mm thick to 98% Mod AASHTO density</u></b>					
11	Under floors, steps, pavings, etc.	m3	82	350.00	28 700.00
<b><u>Coarse river sand filling, 50mm thick, supplied by the contractor</u></b>					
12	Under floors, etc	m3	28	400.00	11 200.00
<b><u>Compaction of surfaces</u></b>					
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density.	m2	545	11.00	5 995.00
<b>Carried to Collection</b>				R	<b>83 135.00</b>
Section 2 Bill No. 1 Earthworks (Provisional)					

<b><u>Prescribed density tests on filling</u></b>					
14	Allow for compaction tests by an approved laboratory to determine density of filling material.	No	11	300.00	3 300.00
<b><u>SOIL POISONING</u></b>					
<b><u>Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years, all in accordance with SANS 5859:</u></b>					
15	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming.	m2	545	18.00	9 810.00
16	To bottoms and sides of trenches, holes, etc.	m2	712	18.00	12 816.00
<b>Carried to Collection</b>				R	<b>25 926.00</b>
Section 2					
Bill No. 1					
Earthworks (Provisional)					

Section 2

Bill No. 1

Earthworks (Provisional)

**COLLECTION**

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**Amount**

22

23

24

25

40 430.00

83 135.00

25 926.00

**Carried Forward to Summary of Section No. 2**

R

149 491.00

Section 2

Bill No. 1

Earthworks (Provisional)

Item No	Quantity	Rate	Amount
<p><b><u>SECTION No. 2: MAIN BUILDING</u></b></p>			
<p><b><u>BILL No. 2 : CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u></b></p>			
<p><b><u>MODEL PREAMBLES</u></b></p>			
<p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p>			
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p><u>Proprietary products in descriptions:</u></p>			
<p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p>			
<p><u>Cost of tests:</u></p>			
<p>The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately).</p>			
<p><u>Formwork:</u></p>			
<p>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.</p>			
<p>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.</p>			
<p><b>Carried to Collection</b></p>			
<p>Section 2 Bill No. 2 Concrete, Formwork and Reinforcement (Provisional)</p>			R

Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm 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. 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.

**CPAP ADJUSTMENT**

Unless otherwise stated all the following items shall be deemed to fall into Work Group 110 for Contract Price Adjustment Provisions

**UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES**

**10Mpa/19mm concrete**

1	Surface blinding under footings and bases	m3	9	1 700.00	15 300.00
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**REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES**

**25MPa/19mm concrete**

2	Strip footings	m3	53	2 300.00	121 900.00
3	Bases	m3	2	2 300.00	4 600.00
4	Surface beds cast in panels on waterproofing	m3	55	2 300.00	126 500.00
5	Ramps	m3	7	2 300.00	16 100.00

**REINFORCED CONCRETE CAST ON/IN FORMWORK**

**30MPa/19mm concrete**

6	Ring beam	m3	33	2 500.00	82 500.00
7	Stub Columns (provisional)	m3	1	2 500.00	2 500.00
8	Columns	m3	2	2 500.00	5 000.00

**Carried to Collection**

R **374 400.00**

Section 2  
 Bill No. 2  
 Concrete, Formwork and Reinforcement (Provisional)

**FINISHING TOP SURFACE OF CONCRETE**

**Finishing top surfaces of concrete smooth with a wood float**

9	Surface beds, slabs, etc	m2	545	12.00	6 540.00
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**TEST CUBES**

10	Making and testing of 150 x 150 x 150mm concrete strength test cubes (Provisional)	No	19	300.00	5 700.00
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**CPAP ADJUSTMENT**

Unless otherwise stated all the following items shall be deemed to fall into Work Group 111 for Contract Price Adjustment Provisions

**ROUGH FORMWORK**

**Rough formwork to sides**

11	Rectangular stub columns	m2	5	160.00	800.00
12	Rectangular columns	m2	16	160.00	2 560.00
13	Ring beam circular on plan exceeding 1m radius	m2	156	220.00	34 320.00
14	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	10	60.00	600.00

**Rough formwork to soffits**

15	Beams	m2	4	300.00	1 200.00
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**MOVEMENT JOINTS ETC**

**Expansion joints with Jointex joint filler by 'Sondor' or Similar approved, between vertical concrete or brick surfaces and fixed to wall prior to casting:**

16	10mm Joints not exceeding 300mm high (Provisional).	m	174	45.00	7 830.00
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**Saw cut joints (Provisional)**

17	3 x 45mm Saw cut joints in top of concrete with the top 20mm increased to 10mm wide	m	55	15.00	825.00
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**Carried to Collection**

R **60 375.00**

Section 2  
 Bill No. 2  
 Concrete, Formwork and Reinforcement (Provisional)

**CPAP ADJUSTMENT**

Unless otherwise stated all the following items shall be deemed to fall into Work Group 114 for Contract Price Adjustment Provisions

**REINFORCEMENT (PROVISIONAL)**

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

18	8 to 40mm Diameter bars	t	7.660	15 000.00	114 900.00
<b><u>Fabric reinforcement:</u></b>					
19	Ref. 245 fabric reinforcement in concrete surface beds, slabs, etc	m2	545	60.00	32 700.00

**Carried to Collection**

R 147 600.00

Section 2  
 Bill No. 2  
 Concrete, Formwork and Reinforcement (Provisional)

Section 2

Bill No. 2

Concrete, Formwork and Reinforcement (Provisional)

**COLLECTION**

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374 400.00

60 375.00

147 600.00

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R

582 375.00

Section 2

Bill No. 2

Concrete, Formwork and Reinforcement (Provisional)

Item No	Quantity	Rate	Amount
<p><b><u>SECTION No. 2: MAIN BUILDING</u></b></p>			
<p><b><u>BILL No. 3 : MASONRY</u></b></p>			
<p><b><u>MODEL PREAMBLES</u></b></p>			
<p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p>			
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p><b><u>BRICKWORK</u></b></p>			
<p><b><u>(CPAP WORK GROUP NO. 116 UNLESS OTHERWISE STATED)</u></b></p>			
<p><b><u>Sizes in descriptions</u></b></p>			
<p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p>			
<p><b><u>Bricks</u></b></p>			
<p>Clay &amp; concrete bricks are to comply with N.H.B.R.C Part 2, Section 3</p>			
<p><b><u>Hollow walls etc</u></b></p>			
<p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.</p>			
<p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixéal" bitumen emulsion waterproofing coating.</p>			
<p><b><u>Pointing</u></b></p>			
<p>All pointing of exposed joints to be concave</p>			
<p><b>Carried to Collection</b></p>			
<p>Section 2 Bill No. 3 Masonry</p>			R

**Samples**

Samples of all masonry building units, except those of walls described as "loadbearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "loadbearing" shall consist of 30 units from every 30 000 units delivered to site

**BLOCKWORK**

**Concrete masonry units**

Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7 MPa

**Wall ties for blockwork**

Wall ties shall be polypropylene "Permaties" complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other

**Blockwork**

Blockwork shall comply with SABS 0145 "Concrete Masonry Construction"

Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole

**Standard complementary blocks**

Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary

**BRICKWORK IN FOUNDATIONS  
(PROVISIONAL)**

**Carried to Collection**

R

Section 2  
Bill No. 3  
Masonry

**Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:**

1	Half brick walls	m2	39	280.00	10 920.00
2	One brick walls	m2	44	580.00	25 520.00
3	One brick walls circular on plan	m2	182	600.00	109 200.00

**BRICKWORK IN SUPERSTRUCTURE**

**Brickwork of NFP bricks in Class II mortar:**

4	Half brick walls	m2	83	280.00	23 240.00
5	One brick walls	m2	98	580.00	56 840.00
6	One brick walls circular on plan	m2	199	600.00	119 400.00
7	One brick walls in beamfilling	m2	42	650.00	27 300.00

**BRICKWORK SUNDRIES**

**Brickwork reinforcement**

8	110mm Wide reinforcement built in horizontally	m	486	3.00	1 458.00
9	Ditto, but in foundations (Provisional).	m	969	3.00	2 907.00
10	220mm Wide reinforcement built in horizontally	m	1 161	3.00	3 483.00
11	Ditto, but in foundations (Provisional).	m	2 642	3.00	7 926.00

**Prestressed fabricated concrete lintels including necessary temporary supports**

12	150 x 75mm Lintels in lengths not exceeding 3m	m	46	70.00	3 220.00
13	150 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	5	80.00	400.00

**Cramps, ties, etc:**

14	30 x 2mm Galvanized roof tie 1500mm long with one end fixed to timber and other built into brickwork or concrete.	No	198	15.00	2 970.00
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**Air bricks etc:**

15	229 x 152mm terracotta clay vermin proof air brick (provisional)	No	20	100.00	2 000.00
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**Carried to Collection**

R **396 784.00**

Section 2  
Bill No. 3  
Masonry

Section 2

Bill No. 3

Masonry

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396 784.00

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396 784.00

Section 2  
Bill No. 3  
Masonry

Item No	<b><u>SECTION No. 2: MAIN BUILDING</u></b>	Quantity	Rate	Amount	
	<b><u>BILL No. 4 : WATERPROOFING</u></b>				
	<b><u>MODEL PREAMBLES</u></b>				
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates				
	<b><u>CPAP ADJUSTMENT</u></b>				
	Unless otherwise stated all the following items shall be deemed to fall into Work Group 120 for Contract Price Adjustment Provisions				
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
	<u>Proprietary products in descriptions:</u>				
	Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.				
	<u>Waterproofing</u>				
	Waterproofing of roofs, basements, etc. shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc. with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs				
	<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>				
	<b><u>One layer of 350 micron 'USB GREEN' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':</u></b>				
1	Under surface beds.	m2	592	5.00	2 960.00
	<b><u>One layer of 350 micron embossed dampcourse waterproof sheeting below walls, sills, etc:</u></b>				
2	Below walls, sills, etc.	m2	49	60.00	2 940.00
	<b>Carried to Collection</b>			R	5 900.00
	Section 2 Bill No. 4 Waterproofing				

**SEALING STRIPS, JOINT SEALANTS, ETC**

**Polyurethane sealing compound including backing cord, bond breaker, primer, etc**

3	In 10 x 10mm expansion joints in floors or walls including raking out expansion joint filler as necessary (Provisional).	m	174	24.00	4 176.00
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**Clear Neutral silicone sealant:**

**"Polymastic" non hardening waterproofing compound in pointing all round frames at junction with brickwork or concrete and leave perfectly watertight**

4	Aluminium window frames	m	136.00	20.00	2 720.00
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**Carried to Collection**

R 6 896.00

Section 2  
Bill No. 4  
Waterproofing

Section 2

Bill No. 4

Waterproofing

**COLLECTION**

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5 900.00

37

6 896.00

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12 796.00

Section 2  
Bill No. 4  
Waterproofing

Item No	Quantity	Rate	Amount
<p><b><u>SECTION No. 2: MAIN BUILDING</u></b></p>			
<p><b><u>BILL No. 5 : ROOF COVERINGS</u></b></p>			
<p><b><u>MODEL PREAMBLES</u></b></p>			
<p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p>			
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p><b><u>Safety</u></b></p>			
<p>The contractor shall exercise special care when handling coverings, particularly in windy conditions. Should work be interrupted for any reason, all loose coverings and incomplete sections must be adequately secured against possible movement by wind and gravity</p>			
<p><b><u>Handling and Storage</u></b></p>			
<p>The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting coverings through all stages of construction</p>			
<p><b>Carried to Collection</b></p>			
<p>Section 2 Bill No. 5 Roof Coverings Etc.</p>			R

**Inspection Prior to Installation or Erection**

Before commencing with installation, the contractor shall verify that the following items have been checked and accepted:

- a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted
- b. Purlins and coverings rails are at the correct spacing and are within the specified tolerances
- c. The corners of the roof are square and the wall framework is perpendicular or as specified
- d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework
- e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square
- f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or so dealt with that direct contact with the sheeting is avoided
- g. The contact faces between the purlins or the girts and the cladding are in the same plane. Should the alignment be inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding

**Protrusion through Sheeted Surfaces**

Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugation

**Cleaning of Roofs, etc**

All debris, etc arising from the fixing of the cladding shall be removed from the coverings as the fixing progresses. In addition, off-cuts of insulation, surplus fasteners and sealants, mandrels from pop rivets, off-cuts of flashings and coverings, surplus flashing, food packaging, cartons, bottles, cans, etc shall not be left on the roof or in the gutters. Care shall be taken to ensure that no such material enters, blocks or partially impedes the flow of water into the outlets, downpipes, etc

**ROOF COVERING**

**Carried to Collection**

R

Section 2  
Bill No. 5  
Roof Coverings Etc.

**THATCH**

**200mm Thick thatch of hand cut grass of the hyparrhenia other approved species in lengths varying from 760 to 1020mm laid in bundles of suitable size, compacted to a minimum density of 30kg/m<sup>1/2</sup>/150 mm thickness and fixed by means of suitable fixing rods interlaced through and over the bundles at not exceeding 600mm centres and secured with tarred twine to and including eucalyptus battens CCA treated in accordance with SANS 457-2, varying in diameter from 20 to 40mm, spaced at maximum 300mm centres generally and at closer centres nearer to eaves, including a fire-retardant underlays of multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 272g/m<sup>2</sup> and a Class I fire rating in accordance with SANS 0177-3 including a cement reinforced ridge cap on expanded metal secured to purlins with galvanised wire to Engineer's details.**  
**NB: TR1 & TR2 Certification to be provided.**

1	Covering to general roof slopes (Main building approx. 675m2 measured flat) including a spreadlayer to exposed soffit	Item	450 500.00
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**Carried to Collection**

**R 450 500.00**

Section 2  
 Bill No. 5  
 Roof Coverings Etc.

Section 2

Bill No. 5

Roof Coverings Etc.

**COLLECTION**

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450 500.00

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450 500.00

Section 2

Bill No. 5

Roof Coverings Etc.

Item No	Quantity	Rate	Amount
<p><b><u>SECTION No. 2: MAIN BUILDING</u></b></p>			
<p><b><u>BILL No. 6 : CARPENTRY &amp; JOINERY</u></b></p>			
<p><b><u>MODEL PREAMBLES</u></b></p>			
<p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p>			
<p><b><u>CARPENTRY AND JOINERY</u></b></p>			
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p><b><u>ROOFS ETC</u></b></p>			
<p><u>MONOPLANAR PREFABRICATED METAL CONNECTED TIMBER ROOF TRUSSES</u></p>			
<p>All trusses to be fabricated in a factory by a truss fabricator who holds a current Certificate of Competence awarded by the Institute for Timber Construction</p>			
<p>TR1 &amp; TR2 Certificates are to be issued for each Block before occupation may take place</p>			
<p><u>PREFABRICATED ROOF TRUSSES HAVING A PITCH NOT EXCEEDING 25 DEGREES</u></p>			
<p>NOTE: All timber roof trusses including nail-plated trusses and bolted trusses with lapped members must comply with SANS 0243 : THE DESIGN, MANUFACTURE AND ERECTION OF TIMBER TRUSSES</p>			
<p>Prices for roof trusses are to include for all temporary bracing and supports and for all necessary top and bottom chord bracing, wind bracing and runners where required and TR1 and TR2 Certificates</p>			
<p><u>TIMBER</u></p>			
<p>Timber for trusses to be South African softwood structural timber and shall be at least of grade 4 and in accordance with SANS Specification No.'s 563 or 1245 or laminated timber in accordance with SANS 1460</p>			
<p><b>Carried to Collection</b></p>			
<p>Section 2 Bill No. 6 Carpentry and Joinery</p>			
			R

METAL CONNECTOR PLATES

Metal truss connector plates shall be made from galvanised steel of at least 1mm nominal thickness, with a minimum yield strength of 250MPa and a minimum ultimate tensile strength of 330MPa. The corrosion resisting coating shall be 0,275Kg/m<sup>2</sup> commercial class hot dipped galvanising

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

BOLTS

Bolts shall be to BS 4190 or SANS 135 with appropriate washers. (See below)

WASHERS

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

WASHER DIMENSIONS

Bolts Size	Width (mm)	Thickness
up to M8	25	2,5
up to M12	36	4,0
up to M20	60	5,0

SHEAR PLATES, TOOTH CONNECTORS AND SPLIT RINGS

These shall be as specified in BS 1579 and installed in accordance with the CSIR Publication : HOUT 468, "The Design, Manufacture and Erection of Timber Trusses".

NAILS

These shall be in accordance with SANS 820 : 1974

TRUSS CONSTRUCTION

The trusses shall be constructed to ensure the correct profile, overhangs and cambers

All joints are to be close fitting butt joints made by precision pressing of the metal connector plates into each side of the joint

**Carried to Collection**

Section 2  
 Bill No. 6  
 Carpentry and Joinery

R

TRUSS DESIGN

All trusses shall be designed by a registered Professional Engineer employed by the Contractor in accordance with the SANS Code of Practice for the Design of Timber Structures SANS 0163 and the Code of Practice for General Procedures and Loadings SANS 0160

TRUSS SPACING

The truss centres shall be less than or equal to that described in the Bills for each respective truss type

DRAWINGS

*Prints shall be provided to the consulting engineer/ architect for approval. These drawings shall be signed by a Professional Engineer*

The following minimum information shall be supplied:

- \* Details of the roof system with the positions of all trusses and beams clearly indicated
- \* Bracing details
- \* All truss details, including valley trusses where applicable, with the following clearly detailed:-
  - All member sizes and grades
  - Connector plate sizes for all truss joints. Code numbers are deemed sufficient
- \* All connection and hold down details between trusses, girders, beams and supports
- \* The type of roof covering, ceiling and any other loads taken into account in the design

The dimensions in the descriptions of trusses are nominal and verification measurements are to be obtained from site before design or fabrication commences, and must be designed in accordance with the environmental conditions of the area

GENERAL

The following schedule of prices includes all timber of the required grade and type shown on the designs, all cutting and waste, cutting to exact length and end angles necessary to manufacture the respective truss types, the supply of all connector plates, fabrication of the trusses, checking the completed truss for quality, as well as loading, transporting to the site and offloading

The trusses must be suitable stored and protected on site as directed by the Secretary or his Representative

**Carried to Collection**

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Section 2  
 Bill No. 6  
 Carpentry and Joinery

ERECTION

The 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" published by the Institute for Timber Construction and the Council for Scientific and Industrial Research of as detailed by the designer of the SANS Code of Practice: "The Design, Manufacture and Erection of Timber Roof Trusses"

TRUSS LOADING

The trusses shall be designed for:

- \* Roof Cover: 0,55mm Metal roof sheeting
- \* Max Purlin centres: 900mm
- \* Ceilings: Plasterboard ceilings
- \* Overhang: Min 600mm

**Carried to Collection**

R

Section 2  
Bill No. 6  
Carpentry and Joinery

TRUSSES

- a. All the roof trusses to be at average 1 177mm centres and constructed for approximable 25deg pitch unless otherwise stated
- b. All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take corrugated roof covering, purlins and fibre cement or plasterboard ceilings with brandering. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanized metal spiked connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions
- c. Unless otherwise described all rafter feet are to extend 600mm beyond the length of the tie beam, with ends twice splay cut
- d. Upon completion of the contract the Registered Professional Engineer must issue to the Principal Agent a certificate to the effect that the roof has been erected in accordance with his approved design, under his supervision and that the entire roof is structurally stable. The lump sum price of the roof trusses and purlins or battens (bottom purlin or tilting fillet to be wrought) shall include for the design and supervision by a Registered / Professional Engineer and for all necessary runners, overhangs wrought all round and trimmed and splay cut as required, braces, hoisting and fixing, etc.,but shall exclude fixing brackets and hurricane clips, wall plates, fascia, barge boards, roof coverings, purlins, etc. which are all separately measured
- e. The tenderer's attention is drawn to the fact that the description of the trusses only represents the overall size (fascia to fascia) and not the required design
- f. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR
- g. Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, etc. and for any temporary bracing

**Carried to Collection**

Section 2  
 Bill No. 6  
 Carpentry and Joinery

R

**CPAP ADJUSTMENT**

Unless otherwise stated all the following items shall be deemed to fall into Work Group 126 for Contract Price Adjustment Provisions

**SUPPLEMENTARY PREAMBLES**

Fixing

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete

Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere

Particle board

Particle board shall comply with the following specifications:

- a) SABS 1300 Particle board: exterior and flooring type
- b) SABS 1301 Particle board: interior type

Joinery

Descriptions of frames shall be deemed to include frames, transoms, rails, etc.

Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts

Decorative thermosetting plastic laminate covering

Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish

Descriptions

Descriptions of expansion bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete

**ROOFS, ETC**

**Prefabricated pitched timber roof construction**

**Carried to Collection**

Section 2  
Bill No. 6  
Carpentry and Joinery

R

Prior to the erection of all the roof trusses the consulting engineer shall certify that he has received such working drawings and construction detail designs from the professional engineer employed by the contractor and that he has considered same and given permission to proceed with the fabrication of the trusses (TR1 certificate issued by Contractor's Engineer) and then before the roof covering commences the completed structure shall be inspected and certified as stable by the professional engineer employed by the contractor to ensure that the manufacture of the trusses and erection details have been complied with to his satisfaction (TR2 certificate issued by Contractor's Engineer)

1	Design, supply and install roof truss system complete with wallplate, purlins, bracings, gangboards etc. in accordance with the Standard Building Regulations to suit roof area (approximately 675m <sup>2</sup> on flat floor area). Refer to the architect's/engineer's drawings.		Item		350 000.00
<b><u>WOOD PRESERVATIVE</u></b>					
2	Two coats creosote on sawn timbers (Provisional)	m2	30	30.00	900.00
<b><u>FRAMES ETC</u></b>					
<b><u>Wrought Meranti</u></b>					
3	75 x 100mm Rebated frames plugged	m	102	135.00	13 770.00

**Carried to Collection**

R 364 670.00

Section 2  
Bill No. 6  
Carpentry and Joinery

**DOORS, ETC**

**Exterior quality Solid Core hardwood Flush panel door with veneer suitable for painting on both sides, edged with hardwood strips all around:**

4	Door size 44 x 813 x 2032mm high	No	6	2 050.00	12 300.00
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**Solid Core hardwood Flush panel door with veneer suitable for painting on both sides, edged with hardwood strips all around:**

5	Door size 44 x 813 x 2032mm high	No	17	2 050.00	34 850.00
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**FITTINGS**

**Fittings Budgetary Allowances**

6	Allow for an amount of R 50 000.00 (Fifty Thousand Rands) for additional Fittings including Cupboards, Countertops, Ironmongery including Lockers, Signs, Name Plates etc. fitted complete.		Item		50 000.00
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7	Allow for attendance on the above.		Item		7 500.00
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8	Allow for profit on the above.		Item		15 000.00
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**Carried to Collection**

R	119 650.00
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Section 2  
 Bill No. 6  
 Carpentry and Joinery

Section 2

Bill No. 6

Carpentry and Joinery

**COLLECTION**

Total Brought Forward from Page No.

**Page  
No**

**Amount**

43

44

45

46

47

48

49

50

364 670.00

119 650.00

**Carried Forward to Summary of Section No. 2**

R

484 320.00

Section 2

Bill No. 6

Carpentry and Joinery

Item No	<b><u>SECTION No. 2: MAIN BUILDING</u></b>	Quantity	Rate	Amount
	<b><u>BILL No. 7 : IRONMONGERY (PROVISIONAL)</u></b>			
	<b><u>MODEL PREAMBLES</u></b>			
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Keys/Locks</u></b>			
	Each lock is to be distinctly numbered with consecutive numbers and each key is to be stamped with the corresponding number to the lock that it controls. All locks are to have two keys			
	<b><u>Trade Names</u></b>			
	Where trade names are specified other ironmongery approved by the Principal Agent may be used			
	<b><u>Fixing</u></b>			
	Fixing of ironmongery is deemed to be fixed to timber unless otherwise described			
	<b><u>IRONMONGERY</u></b>			
	<b><u>(CPAP WORK GROUP NO. 132 UNLESS OTHERWISE STATED)</u></b>			
	<b><u>CATCHES, CABIN HOOKS, ETC.</u></b>			
	<u>"Union" or similar approved</u>			
1	"ARC1182SS" adjustable roller catches	No	20	250.00
	<b><u>LOCKS</u></b>			
	<b>Carried to Collection</b>			R 5 000.00
	Section 2 Bill No. 7 Ironmongery (Provisional)			



**KWAXOLO CAVES PRECINCT DEVELOPMENT - PHASE 1B**

14	32mm SR2 stainless steel rear grab rail around cistern, plugged	No	4	1 050.00	4 200.00
15	Type SR5 straight grab rail 500mm long	No	4	950.00	3 800.00
<b><u>SIGNAGE ETC</u></b>					
16	SS5066-06SSSE02 TEA/KITCHEN sign solid	No	1	250.00	250.00
17	SS5066-06SSSE10 MALE indicator sign solid	No	2	250.00	500.00
18	SS5066-06SSSE11 FEMALE indicator sign solid	No	2	250.00	500.00
19	SS5066-06SSSE14 PARAPLEGIC toilet sign solid	No	4	250.00	1 000.00
<b><u>SUNDRIES</u></b>					
<b><u>"Union" or similar approved</u></b>					
20	"SS8025SS" Hat & coat hook with buffer, plugged	No	12	90.00	1 080.00
21	"87003SN" magnetic doorstop wall & floor mounted	No	12	120.00	1 440.00
<b><u>Polished stainless steel mirror</u></b>					
22	1,2mm Thick polished stainless steel mirror 600 x 600mm high glued to waterproof "Novalam V100" particle board or similar and screw fixed to wall with one way locking screws	No	4.00	850.00	3 400.00
				<b>Carried to Collection</b>	
				R	16 170.00
Section 2 Bill No. 7 Ironmongery (Provisional)					

Section 2

Bill No. 7

Ironmongery (Provisional)

**COLLECTION**

Total Brought Forward from Page No.

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No**

**Amount**

52

5 000.00

53

66 460.00

54

16 170.00

**Carried Forward to Summary of Section No. 2**

R

87 630.00

Section 2

Bill No. 7

Ironmongery (Provisional)

Item No	Quantity	Rate	Amount
<p><b><u>SECTION No. 2: MAIN BUILDING</u></b></p>			
<p><b><u>BILL No. 8 : METALWORK</u></b></p>			
<p><b><u>MODEL PREAMBLES</u></b></p>			
<p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p>			
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p>The Contractor is to check and verify on site that the item specified in the BoQ matches existing prior to placing orders. Additional costs will not be borne by the client for items that do not match existing and are not approved by the Principal Agent</p>			
<p><b><u>METALWORK</u></b></p>			
<p><b><u>ALUMINIUM WINDOWS, DOORS, ETC</u></b></p>			
<p>Doors and windows shall comply with AAAMSA design criteria</p>			
<p>Glazing shall comply with SAGGA regulations. Glass shall be laminated performance glass as shown on the window schedules/drawings appended to these procurement documents. Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings</p>			
<p>Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed</p>			
<p>For purpose made windows and doors, refer to drawings annexed to these procurement documents</p>			
<p>The following certificates shall be provided prior to commencement of site work:</p>			
<p>1 A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product</p>			
<p><b>Carried to Collection</b></p>			
<p>Section 2 Bill No. 8 Metalwork</p>			R

- 2 A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively
- 3 A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process
- 4 A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked
- 5 A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for period of not less than five years

**CPAP ADJUSTMENT**

Unless otherwise stated all the following items shall be deemed to fall into Work Group 149 for Contract Price Adjustment Provisions

**Purpose made powder coated aluminium windows, doors, etc. glazed with 6.38mm laminated clear safety glass complying with SABS 1263, complete with subframes, ironmongery, sealing, etc. and fixing to brickwork or concrete**

1	Window, 1500 x1111mm high, with 6.38mm clear laminated safety glass	No	1	3 000.00	3 000.00
2	Window, 600 x700mm high, with 6.38mm clear laminated safety glass	No	9	1 300.00	11 700.00
3	Window, 600 x700mm high, with 6.38mm clear laminated safety glass	No	5	1 300.00	6 500.00
4	Window, 1500 x1500mm high, with 6.38mm clear laminated safety glass	No	6	3 500.00	21 000.00
5	Door, 1500 x 2400mm high, with 6.38mm clear laminated safety glass	No	9	7 300.00	65 700.00

**Carried to Collection**

R 107 900.00

Section 2  
Bill No. 8  
Metalwork

Section 2

Bill No. 8

Metalwork

**COLLECTION**

Total Brought Forward from Page No.

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No**

**Amount**

56

57

107 900.00

**Carried Forward to Summary of Section No. 2**

R

107 900.00

Section 2  
Bill No. 8  
Metalwork

Item No		Quantity	Rate	Amount	
	<b><u>SECTION No. 2: MAIN BUILDING</u></b>				
	<b><u>BILL No. 9 : PLASTERING</u></b>				
	<b><u>MODEL PREAMBLES</u></b>				
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates				
	<b><u>PLASTERING</u></b>				
	<b><u>SCREEDS</u></b>				
	<b><u>1:3 Cement and sand screeds steel trowelled on concrete:</u></b>				
1	30mm Thick on floors.	m2	545	95.00	51 775.00
	<b><u>INTERNAL PLASTER</u></b>				
	<b><u>Cement plaster on brickwork:</u></b>				
2	On walls.	m2	601	80.00	48 080.00
3	In narrow widths.	m2	15	90.00	1 350.00
	<b><u>EXTERNAL PLASTER</u></b>				
	<b><u>Cement plaster on brickwork</u></b>				
4	On walls	m2	240.00	85.00	20 400.00
5	On narrow widths	m2	6.00	90.00	540.00
	<b><u>Cement plaster on concrete</u></b>				
6	On walls	m2	159.00	85.00	13 515.00
7	On narrow widths	m2	4.00	95.00	380.00
	<b>Carried Forward to Summary of Section No. 2</b>			R	136 040.00
	Section 2 Bill No. 9 Plastering				

Item No	<b><u>SECTION No. 2: MAIN BUILDING</u></b>	Quantity	Rate	Amount	
	<b><u>BILL No. 10 : TILING</u></b>				
	<b><u>MODEL PREAMBLES</u></b>				
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates				
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
	<u>Proprietary products in descriptions:</u>				
	Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.				
	<u>Fixing:</u>				
	Tiling shall be fixed with an approved tile adhesive to a plaster backing. Plaster backing is measured elsewhere.				
	<b><u>WALL TILING</u></b>				
	<b><u>Provide the Prime Cost amount of R250/m2 for 600 x 600 x 5mm thick porcelain wall tiles , supplied and delivered to site, fixed with rapid setting tile adhesive to plaster (plaster elsewhere) and flush pointed with tinted grout</u></b>				
1	On plastered walls.	m2	201	300.00	60 300.00
2	On narrow widths	m2	5	300.00	1 500.00
	<b>Carried to Collection</b>			R	61 800.00
	Section 2 Bill No. 10 Tiling				

**FLOOR TILING**

**Provide the Prime Cost amount of R250/m2 for 600 x 600 x 10mm thick porcelain floor tiles , supplied and delivered to site, fixed with rapid setting tile adhesive to screed (screed elsewhere) and flush pointed with tinted waterproof jointing compound**

3	On floors and landings	m2	545	300.00	163 500.00
4	Skirting 100mm high of cut tiles	m	243	60.00	14 580.00

**Carried to Collection**

R 178 080.00

Section 2  
Bill No. 10  
Tiling

Section 2

Bill No. 10

Tiling

**COLLECTION**

Total Brought Forward from Page No.

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No**

**Amount**

60

61 800.00

61

178 080.00

**Carried Forward to Summary of Section No. 2**

R

239 880.00

Section 2  
Bill No. 10  
Tiling

Item No	<b><u>SECTION No. 2: MAIN BUILDING</u></b>	Quantity	Rate	Amount	
	<b><u>BILL No. 11 : PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>				
	<b><u>MODEL PREAMBLES</u></b>				
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates				
	<b><u>PLUMBING AND DRAINAGE</u></b>				
	<b><u>CPAP ADJUSTMENT</u></b>				
	Unless otherwise stated all the following items shall be deemed to fall into Work Group 148 for Contract Price Adjustment Provisions				
	<b><u>SANITARY FITTINGS</u></b>				
	<b><u>"Franke" or similar approved stainless steel</u></b>				
1	Code 312081 sink and drainer 1500 x 535mm wide with double bowl and 75mm high splashback along back, fixed with Falcon brackets to wall	No	1	5 000.00	5 000.00
	<b><u>"Vaal" or similar approved</u></b>				
2	White vitreous china wall hung WC suite installed complete with washdown pan with rear inlet for Flushmaster flush valve (elsewhere measured) with and including heavy duty double flap plastic seat and cover	No	9	5 500.00	49 500.00
3	White vitreous china wall hung WC suite installed complete with Paraplegic washdown pan with rear inlet for Flushmaster flush valve (elsewhere measured) with and including heavy duty double flap plastic seat and cover	No	4	10 320.00	41 280.00
	<b>Carried to Collection</b>			R	95 780.00
	Section 2 Bill No. 11 Plumbing and Drainage (Provisional)				

**KWAXOLO CAVES PRECINCT DEVELOPMENT - PHASE 1B**

4	Back inlet wall hung urinal with spreader and domical grating (flushing valve elsewhere)	No	4	5 940.00	23 760.00
5	White vitreous china wall hung WHB installed complete	No	13	3 200.00	41 600.00

**PLUMBING**

**Plumbing Budgetary Allowances**

6	Allow for an amount of R 50 000.00 (Fifty Thousand Rands) for additional Plumbing Installations.		Item		50 000.00
7	Allow for attendance on the above.		Item		5 000.00
8	Allow for profit on the above.		Item		10 000.00

**Carried to Collection**

R 130 360.00

Section 2  
 Bill No. 11  
 Plumbing and Drainage (Provisional)

Section 2

Bill No. 11

Plumbing and Drainage (Provisional)

**COLLECTION**

Total Brought Forward from Page No.

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No**

**Amount**

63

95 780.00

64

130 360.00

**Carried Forward to Summary of Section No. 2**

R

226 140.00

Section 2

Bill No. 11

Plumbing and Drainage (Provisional)

Item No	<b><u>SECTION No. 2: MAIN BUILDING</u></b>	Quantity	Rate	Amount
	<b><u>BILL No. 12 : GLAZING</u></b>			
	<b><u>MODEL PREAMBLES</u></b>			
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
	<b><u>GLAZING</u></b>			
	<b><u>(CPAP WORK GROUP NO. 150 UNLESS OTHERWISE STATED)</u></b>			
	<b><u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u></b>			
	<b><u>5mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u></b>			
1	Mirror 600 x 600mm high with 4 screws	No	7	850.00
				5 950.00
	<b>Carried Forward to Summary of Section No. 2</b>			R 5 950.00
	Section 2 Bill No. 12 Glazing			

Item No	<b><u>SECTION No. 2: MAIN BUILDING</u></b>	Quantity	Rate	Amount	
	<b><u>BILL No. 13 : PAINTWORK</u></b>				
	<b><u>MODEL PREAMBLES</u></b>				
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates				
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
	<b><u>Trade Names</u></b>				
	Where trade names are specified it will read "or equal approved"				
	<b><u>(CPAP WORK GROUP NO. 152 UNLESS OTHERWISE STATED)</u></b>				
	<b><u>PAINTWORK ETC TO NEW WORK</u></b>				
	<b><u>ON FLOATED PLASTER</u></b>				
	<b><u>Prepare and brush surface to remove all loose contaminants and apply one coat PP700 gypsum and plaster primer and two coats "Plascon Polvin" or equal approved emulsion paint for interior use</u></b>				
1	On internal walls.	m2	566	75.00	42 450.00
	<b><u>One coat alkali resistant plaster primer and two coats exterior modified acrylic fine textured emulsion paint</u></b>				
2	On external walls	m2	486.00	75.00	36 450.00
	<b>Carried Forward to Summary of Section No. 2</b>			R	78 900.00
	Section 2 Bill No. 13 Paintwork				

Section 2

**SECTION SUMMARY - BUILDING WORKS**

Bill No	Page No	Amount
Earthworks (Provisional)	26	149 491.00
Concrete, Formwork and Reinforcement (Provisional)	31	582 375.00
Masonry	35	396 784.00
Waterproofing	38	12 796.00
Roof Coverings Etc.	42	450 500.00
Carpentry and Joinery	51	484 320.00
Ironmongery (Provisional)	55	87 630.00
Metalwork	58	107 900.00
Plastering	59	136 040.00
Tiling	62	239 880.00
Plumbing and Drainage (Provisional)	65	226 140.00
Glazing	66	5 950.00
Paintwork	67	78 900.00

**Carried to Final Summary**

R 2 958 706.00

Section 2

Item No	Quantity	Rate	Amount
<p><b><u>SECTION No. 3: EXTERNAL WORKS (PROVISIONAL)</u></b></p>			
<p><b><u>BILL No. 1 : EARTHWORKS (PROVISIONAL)</u></b></p>			
<p><b><u>MODEL PREAMBLES</u></b></p>			
<p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p>			
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p><u>Proprietary products in descriptions:</u></p>			
<p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p>			
<p><u>Nature of material to be excavated:</u></p>			
<p>The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock".</p>			
<p><u>Carting away of excavated material:</u></p>			
<p>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.</p>			
<p><u>Dewatering of excavations:</u></p>			
<p>The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water</p>			
<p><b>Carried to Collection</b></p>			
<p>Section 3 Bill No. 1 Earthworks (Provisional)</p>			R

Density testing on filling:

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.

Filling and layer work materials

References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter

Imported fill:

"Filling and bedding to trenches etc. to be in compliance with SABS 1200 DB and LB respectively"

**SITE CLEARANCE ETC**

**Site clearance**

1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	1 500	10.00	15 000.00
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	1 000	15.00	15 000.00

**BULK EXCAVATION, FILLING, ETC**

**Open face excavation not exceeding 2m deep including spreading in layers not exceeding 200mm deep and compacting to 95% Mod AASHTO density including forming banks to indicated slopes**

3	Open face excavation to form platforms	m3	2 000	70.00	140 000.00
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**Extra over bulk excavations in earth for excavation in:**

4	Soft rock	m3	150	120.00	18 000.00
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**Carried to Collection**

R 188 000.00

Section 3  
Bill No. 1  
Earthworks (Provisional)



Section 3

Bill No. 1

Earthworks (Provisional)

**COLLECTION**

Total Brought Forward from Page No.

**Page  
No**

**Amount**

69

70

71

188 000.00

93 000.00

**Carried Forward to Summary of Section No. 3**

R

281 000.00

Section 3

Bill No. 1

Earthworks (Provisional)

Item No		Quantity	Rate	Amount
	<b><u>SECTION No. 3: EXTERNAL WORKS (PROVISIONAL)</u></b>			
	<b><u>BILL No. 2 : GENERAL SITE WORKS (PROVISIONAL)</u></b>			
	PREAMBLES			
	The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<b><u>THE FOLLOWING IN GENERAL SITE WORKS: BRAAI AREA, APRONS, PATHWAYS, ETC.</u></b>			
	<b><u>Excavation in earth not exceeding 2m deep:</u></b>			
1	Trenches	m3	13	95.00 1 235.00
2	Holes	m3	2	95.00 190.00
	<b><u>Extra over all excavations for carting away:</u></b>			
3	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	58	90.00 5 220.00
	<b><u>Risk of collapse of excavations:</u></b>			
4	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	50	70.00 3 500.00
5	Sides of trench and hole excavations exceeding 1,5m deep.	m2	6	70.00 420.00
	<b><u>Keeping excavations free of water:</u></b>			
6	Keeping excavations free from mud and all water including subterranean sources.		Item	4 000.00
	<b>Carried to Collection</b>			R 14 565.00
	Section 3 Bill No. 2 General Site Works (Provisional)			

**Earth filling obtained from the excavations and / or prescribed stock piles on site compacted to 95% Mod. AASHTO density:**

7	Backfilling to trenches, holes, etc.	m3	7	70.00	490.00
8	Under floors etc	m3	38	70.00	2 660.00

**SOIL POISONING**

**Approved brand of antitermite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:**

9	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming.	m2	279	25.00	6 975.00
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**CONCRETE, FORMWORK AND REINFORCEMENT**

**20Mpa/19mm Concrete**

10	Aprons	m3	9	2 000.00	18 000.00
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**25Mpa/19mm Concrete**

11	Bases	m3	2	2 200.00	4 400.00
12	Strip Footings	m3	4	2 200.00	8 800.00
13	Surface beds	m3	13	2 200.00	28 600.00

**REINFORCED CONCRETE**

**25MPa/19mm concrete**

14	Slab	m3	2	2 200.00	4 400.00
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**TEST BLOCKS**

**Test blocks:**

15	Making and testing set of three 150x150x150mm concrete strength test cubes (Provisional).	No	1	650.00	650.00
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**Carried to Collection**

**R 74 975.00**

Section 3  
Bill No. 2  
General Site Works (Provisional)

**FINISHING TOP SURFACE OF CONCRETE**

**Finishing top surfaces of concrete smooth with a wood float including non-slip:**

16	Surface beds, slabs, etc	m2	269	45.00	12 105.00
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**SMOOTH FORMWORK (DEGREE OF ACCURACY I / II)**

**Smooth Formwork to Sides:**

17	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	235	60.00	14 100.00
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**Smooth Formwork to Soffits:**

18	Slabs propped up not exceeding 1.5m high	m2	17	650.00	11 050.00
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**REINFORCEMENT (PROVISIONAL)**

**Fabric reinforcement:**

19	REF. 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	251	85.00	21 335.00
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**Mild steel reinforcement to structural concrete work:**

20	Various Diameter bars.	t	0.1	17 000.00	1 700.00
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**Sundries**

21	Provide the Prime Cost amount of R500/item for Braai Grid, supplied to site and installed to architect's approval	No	5	850.00	4 250.00
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22	Provide the Prime Cost amount of R3000/item for treated timber slats to manufacture specification fitted to 100 x 100 Galvanised steel poles as per drawing PNZ/MC/EP, supplied to site and installed to architect's approval	No	5	4 000.00	20 000.00
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23	Provide the Prime Cost amount of R5000/item for recycled plastic standard picnic table and bench supplied to site and installed to architect's approval	No	10	6 000.00	60 000.00
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**Carried to Collection**

R 144 540.00

Section 3  
Bill No. 2  
General Site Works (Provisional)

**MASONRY**

**BRICKWORK IN FOUNDATIONS (PROVISIONAL)**

**Brickwork of concrete bricks in class I mortar**

24	One brick walls	m2	10	550.00	5 500.00
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**BRICKWORK IN SUPERSTRUCTURE**

**Brickwork of concrete bricks in class I mortar**

25	One brick walls	m2	33	550.00	18 150.00
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**BRICKWORK AND BLOCKWORK SUNDRIES**

**Brickwork reinforcement:**

26	230mm Wide reinforcement built in horizontally.	m	133	5.00	665.00
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27	Ditto, but in foundations (Provisional).	m	119	5.00	595.00
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**THE FOLLOWING IN WATER  
RETICULATION**

**Class 10 HDPe SDR 17 pipes**

28	42mm Pipes laid in and including trenches not exceeding 1m deep on and including granular material bedding, covered with a fill blanket, including excavations, backfilling in layers not exceeding 150mm thick and compacting, etc, complete	m	50	130.00	6 500.00
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29	75mm Pipes laid in and including trenches not exceeding 1m deep on and including granular material bedding, covered with a fill blanket, including excavations, backfilling in layers not exceeding 150mm thick and compacting, etc, complete	m	100	180.00	18 000.00
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30	75mm Pipes vertical above ground	m	20	150.00	3 000.00
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**Extra over Class 10 HDPe SDR 17 pipes for fittings**

31	Fittings	No	15	200.00	3 000.00
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**Sundries**

32	Extra over excavations in earth for pipe trenches, etc. for excavations in soft rock	m3	4	302.00	1 208.00
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**Carried to Collection**

R **56 618.00**

Section 3  
Bill No. 2  
General Site Works (Provisional)

**KWAXOLO CAVES PRECINCT DEVELOPMENT - PHASE 1B**

33	Extra over excavations in earth for pipe trenches, etc. for excavations in hard rock	m3	2	845.00	1 690.00
	<b><u>AVK or similar approved</u></b>				
34	75mm Brass fullway gate valve	No	1	6 000.00	6 000.00
35	42mm diameter isolation valve	No	4	3 000.00	12 000.00
36	42mm Brass non-return valve	No	1	4 500.00	4 500.00
	<b><u>Thrust blocks</u></b>				
37	Class 15MPa/20mm unreinforced concrete in thrust blocks at bends, tees, etc including necessary additional excavation, formwork, etc	m3	2	1 500.00	3 000.00
	<b><u>TANKS, ETC</u></b>				
	<b><u>Jojo or equal approved Plastic water tanks on concrete plinth:</u></b>				
38	10000 Litre heavy duty cylindrical tank complete with lid, 15mm brass bibtap with handle suitable for locking and 4 No. galvanised stay wires 2.5m each long connected to tank, with and including 4 No. eye bolts cast into concrete (concrete plinth elsewhere).	No	1	19 000.00	19 000.00
	<b><u>Jojo or equal approved Plastic water tanks on elevated steel stand</u></b>				
39	10000 Litre heavy duty cylindrical "Jojo" or equal approved Plastic water tanks complete with all accessories fixed to elevated steel tank stand platform, complete with all connections as per engineers drawing.	No	4	19 000.00	76 000.00
	<b><u>GALVANISED STEEL TANK STAND</u></b>				
	<b><u>GALVANISED STEEL COLUMNS AND BEAMS</u></b>				
	<b><u>Welded beams in single lengths with flat section bea rer and connection plates bolted to concrete:</u></b>				
40	100 x 55 x 8kg/m 'H'-section columns.	t	0.65	40 000.00	26 000.00
41	203 x 203 x 52kg/m 'H'-section columns.	t	1.09	40 000.00	43 600.00
	<b>Carried to Collection</b>				
				R	191 790.00
	Section 3 Bill No. 2 General Site Works (Provisional)				

**GALVANISED RAFTERS, PURLINS, GIRTS, BRACING, ETC.**

**Treater prefabricated Iron frames, section, rafters, purlins bolted to steel:**

42	100 x 100 x 10kg/m angle horizontal beam/bracing	t	1.26	40 000.00	50 400.00
43	80 x 80 x 8kg/m angle diagonal bracing	t	2.47	40 000.00	98 800.00

**STEEL STAIRS, BALUSTRADES, HANDRAILS, CAT LADDERS, FLOORING, ETC**

**Elevated galvernised steel platform**

44	9800 x 4200 x 6mm chequered galvanised steel plate welded to beams to form tank platform	m2	40	1 800.00	72 000.00
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**Access Ladder**

45	Galvanized steel access Ladder suitable for a 5m high steel stand fitted complete as per engineer's drawings	No	1	9 800.00	9 800.00
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**Elevated galvanised steel balustrades**

46	Horizontal balustrading to walkways or landings comprising 90° PM peg mounted stanchions at 1,5m centres with top- and knee rails of straight tube, with 90° closure, all necessary bends and slip joints, the stanchions to be bolted in position and tube sections to be joined with slip joints and welded inside the stanchion balls as per engineer's drawings	m	28	1 200.00	33 600.00
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**Water Pumps**

47	Water pump "Vansan CS200 230V centrifugal surface pump" or similar approved fitted complete with all accessories	No	2	6 000.00	12 000.00
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**Sundries**

48	L-shaped anchor bolts, M16, (grade 8.8) with 185mm long x 24mm thread on the protruding end with and including two 24mm nuts and washers per anchor	No	24	500.00	12 000.00
49	110mm Diameter expansion bolt and nut	No	48	100.00	4 800.00

**Carried to Collection**

R 293 400.00

Section 3  
Bill No. 2  
General Site Works (Provisional)

**FIRE EQUIPMENT, PIPING & FITTINGS**

50	Supply and Install Fire Hydrant c/w valves of gunmetal and of the instantaneous female outlet type with screwed or flanged pipe connections. Right-angled valves with 65mm internal diameter hose connections shall be fitted, unless other valve types or internal diameters are required by the local fire department.	No	1	5 865.00	5 865.00
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**THE FOLLOWING IN SOIL DRAINAGE**

**Class 34 uPVC "Mainline" or similar approved pipes**

51	160mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	20	255.00	5 100.00
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52	160mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep on and including bedding, covered with a fill blanket, including excavations, backfilling in layers not exceeding 150mm thick and compacting, etc, complete	m	130	290.00	37 700.00
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**Extra over class 34 uPVC "Mainline" or similar approved pipes for fittings**

53	160mm Junction, Acces pipe, Bend etc	No	15	290.00	4 350.00
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**PVC gulleys**

54	110mm Gully exceeding 750mm and not exceeding 1000mm deep	No	5	290.00	1 450.00
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**Precast concrete circular inspection chambers, with starter ring cast into and including excavation, backfilling and cart away, benching, 25MPa/20mm reinforced concrete foundation, stepping irons 150mm wide at 300mm centres, etc. complete (covers elsewhere)**

55	Inspection chamber 1000mm not exceeding 1000mm deep internally	No	4	7 000.00	28 000.00
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**Gratings, covers, etc**

56	600mm diameter precast concrete cover and frame	No	4	2 800.00	11 200.00
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**Sundries**

57	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock	m3	6	302.00	1 812.00
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**Carried to Collection**

**R 95 477.00**

Section 3  
Bill No. 2  
General Site Works (Provisional)



<b><u>Risk of collapse of excavations:</u></b>					
71	Sides of trench and hole excavations exceeding 1,5m deep.	m2	72	70.00	5 040.00
<b><u>Keeping excavations free of water:</u></b>					
72	Keeping excavations free from mud and all water including subterranean sources.		Item		1 000.00
<b><u>Earth filling obtained from the excavations and / or prescribed stock piles on site compacted to 95% Mod. AASHTO density:</u></b>					
73	Backfilling to trenches, holes, etc.	m3	1	65.00	65.00
<b><u>Compaction of surfaces.</u></b>					
74	Compaction of ground surface including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material from excavated material where necessary and compacting to 93% Mod AASHTO density.	m2	31	12.00	372.00
<b><u>SOIL POISONING</u></b>					
<b><u>Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:</u></b>					
75	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming.	m2	129	25.00	3 225.00
<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>					
76	Strip Footings	m3	6	2 200.00	13 200.00
77	Surface beds	m3	5	2 200.00	11 000.00
<b><u>REINFORCED CONCRETE</u></b>					
<b><u>25MPa/19mm concrete</u></b>					
78	Slab	m3	6	2 200.00	13 200.00
				R	47 102.00
<b>Carried to Collection</b>					
Section 3 Bill No. 2 General Site Works (Provisional)					

<b><u>Test blocks:</u></b>					
79	Making and testing set of three 150x150x150mm concrete strength test cubes (Provisional).	No	3	650.00	1 950.00
<b><u>FINISHING TOP SURFACE OF CONCRETE</u></b>					
<b><u>Finishing top surfaces of concrete smooth with a wood float including non-slip:</u></b>					
80	Surface beds, slabs, etc	m2	62	45.00	2 790.00
<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY I / II )</u></b>					
<b><u>Smooth Formwork to Sides:</u></b>					
81	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	24	350.00	8 400.00
<b><u>Smooth Formwork to Soffits:</u></b>					
82	Slabs propped up not exceeding 1.5m high	m2	31	250.00	7 750.00
<b><u>REINFORCEMENT (PROVISIONAL)</u></b>					
<b><u>Mild steel reinforcement to structural concrete work:</u></b>					
83	Various Diameter bars.	t	0.63	17 000.00	10 710.00
<b><u>MASONRY</u></b>					
<b><u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u></b>					
<b><u>Brickwork of concrete bricks in class I mortar</u></b>					
84	One brick walls	m2	31	580.00	17 980.00
85	Ditto, but in foundations (Provisional).	m	375	3.00	1 125.00
<b><u>WATERPROOFING</u></b>					
<b><u>Coprox waterproofing system, or equal similar approved waterproofing.</u></b>					
86	To Floors	m2	31	200.00	6 200.00
87	To walls	m2	31	200.00	6 200.00
<b><u>PLASTERING</u></b>					
<b>Carried to Collection</b>				R	63 105.00
Section 3 Bill No. 2 General Site Works (Provisional)					

<b><u>INTERNAL PLASTER</u></b>					
<b><u>Cement plaster on brickwork</u></b>					
88	On walls	m2	31	85.00	2 635.00
<b><u>Gratings, covers, etc</u></b>					
89	600mm Diameter x 75kg cast iron manhole cover and frame	No	2	6 000.00	12 000.00
<b><u>THE FOLLOWING IN STORMWATER DRAINAGE</u></b>					
<b><u>Class 34 uPVC "Mainline" or similar approved pipes</u></b>					
90	110mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep on and including bedding, covered with a fill blanket, including excavations, backfilling in layers not exceeding 150mm thick and compacting, etc, complete	m	60	250.00	15 000.00
91	160mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep on and including bedding, covered with a fill blanket, including excavations, backfilling in layers not exceeding 150mm thick and compacting, etc, complete	m	20	290.00	5 800.00
<b><u>Extra over class 34 uPVC "Mainline" or similar approved pipes for fittings</u></b>					
92	160mm Junction, Acces pipe, Bend, Reducer etc	No	10	290.00	2 900.00
<b><u>Sumps, catch pits, inspection chambers, etc.</u></b>					
<b><u>Excavate in earth for and build with one brick sides in extra hard stock bricks in (1:3) cement mortar on 150mm thick concrete class 25/19 base slab projecting all round, rendered internally in (1:3) cement plaster and including cover slab with slight sloped top surface and with a rebated opening for steel grating or steel cover (elsewhere measured), the bottom benched up in fine mass concrete benching in bottom floated smooth with falls and finished on all exposed surfaces all complete as detailed on Engineer's drawings</u></b>					
93	Inlet manhole not exceeding 750mm deep internally	No	2	7 500.00	15 000.00
94	Inlet manhole exceeding 750mm but not exceeding 1000mm deep internally	No	1	9 500.00	9 500.00
<b>Carried to Collection</b>				R	<b>62 835.00</b>
Section 3 Bill No. 2 General Site Works (Provisional)					



**KWAXOLO CAVES PRECINCT DEVELOPMENT - PHASE 1B**

103	<p>Kerb (SANS 927 fig 6) 125 x 230mm high with 150 x 150 x 230mm unreinforced concrete haunching at back of each joint, circular on plan not exceeding 4m radius formed with short lengths of straight kerbs, including excavation, concrete and mortar beddings, backfilling, etc</p> <p><b><u>Waterberg "Gobble" Paver Size 150 x 150 x 50mm thick Class PA or equal approved paver in accordance with SANS 1058 on 20mm thick Umgeni sand bed with sand-and-cement mixture swept into joints and hosed down, including preparation of ground</u></b></p>	m	12	230.00	2 760.00	
104	<p>Paving to falls</p> <p><b><u>THE FOLLOWING IN PAVING TO DRIVEWAYS, PARKING, ETC</u></b></p> <p><b><u>100mm Thick precast concrete Grass Block Paver of 500 x 500mm or equal approved dark grey colour laid on 20mm thick Umgeni sand bed in accordance with SANS 1058 including preparation of ground and making good</u></b></p>	m2	90	310.00	27 900.00	
105	Grass block paving	m2	450	300.00	135 000.00	
<b>Carried to Collection</b>					R	165 660.00
<p>Section 3          Bill No. 2          General Site Works (Provisional)</p>						

Section 3

Bill No. 2

General Site Works (Provisional)

**COLLECTION**

	<b>Page No</b>	<b>Amount</b>
Total Brought Forward from Page No.	73	14 565.00
	74	74 975.00
	75	144 540.00
	76	56 618.00
	77	191 790.00
	78	293 400.00
	79	95 477.00
	80	40 054.00
	81	47 102.00
	82	63 105.00
	83	62 835.00
	84	45 814.00
	85	165 660.00

**Carried Forward to Summary of Section No. 3**

R 1 295 935.00

Section 3

Bill No. 2

General Site Works (Provisional)

Section 3

**SECTION SUMMARY - EXTERNAL WORKS (PROVISIONAL)**

**Bill  
No**

**Page  
No**

**Amount**

Earthworks (Provisional)

72

281 000.00

General Site Works (Provisional)

86

1 295 935.00

**Carried to Final Summary**

R

1 576 935.00

Section 3

Item No		Quantity	Rate	Amount
	<b><u>SECTION No. 4: PROVISIONAL SUMS</u></b>			
	<b><u>BILL No. 1 : PROVISIONAL SUMS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor.			
	Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related thereto.			
	<b><u>ELECTRICAL INSTALLATION</u></b>			
	<b><u>Electrical Installation</u></b>			
1	Provide an amount of R 350 000.00 (Three Hundred and Fifty Thousand Rand) Electrical Installation and Lighting Protection by specialist.			
	NB: Specialist Certificates of Compliance must be issued upon completion.	Item		350 000.00
2	Add: Profit	Item		35 000.00
3	Add: Attendance	Item		17 500.00
	<b><u>BUDGETARY ALLOWANCES</u></b>			
	<b><u>WORK TO EXISTING INFRASTRUCTURE</u></b>			
	<b><u>Repairs and Maintenance</u></b>			
4	Provide an amount of R 200 000.00 (Two Hundred Thousand Rand) for repairs and maintenance of existing infrastructure including an additional conservancy tank.			
		Item		200 000.00
	<b><u>COMMUNITY LIAISON OFFICER (CLO)</u></b>			
	<b>Carried to Collection</b>		R	602 500.00
	Section 4 Bill No. 1 Provisional Sums			

**The following budgetary allowances are for work to be executed at rates in the bills of quantities or to be agreed by the Principal agent:**

5	Provide the sum of R 45 000,00 (Forty-Five Thousand Rands) for the employment of a Community Liaison Officer (CLO) for a period of Six (6) months	Item	45 000.00
6	Add: Profit (if required)	Item	4 500.00

**Carried to Collection**

R 49 500.00

Section 4  
Bill No. 1  
Provisional Sums

Section 4

Bill No. 1

Provisional Sums

**COLLECTION**

Total Brought Forward from Page No.

**Page  
No**

**Amount**

88

602 500.00

89

49 500.00

**Carried to Final Summary**

R

652 000.00

Section 4  
Bill No. 1  
Provisional Sums

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	PRELIMINARIES	21	500 000.00
2	BUILDING WORKS	68	2 958 706.00
3	EXTERNAL WORKS (PROVISIONAL)	87	1 576 935.00
4	PROVISIONAL SUMS	90	652 000.00
	SUB-TOTAL		R 5 687 641.00
	<b><u>CONTINGENCIES</u></b>		
	Allow Five per cent (5%) of the above sub-total for contingencies to be used as directed and deducted in whole or in part if not required.		R 284 382.05
	SUB-TOTAL:		R 5 972 023.05
	<b>Add Value Added Tax at the rate of 15%</b>		R 895 803.46
	<b>Carried to Form of Offer and Acceptance</b>		R 6 867 826.51