

| Item No | Quantity | Rate | Amount |
|--|----------|------|--------|
| <u>BILL NO. 1</u> | | | |
| <u>PRELIMINARIES</u> | | | |
| <u>BUILDING AGREEMENT AND PRELIMINARIES</u> | | | |
| <p>The JBCC Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The JBCC Principal Building Agreement contract data form an integral part of this agreement</p> <p>The JBCC General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the JBCC Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these bills of quantities, amended as hereinafter described</p> <p>The contractor is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause</p> <p>The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only</p> <p>Where any item is not relevant to this agreement such item is marked N/A signifying "not applicable"</p> <p>Where standard clauses or alternatives are not entirely applicable to this agreement such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the abovementioned documents</p> | | | |
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PREAMBLES FOR TRADES

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

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

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

NATURE OF CONTRACT

Bidders attention is drawn to the fact that the works included under this tender are spread across two (2) sites in various geographical locations. Following on from this, all rates including those entered under this Preliminaries section will be deemed to include for all costs and additional costs associated with working on various sites under one contract, and no further correspondence or claims in this regard will be entertained. Tenderers are therefore urged to study the tender documents and familiarise themselves with the locations of the sites and plan logistics and resources accordingly.

STRUCTURE OF THIS PRELIMINARIES BILL

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

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

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

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PRICING OF PRELIMINARIES

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

SECTION A: PRINCIPAL BUILDING AGREEMENT

Interpretation (A1-A7)

- 1 Clause 1.0 - Definitions and interpretation

Pricing of bills of quantities

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

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

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

Abbreviated descriptions

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

Legal status of contractor

If the **contractor** constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then:

1. These persons are deemed to be jointly and severally liable to the **employer** for the performance of this **agreement**
2. These persons shall notify the **employer** of their leader who has assigned authority to bind the **contractor** and each of these persons
3. The **contractor** shall not alter its composition or legal status without the prior written consent of the **employer**

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Item

2 Clause 2.0 - **Law**, regulations and **notices**

3 Clause 3.0 - Offer and acceptance

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4 Clause 4.0 - Cession and assignment

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Item

5 Clause 5.0 - Documents

Value Added Tax

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Provision is made in the summary page of these **bills of quantities** for the inclusion of Value Added Tax (VAT)

The bills of quantities shall not be used as a basis for ordering of materials etc. All design information shall be confirmed by the relevant design consultant through the issuance of drawings, contract instructions and the like

Electronic issue of drawings

All drawings for this project will be issued electronically and the **contractor** shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically [5.6]

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Item

6 Clause 6.0 - Employer's agents

Delegated authority

The authority of the **principal agent** to issue **contract instructions** [17.1] and perform duties for specific aspects of the **works** is delegated to **agents** as follows [6.2]. This does not preclude the **principal agent** from issuing such **contract instructions**:

1. Principal Agent

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

1. Civil and structural engineer

1.1 Duties [6.2] :

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

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

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

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[illegible]

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| <u>Insurances and securities (A8-A11)</u> | | | | |
| 8 | <p>Clause 8.0 - Works risk</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 9 | <p>Clause 9.0 - Indemnities</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 10 | <p>Clause 10.0 - Insurances</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 11 | <p>Clause 11.0 - Securities</p> <p><u>Execution (A12 - A17)</u></p> | | | |
| 12 | <p>Clause 12.0 - Obligations of the parties</p> <p>Office accommodation</p> <p>The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]</p> <p>Notice board</p> <p>The contractor shall erect in a position approved by the principal agent, maintain and remove on practical completion a notice board recommended by the South African Institute of Architects and as approved by the principal agent listing the names and logos of the employer, the contractor and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the principal agent for such notice boards to be erected [12.2.18]</p> <p>Statutory and other notices</p> | | | |
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| | <p>The contractor shall submit and/or comply with all statutory and other notices that may be required by any local or other authority in order not to cause any delay to the commencement of the works by the contractor. The contractor shall pay all deposits or fees in this regard</p> <p>It is, however, specifically recorded that the employer shall be responsible for the timeous approval of building plans by any local or other authorities and the payment of any fees or charges related thereto</p> <p>F:..... V:..... T:.....</p> | | | |
| 13 | <p>Clause 13.0 - Setting out</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 14 | <p>Clause 14.0 - Nominated subcontractors</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 15 | <p>Clause 15.0 - Selected subcontractors</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 16 | <p>Clause 16.0 - Direct contractors</p> <p>Attendance on direct contractors</p> <p>In respect of direct contractors the contractor shall:</p> <ol style="list-style-type: none"> 1. Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials 2. Allow the use of personnel welfare facilities, where provided 3. Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation | | | |
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| | 4. Permit the direct contractor to use erected scaffolding, hoisting facilities, etc provided by the contractor , in common with others having the like right, while it remains erected on the site [16.1] F:..... V:..... T:..... | Item | | |
| 17 | Clause 17.0 - Contract instructions Site instructions Instructions issued on site are to be recorded in a site instruction book which is to be supplied and maintained on site by the contractor F:..... V:..... T:..... <u>Completion (A18 - A24)</u> | Item | | |
| 18 | Clause 18.0 - Interim completion | N/A | | |
| 19 | Clause 19.0 - Practical completion F:..... V:..... T:..... | Item | | |
| 20 | Clause 20.0 - Completion in sections F:..... V:..... T:..... | Item | | |
| 21 | Clause 21.0 - Defects liability period and final completion F:..... V:..... T:..... | Item | | |
| 22 | Clause 22.0 - Latent defects liability period F:..... V:..... T:..... | Item | | |
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| 23 | <p>Clause 23.0 - Revision of the date for practical completion</p> <p>Substitution of materials and goods</p> <p>The removal or substitution of any materials and goods which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [17.1.8; 23.1 & 2]</p> <p>F:..... V:..... T:.....</p> | Item | | | |
| 24 | <p>Clause 24.0 - Penalty for late or non-completion</p> <p>F:..... V:..... T:.....</p> <p><u>Payment (A25 - A27)</u></p> | Item | | | |
| 25 | <p>Clause 25.0 - Payment</p> <p>Prices submitted</p> <p>Where prices are submitted by the contractor or subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of this agreement and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the certificate of final completion, it shall be in writing</p> <p>F:..... V:..... T:.....</p> | Item | | | |
| 26 | <p>Clause 26.0 - Adjustment of the contract value and final account</p> <p>Fluctuations in costs</p> <p>All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor [26.9.5]</p> | | | | |
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Tenant installation/user requirements delayed

There is a possibility that certain works related to tenant installation/user requirements may have to be delayed and may consequently not be executed prior to **practical completion**

Should the **contractor** be instructed to do so he shall execute this work under the conditions pertaining to this **agreement** on the basis that a separate amount for **preliminaries** appurtenant to this work (if applicable) is agreed to between the **contractor** and the **principal agent** and on condition that instruction to proceed with such work is given to him within a period of three (3) calendar months after the date of **practical completion** of the **works**

The **employer** reserves the right to omit such work without compensation to the **contractor** for loss of profit or any other loss which the **contractor** may suffer as a result of such omission

Cost of claims

All costs incurred by the **contractor** in the preparation of claims shall be borne by the **contractor**. This provision shall not preclude an adjudicator or an arbitrator appointed in terms of this **agreement** [30.6 & 7] from making a determination on costs

Claims from subcontractors

The **contractor** shall review, assess and adjudicate any claims received by him from any **subcontractor** and thereafter submit same to the **principal agent** with a recommendation in order to assist the **principal agent** in adjudicating the claim [26.6]

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Item

27 Clause 27.0 - Recovery of expense and/or loss

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Suspension and termination (A28 - A29)

28 Clause 28.0 - Suspension by the **contractor**

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| | <p>F:..... V:..... T:.....</p> | Item | |
| 29 | <p>Clause 29.0 - Termination</p> <p>F:..... V:..... T:.....</p> <p><u>Dispute resolution (A30)</u></p> | Item | |
| 30 | <p>Clause 30.0 - Dispute resolution</p> <p>F:..... V:..... T:.....</p> | Item | |
| 31 | <p><u>Agreement</u></p> <p>The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties</p> <p>F:..... V:..... T:.....</p> | Item | |
| 32 | <p><u>Contract data</u></p> <p>Tenderer's selections</p> <p>Before submission of his tender the contractor is to complete the tenderer's selections in the contract data</p> <p>F:..... V:..... T:.....</p> | Item | |
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SECTION B: GENERAL PRELIMINARIES

Definitions and interpretation (B1)

33 Clause 1.1 - Definitions

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34 Clause 1.2 - Interpretation

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Documents (B2)

35 Clause 2.1 - Checking of documents

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

Multiple procurement

Not Applicable

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Item

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

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Item

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

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Previous work and adjoining properties (B3)

39 Clause 3.1 - Previous work - dimensional accuracy

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| 40 | <p>Clause 3.2 - Previous work - defects</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 41 | <p>Clause 3.3 - Inspection of adjoining properties</p> <p>F:..... V:..... T:.....</p> <p><u>The site (B4)</u></p> | Item | | |
| 42 | <p>Clause 4.1 - Handover of site in stages</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 43 | <p>Clause 4.2 - Enclosure of the works</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 44 | <p>Clause 4.3 - Geotechnical and other investigations</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 45 | <p>Clause 4.4 - Encroachments</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 46 | <p>Clause 4.5 - Existing premises occupied</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 47 | <p>Clause 4.6 - Services - known</p> <p>F:..... V:..... T:.....</p> <p><u>Management of contract (B5)</u></p> | Item | | |
| 48 | <p>Clause 5.1 - Management of the works</p> <p>F:..... V:..... T:.....</p> | Item | | |
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| 49 | <p>Clause 5.2 - Progress meetings</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 50 | <p>Clause 5.3 - Technical meetings</p> <p>F:..... V:..... T:.....</p> <p><u>Samples, shop drawings and manufacturer's instructions (B6)</u></p> | Item | | |
| 51 | <p>Clause 6.1 - Samples of materials</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 52 | <p>Clause 6.2 - Workmanship samples</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 53 | <p>Clause 6.3 - Shop drawings</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 54 | <p>Clause 6.4 - Compliance with manufacturer's instructions</p> <p>F:..... V:..... T:.....</p> <p><u>Deposits and fees (B7)</u></p> | Item | | |
| 55 | <p>Clause 7.1 - Deposits and fees</p> <p>F:..... V:..... T:.....</p> <p><u>Temporary services (B8)</u></p> | Item | | |
| 56 | <p>Clause 8.1 - Water</p> <p>F:..... V:..... T:.....</p> | Item | | |
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| 57 | <p>Clause 8.2 - Electricity</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 58 | <p>Clause 8.3 - Ablution and welfare facilities</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 59 | <p>Clause 8.4 - Communication facilities</p> <p>F:..... V:..... T:.....</p> <p><u>Prime cost amounts (B9)</u></p> | Item | | |
| 60 | <p>Clause 9.1 - Responsibility for prime cost amounts</p> <p><u>Attendance on subcontractors (B10)</u></p> | | | |
| 61 | <p>Clause 10.1 - General attendance</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 62 | <p>Clause 10.2 - Special attendance</p> <p><u>General (B11)</u></p> | | | |
| 63 | <p>Clause 11.1 - Protection of the works</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 64 | <p>Clause 11.2 - Protection/isolation of existing works and works occupied in sections</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 65 | <p>Clause 11.3 - Security of the works</p> <p>F:..... V:..... T:.....</p> | Item | | |
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| 66 | <p>Clause 11.4 - Notice before covering work</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 67 | <p>Clause 11.5 - Disturbance</p> <p>Disturbance</p> <p>All work is to be carried out in such a manner as to cause no unacceptable or unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic in so far as they exceed the permissible limitations set by government legislation or by the local authority. Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the construction period or contract value whatsoever</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 68 | <p>Clause 11.6 - Environmental disturbance</p> <p>Controlling all forms of pollution</p> <p>The contractor shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution emanating from the site during the construction period due inter alia to noise, artificial light, wind-blown sand, dust, deposits of mud, etc</p> <p>The contractor is to ensure that all roads which border the site and are used by the contractor during the execution of the works are kept clean and free of any dirt or debris caused by the execution of the works ?</p> <p>Environmental management plan</p> <p>Not Applicable</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 69 | <p>Clause 11.7 - Works cleaning and clearing</p> <p>F:..... V:..... T:.....</p> | Item | | |
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| 70 | <p>Clause 11.8 - Vermin</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 71 | <p>Clause 11.9 - Overhand work</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 72 | <p>Clause 11.10 - Tenant installations</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 73 | <p>Clause 11.11 - Advertising</p> <p>F:..... V:..... T:.....</p> | Item | | |
| <u>SECTION C: SPECIFIC PRELIMINARIES</u> | | | | |
| 74 | <p>Warranties for materials and workmanship</p> <p>Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the entity supplying the materials and/or executing the work and shall deliver same to the principal agent on final completion of the contract</p> <p>The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of practical completion and that any defects that may arise during the specified period shall be made good at the expense of the entity supplying the materials and/or doing the work, upon written notice to do so</p> <p>The warranty will not be enforced if the work is damaged by defects in the execution of the works, in which case the responsibility for replacement shall rest entirely with the contractor</p> <p>F:..... V:..... T:.....</p> | Item | | |
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| 75 | <p>Overtime</p> <p>Should overtime be required to be worked for any reason whatsoever, the cost of such overtime is to be borne by the contractor unless the principal agent has specifically authorised, prior to execution thereof, that costs for such overtime are to be borne by the employer</p> <p>F:..... V:.....T:.....</p> | Item | | |
| 76 | <p>Cooperation of the contractor for cost management</p> <p>It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the contract value does not exceed the budget</p> <p>F:..... V:.....T:.....</p> | Item | | |
| 77 | <p>Overloading</p> <p>The contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the works or temporary works eg scaffolding, etc. The contractor shall submit details of his proposed loading, storage, plant erection, etc to the principal agent for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the principal agent's requirements in connection with the provision of temporary support work, etc. Any damage caused to the works by overloading shall be made good by the contractor at his sole expense</p> <p>F:..... V:.....T:.....</p> | Item | | |
| 78 | <p>Propping of floors below</p> <p>The contractor is advised that propping of floors below will be required where work is carried out on existing concrete roofs. Rates shall be deemed inclusive of all required propping.</p> <p>F:..... V:.....T:.....</p> | Item | | |
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79 Testing of flat roof waterproofing for watertightness

Flat roof waterproof areas shall be flooded and kept "ponded" for at least forty eight (48) hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing

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Item

80 Health and safety

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

Health and safety

Without limiting the generality of the provisions of clause 2.0, the **contractor's** attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. The **contractor** shall price opposite this item for compliance with the act and the regulations

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| | <p>The contractor shall:</p> <ol style="list-style-type: none"> 1. Comply with the health and safety specification for the works 2. Prepare and agree with the Principal Agent the health and safety plan for the works 3. Cooperate with the Principal Agent in all respects 4. Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification 5. Conform to the conditions contained in the employer's health and safety specification <p>F:..... V:..... T:.....</p> | | | |
| 81 | <p>Broad based black economic empowerment (BBBEE)</p> <p>Tenders submitted will be evaluated taking into account their empowerment rating</p> <p>The employer will be monitoring the broad based black economic empowerment (BBBEE) status of the contractor throughout the execution of the works</p> <p>The contractor is to submit to the principal agent on an annual basis a schedule of spend, split into vendors engaged as subcontractors and suppliers indicating their BBBEE rating including proof of the said rating</p> <p>F:..... V:.....T:.....</p> | Item | | |
| 82 | <p>Advertising rights</p> <p>The employer may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The contractor shall not prevent such an arrangement and will assist in the facilitation of same. The position and type of advertising structure to be agreed with the principal agent so as not to hinder the contractor in meeting his obligations under this agreement</p> <p>F:..... V:.....T:.....</p> | Item | | |
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|-----------------------------|---|------|---|--|
| 83 | <p>Confidentiality</p> <p>The contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all subcontractors and suppliers. Such information shall not be used in any way except in connection with the execution of the works</p> <p>No information regarding this project shall be published or disclosed without the prior written consent of the employer</p> <p>F:..... V:..... T:.....</p> | Item | | |
| 84 | <p>Media releases</p> <p>All rights of publication of articles in the media, together with any advertising relating thereto or in any way connected with this project, shall vest with the employer</p> <p>The contractor together with his subcontractors shall not, without the prior written consent of the employer, cause any statement or advertisement connected with this project to be printed, screened or aired by the media</p> <p>F:..... V:..... T:.....</p> <p><u>SUMMARY OF CATEGORIES</u></p> <p>Category : Fixed R.....</p> <p>Category : Value R.....</p> <p>Category : Time R.....</p> | Item | | |
| Carried to Collection | | | R | |
| Bill No. 1 Preliminaries | | | | |

[illegible]

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <p><u>BILL NO. 2</u></p> <p><u>ALTERATIONS (PROVISIONAL)</u></p> <p>Tenderers are referred to the Model Preambles for All Trades as published by the Association of South African Quantity Surveyors (Tel. 011-315 4140) and Structural Works Information before pricing this Bill of Quantities</p> | | | |
| | <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary items or materials</u></p> <p>Proprietary items or materials where specified are to be of the brand specified or other approved by the Representative / Agent</p> <p><u>Quantity split</u></p> <p>A - Block S & M</p> <p>B - Block N, CIDB & R</p> <p>C - Block PT1</p> <p>D - Budgetary Allowance</p> <p>E - Block B</p> <p>F- Block C</p> <p>G- Block O</p> <p><u>View site</u></p> <p>Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> | | | |
| | Carried to Collection | | | |
| | <p>Bill No. 2</p> <p>Alterations (Provisional)</p> | | | |
| | | | R | |

Damage to existing finishes

The Contractor will be held responsible for all damage, however caused, to existing finishes and fittings etc. and he must make good all damage at his own expense to the approval of the Principal Agent

Breaking down, demolition and alteration activities and tasks, hacking off of existing plaster, etc. is to be executed with care so as to prevent damage to remaining floor and wall surfaces and finishes (where these are to be retained). Tenders will be deemed to include allowance for any necessary protection of existing surfaces and structures as may be necessary to effect the above, as the cost of repairing damage to existing surfaces and structures will be solely for the Contractors account

Responsibility for site

The contractor is to note that upon possession of the site by himself, and extending until practical completion is achieved, he is solely responsible for the site, site security, general upkeep and cleaning of the site and all other responsibilities in maintaining a construction site in conformance with but not limited to, the Construction Regulations 2003, all local by-laws, all user client regulations, and all Client regulations and procedures. Tenderers are therefore urged to study all available material and to investigate fully the site and areas contiguous to the site, in order to determine the range and extent of responsibility. No additional monetary and/or time claims will be entertained in respect of the above

Explosives

No explosives whatsoever may be used for demolition purposes unless otherwise stated

General

The contract shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining buildings. He shall provide proper protection and provide, erect and remove when directed, any temporary tapaulins that may be necessary during the progress of the works, or to the satisfaction of the principal agent

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Bill No. 2
Alterations (Provisional)

R

Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent

Prices for taking out of doors, windows, etc. shall include for removal of all beads, architraves, ironmongery, etc

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc. and making good floor and wall finishes to match existing

With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc., shall be levelled and prepared for raising of brickwork

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary

The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc.)

Removal of materials

Where removal is included in the heading, sub-heading or item description, prices shall be deemed to include for the necessary costs in removal and appropriate disposal of materials including but not limited to labour, transportation and disposal costs. No further claims in this regard will be entertained

Working at heights

Bidders are to note that the work to be undertaken will require all necessary scaffolding, due to the heights of the structures to be constructed / altered. Bidders are to therefore price accordingly as rates will be deemed to include for same and no further claims in regard to all necessary scaffolding in the completion of the scope of works will be entertained.

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Bill No. 2
Alterations (Provisional)

R

REMOVAL OF EXISTING WORK

Taking down and removing roofs, floors, panelling, ceilings, partitions, etc

| | | | | | | | |
|---|--|----|-------|--|--|--|--|
| 1 | Pitched corrugated iron roof sheeting | m2 | 2 795 | | | | |
| | A : 1690 B : 390 C : 0 D : 0 | | | | | | |
| | E : 715 F : 0 G : 0 | | | | | | |
| 2 | 420 x 332mm Clay roof tiles on and including corrugated metal sheeting | m2 | 2 470 | | | | |
| | A : 2170 B : 0 C : 300 D : 0 | | | | | | |
| | E : 0 F : 0 G : 0 | | | | | | |

Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc

| | | | | | | | |
|---|--|----|-------|--|--|--|--|
| 3 | Average 70mm thick screed from concrete roof slab | m2 | 5 170 | | | | |
| | A : 2560 B : 1450 C : 830 D : 0 | | | | | | |
| | E : 330 F : 0 G : 0 | | | | | | |
| 4 | Hack up and remove existing torch-on type bituminous waterproofing to existing reinforced concrete roof slabs and beams including all sub-layers etc., aluminium roofing paint over and including hacking face/scarifying using mechanical means and preparing surface of roof slabs and beams to receive new waterproofing (new waterproofing elsewhere measured) | m2 | 5 470 | | | | |
| | A : 2560 B : 1450 C : 1130 D : 0 | | | | | | |
| | E : 330 F : 0 G : 0 | | | | | | |

Carried to Collection

Bill No. 2
Alterations (Provisional)

R

TEMPORARY ROOF PROTECTION

The Contractor will be held responsible for all damage, howsoever caused, to finishes inside rooms where the existing roof coverings have been removed and he must make good all damage at his own expense to the approval of the Employer

- | | | | |
|---|---|----|-------|
| 5 | Cover and maintain existing roofs in a perfectly watertight condition during alterations by means of heavy tarpaulins properly secured and maintained in position to the approval of the Employer and make good all work damaged or disturbed after completion (measured on flat) | m2 | 8 040 |
| | A : 4000 B : 1820 C : 1130 D : 0 | | |
| | E : 1090 F : 0 G : 0 | | |

MAKING GOOD OF FINISHES ETC

Making good screeds to falls

- | | | | |
|---|---|----|-------|
| 6 | On concrete roofs to falls, approximately 70mm thick average" | m2 | 5 470 |
| | A : 2560 B : 1450 C : 1130 D : 0 | | |
| | E : 330 F : 0 G : 0 | | |

Concrete spalling repairs - not exceeding 30mm thick

- | | | | |
|---|---|----|-------|
| 7 | Chip out all loose concrete, and thoroughly clean down using a high pressure hose to remove all dirt, debris, etc., cut all exposed edges to minimum 10mm depth, break out concrete 20mm below and 50mm beyond affected reinforcement, mechanically clean affected reinforcement, coat reinforcement with one coat "ProStruct 688" or other approved zinc rich primer at a rate of 4m2/ltr, dampen surfaces with water and apply "ProStruct 528" or other approved to concrete surfaces ensuring that repairs are kept damp for a minimum of 24 hours subsequent to application, all to the satisfaction of the Structural Engineer and in strict accordance with the manufacturer's instructions | m2 | 1 349 |
| | A : 666 B : 360 C : 217 D : 0 | | |
| | E : 107 F : 0 G : 0 | | |

Carried to Collection

Bill No. 2
Alterations (Provisional)

R

Concrete spalling repairs - exceeding 30mm thick

| | | | | | |
|---|---|----------------|-----|--|--|
| 8 | Chip out all loose concrete, and thoroughly clean down using a high pressure hose to remove all dirt, debris, etc., cut all exposed edges to minimum 10mm depth, break out concrete 20mm below and 50mm beyond affected reinforcement, mechanically clean affected reinforcement and coat reinforcement with one coat "Pro-Struct 688" or other approved zinc rich primer at a rate of 4m ² /ltr, dampen surfaces with water. Provide and install temporary formwork not exceeding 300mm wide to sides and soffits of area to be repaired, thoroughly wet the area and drain off all excess water, pour "Pro-Struct 531M" or other approved repair grout into shuttered area and leave in position for a minimum period of 24 hours. Strip formwork and clean down surface, and wet cure for a minimum period of 72 hours, all according to manufacturer's instructions and to the satisfaction of the Structural Engineer | m ² | 542 | | |
| | A : 266 B : 153 C : 87 D : 0 E : 36 F : 0 G : 0 | | | | |

Making good of precast concrete copings

| | | | | | |
|---|--|---|-----|--|--|
| 9 | Prepare surfaces of precast concrete copings to receive waterproofing (New waterproofing elsewhere measured) | m | 631 | | |
| | A : 0 B : 420 C : 0 D : 0 E : 211 F : 0 G : 0 | | | | |

Making good of metal railings, grids etc.

| | | | | | |
|----|--|----|-----|--|--|
| 10 | Make good existing metal barrier support stand and railing approximately 1500mm high including sanding to bare metal, applying one coat approved metal primer and three coats high gloss approved enamel paint | m | 112 | | |
| | A : 0 B : 0 C : 112 D : 0 E : 0 F : 0 G : 0 | | | | |
| 11 | Make good existing 1000mm x 2700mm Metal grating over balcony including sanding to bare metal, applying one coat approved metal primer and three coats high gloss approved enamel paint | No | 36 | | |
| | A : 0 B : 0 C : 0 D : 0 E : 36 F : 0 G : 0 | | | | |

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Making good of structural staircase

- 12 Make good existing Structural steel staircase with 16 x 165mm risers, 16 x 250mm treads and 175 x 75mm pfc stringer including sanding to bare metal, applying one coat approved metal primer and three coats high gloss approved enamel paint

Item

BUDGETARY ALLOWANCES

Specialist Test required by the Principal Agent

- 13 Allow the sum of R500,000.00 (Five Hundred Thousand Rand) for specialist test required by the Principal Agent.

Item

Structural repairs

- 14 Allow the sum of R1,200,000.00 (One Million Two Hundred Thousand Rand) for all specialist repairs to structural steelwork.

Item

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| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <p><u>BILL NO. 3</u></p> <p><u>WATERPROOFING</u></p> <p>Tenderers are referred to the Model Preambles for All Trades as published by the Association of South African Quantity Surveyors (Tel. 011-315 4140) and Structural Works Information before pricing this Bill of Quantities</p> | | | |
| | <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary items or materials</u></p> <p>Proprietary items or materials where specified are to be of the brand specified or other approved by the Representative / Agent</p> <p><u>Quantity split</u></p> <p>A - Block S & M</p> <p>B - Block N, CIDB & R</p> <p>C - Block PT1</p> <p>D - Budgetary Allowance</p> <p>E - Block B</p> <p>F- Block C</p> <p>G- Block O</p> <p><u>Waterproofing</u></p> <p>Waterproofing of roofs, basements, etc. shall be laid under a ten year maintenance free 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.</p> | | | |
| | Carried to Collection | | | |
| | Bill No. 3 Waterproofing | | R | |

Proprietary branded products

Proprietary branded products are to be applied in strict accordance with the manufacturers instructions. Should the manufacturers instructions be found not to have been followed in any process relating to the product in relation to, but not limited to transportation, application (rates and methodology), treatment of existing surfaces etc. then all liability for such product shall be transferred to the appointed Main Contractor.

Working at Heights

Bidders are to note that the work to be undertaken will require all necessary scaffolding, due to the heights of the structures to be constructed/altered. Bidders are to therefore price accordingly as rates will be deemed to include for same and No further claims in regard to all necessary scaffolding in the completion of the scope of works will be entertained."

DAMP-PROOFING OF WALLS AND FLOORS

One layer "abedex V-SR 3mm" or other approved non-woven polyester reinforced or equally approved waterproofing membrane, with 100mm side laps and 150mm end laps, sealed to primed surface to falls and cross falls by "torch-fusion". Apply second layer " abedex unigum 4 mm or abedex unigum MS 4,5 kg", ensuring both layers are fully bonded by means of 'torch on fusion' using propane gas, having side and end laps are to be 100 mm and 150 mm respectively finished with one coat centre bitumen primer and two coats bituminous aluminium paint (or equally approved). waterproofing to be installed by an approved "a.b.e" contractor under a 10 year maintenance free guarantee

| | | | |
|---|---|----|-------|
| 1 | On concrete roof slab including turn ups | m2 | 5 470 |
| | A : 2560 B : 1450 C : 1130 D : 0 | | |
| | E : 330 F : 0 G : 0 | | |
| 2 | On concrete roof beams | m2 | 208 |
| | A : 195 B : 0 C : 7 D : 0 | | |
| | E : 6 F : 0 G : 0 | | |
| 3 | On precast concrete copings | m2 | 183 |
| | A : 0 B : 126 C : 0 D : 0 | | |
| | E : 57 F : 0 G : 0 | | |

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Bill No. 3
Waterproofing

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| | | | |
|---|---|----|-------|
| 4 | On reinforced 150mm high acrylic termination flashing A : 14 B : 16 C : 6 D : 0 E : 5 F : 0 G : 0 <u>PROTECTIVE ROOFING PAINT</u> <u>Two coats "Silvakote" or equally approved</u> <u>bituminous aluminium paint</u> | m2 | 40 |
| 5 | On waterproofing to concrete roof slab including turn ups A : 2560 B : 1450 C : 1130 D : 0 E : 330 F : 0 G : 0 <u>Two coats heavy duty acrylic emulsion paint</u> | m2 | 5 470 |
| 6 | On waterproofing to box gutters A : 0 B : 12 C : 0 D : 0 E : 72 F : 0 G : 0 <u>JOINT SEALANTS ETC</u> <u>Two-part grey polysulphide sealing compound</u> <u>including backing cord, bond breaker, primer, etc</u> | m2 | 84 |
| 7 | 3 x 10mm In expansion joints in soffits including raking out expansion joint filler as necessary A : 250 B : 472 C : 226 D : 0 E : 71 F : 0 G : 0 | m | 1 019 |

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Waterproofing

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Waterproofing

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Waterproofing

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| | <p><u>BILL NO. 4</u></p> <p><u>ROOF COVERINGS ETC</u></p> <p>Tenderers are referred to the Model Preambles for All Trades as published by the Association of South African Quantity Surveyors (Tel. 011-315 4140) and Structural Works Information before pricing this Bill of Quantities</p> | | | |
| | <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary items or materials</u></p> <p>Proprietary items or materials where specified are to be of the brand specified or other approved by the Representative / Agent</p> <p><u>Quantity split</u></p> <p>A - Block S & M</p> <p>B - Block N, CIDB & R</p> <p>C - Block PT1</p> <p>D - Budgetary Allowance</p> <p>E - Block B</p> <p>F- Block C</p> <p>G- Block O</p> <p><u>Sheeting</u></p> <p>The roof sheeting shall be 0.55mm thick full hard IBR profile galvanised mild steel or other approved roof sheets, roll formed in continuous lengths and cut to length by a pneumatic cut-off process. A certificate verifying compliance to all current SANS codes in respect to galvanised sheeting shall be issued by the manufacturer</p> <p><u>Finishing of sheets</u></p> <p>The paint finish shall be colour plus on one side and standard grey finish on the other side</p> | | | |
| | Carried to Collection | | | |
| | Bill No. 4 Roof Coverings | | R | |

Fixing of sheets

The roof sheeting shall be laid in long lengths, narrow flutes outermost, with single flute sidelaps facing away from prevailing wind. All sheets shall be secured to timber purlins utilising approved roofing screws in strict accordance to the manufacturers instructions. Sheeting is to be drilled and not punched, with side laps filled with approved Mastic sealant. Sheeting is to protrude a minimum of 50mm from ends of rafters

Flashings

Flashings shall be approved by the manufacturer and fixed to the sheeting with approved fixings. Prior to flashings being fixed, all troughs at the apex shall be stop-ended to the full depth of the sheet in order to prevent any penetration of wind driven water. The trough shall be lipped at the eaves end to form a drip. Flashing flanges shall be notched to the sheet profile where necessary. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surface in order to prevent steel spatter from penetrating colour coated areas

Erection

Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, shall be replaced, at no additional cost to the contract

Safety

The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity

Guarantee

The manufacturer shall comply with ISO9002 Quality Management System. Sheeting shall be laid in strict accordance with manufacturers specifications by an approved contractor. A written and approved five (5) year guarantee of site workmanship and water tightness shall be issued after final inspection of roof sheets by the manufacturer

Carried to Collection

Bill No. 4
Roof Coverings

R

PROFILED METAL SHEETING AND ACCESSORIES

0.55mm Thick galvanized continuous IBR profile metal sheeting with 'Colour Plus' finish on one side and standard grey finish on the other side

| | | | | | |
|---|--|----|-------|--|--|
| 1 | Roof covering with pitch not exceeding 25 degrees A : 1806 B : 572 C : 0 D : 0 E : 534 F : 0 G : 0 | m2 | 2 912 | | |
| 2 | Roof covering with pitch exceeding 25 degrees A : 0 B : 0 C : 0 D : 0 E : 386 F : 0 G : 0 | m2 | 386 | | |
| 3 | 0.55mm Thick metal sheeting : Moulded narrow and broad rib polyethelene filler blocks A : 220 B : 63 C : 0 D : 0 E : 89 F : 0 G : 0 | m | 372 | | |
| 4 | 300m Vertical counter flashing A : 85 B : 106 C : 38 D : 0 E : 38 F : 0 G : 0 | m | 267 | | |
| 5 | Ridge capping 300mm girth A : 0 B : 0 C : 0 D : 0 E : 78 F : 0 G : 0 | m | 78 | | |

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Bill No. 4

Roof Coverings

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Bill No. 4
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| <p><u>BILL NO. 5</u></p> <p><u>PLASTERING</u></p> <p>Tenderers are referred to the Model Preambles for All Trades as published by the Association of South African Quantity Surveyors (Tel. 011-315 4140) and Structural Works Information before pricing this Bill of Quantities</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary items or materials</u></p> <p>Proprietary items or materials where specified are to be of the brand specified or other approved by the Representative / Agent</p> <p><u>Quantity split</u></p> <p>A - Block S & M</p> <p>B - Block N, CIDB & R</p> <p>C - Block PT1</p> <p>D - Budgetary Allowance</p> <p>E - Block B</p> <p>F- Block C</p> <p>G- Block O</p> <p><u>Method</u></p> <p>The method to be used shall be either the monolithic method or the bonded method</p> | | | |
| <p>Carried to Collection</p> | | | |
| <p>Bill No. 5 Plastering</p> | | | |

Preparation

For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc. is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic

Mix

Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic

Panels

Granolithic shall be laid in panels not exceeding 14m² for monolithic finishes, not exceeding 9,5m² for bonded finishes and not exceeding 6m² for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width

Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints

Laying

Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels

Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels

Carried to Collection

Bill No. 5
Plastering

R

After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated

Curing, seasoning and protection

Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying

Colour

Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour

SCREEDS

Screeds power floated on concrete

| | | | |
|---|---|----|-------|
| 1 | Average 70mm thick on concrete roof slabs to falls A : 2560 B : 1450 C : 830 D : 0 E : 330 F : 0 G : 0 | m2 | 5 170 |
| 2 | 100mm High screed fillet A : 330 B : 420 C : 122 D : 0 E : 100 F : 0 G : 0 | m | 972 |
| 3 | 250mm High benching A : 512 B : 420 C : 0 D : 0 E : 240 F : 0 G : 0 | m | 1 172 |

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Bill No. 5
Plastering

| Item No | Quantity | Rate | Amount |
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| <p><u>BILL NO. 6</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p><u>(PROVISIONAL)</u></p> <p>Tenderers are referred to the Model Preambles for All Trades as published by the Association of South African Quantity Surveyors (Tel. 011-315 4140) and the Architectural and Structural Works Information before pricing this Bill of Quantities</p> | | | |
| <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>uPVC pressure pipes and fittings:</u></p> <p>Pipes for water supply shall be of the class stated</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p> <p>Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints</p> <p>Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p>All pipe diameters are nominal external</p> <p>All pipe connections to discharge vent to be determined on site.</p> | | | |
| Carried to Collection | | R | |
| Bill No. 6 Plumbing (Provisional) | | | |

Quantity split

A - Block S & M

B - Block N, CIDB & R

C - Block PT1

D - Budgetary Allowance

E - Block B

F- Block C

G- Block O

Fixing of pipes

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

Reducing fittings

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

Wire gratings

Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings

Exposed concrete surfaces

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

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Bill No. 6
Plumbing (Provisional)

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

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

WATER DISPOSAL

uPVC pipes

- | | | | |
|---|---|---|-----|
| 1 | 110mm Pipes suspended exceeding 500mm and not exceeding 1m below suspension level | m | 127 |
|---|---|---|-----|

| | | | |
|-------|---------|-------|-------|
| A : 0 | B : 0 | C : 0 | D : 0 |
| E : 0 | F : 127 | G : 0 | |

Extra over uPVC pipes for fittings

- | | | | |
|---|--------------------------|----|---|
| 2 | 110mm Elbow (45 degrees) | No | 2 |
|---|--------------------------|----|---|

| | | | |
|-------|-------|-------|-------|
| A : 0 | B : 0 | C : 0 | D : 0 |
| E : 0 | F : 2 | G : 0 | |

- | | | | |
|---|-------------------------|----|---|
| 3 | 110mm Bend (90 degrees) | No | 6 |
|---|-------------------------|----|---|

| | | | |
|-------|-------|-------|-------|
| A : 0 | B : 0 | C : 0 | D : 0 |
| E : 0 | F : 6 | G : 0 | |

- | | | | |
|---|-----------------------------|----|---|
| 4 | 110mm Junction (45 degrees) | No | 4 |
|---|-----------------------------|----|---|

| | | | |
|-------|-------|-------|-------|
| A : 0 | B : 0 | C : 0 | D : 0 |
| E : 0 | F : 4 | G : 0 | |

- | | | | |
|---|---------------|----|---|
| 5 | 110mm End cap | No | 2 |
|---|---------------|----|---|

| | | | |
|-------|-------|-------|-------|
| A : 0 | B : 0 | C : 0 | D : 0 |
| E : 0 | F : 2 | G : 0 | |

Extra over floor drain or similar approved

- | | | | |
|---|---|----|---|
| 6 | HB280V Floor drain or similar approved. Seal installation and close with non-shrink 'Sikagrout-212 or similar approved cementious grout | No | 6 |
|---|---|----|---|

| | | | |
|-------|-------|-------|-------|
| A : 0 | B : 0 | C : 0 | D : 0 |
| E : 0 | F : 6 | G : 0 | |

Sundries

- | | | | |
|---|-------------------------|----|---|
| 7 | 110mm uPVC cleaning eye | No | 2 |
|---|-------------------------|----|---|

| | | | |
|-------|-------|-------|-------|
| A : 0 | B : 0 | C : 0 | D : 0 |
| E : 0 | F : 2 | G : 0 | |

Carried to Collection

Bill No. 6
Plumbing (Provisional)

R

| | | | | | |
|--------------------------------------|---|----|------|---|--|
| 8 | Cutting into existing 110mm drain pipe for and forming junction with 110mm pipe | No | 2 | | |
| | A : 0 B : 0 C : 0 D : 0 | | | | |
| | E : 0 F : 2 G : 0 | | | | |
| 9 | Testing drainage pipe system | | Item | | |
| | A : 0.00 B : 0.00 C : 0.00 D : 0.00 | | | | |
| | E : 0.00 F : 1.00 G : 0.00 | | | | |
| Carried to Collection | | | | | |
| | | | | R | |
| Bill No. 6 Plumbing (Provisional) | | | | | |

CORE DRILLING AND HOLES ETC

Core drilling of hole for pipe exceeding 250mm and not exceeding 300mm diameter

| | | | | | |
|--------------------------------------|--|----|---|---|--|
| 10 | 280mm Core drilled in reinforced concrete slab, beam, wall, etc not exceeding 300mm thick A : 0 B : 0 C : 0 D : 0 E : 0 F : 6 G : 0 | No | 6 | | |
| 11 | 280mm Core drilled in reinforced concrete slab, beam, wall, etc exceeding 300mm thick not exceeding 450mm thick A : 0 B : 0 C : 0 D : 0 E : 0 F : 6 G : 0 | No | 6 | | |
| Carried to Collection | | | | R | |
| Bill No. 6 Plumbing (Provisional) | | | | | |

Bill No. 6

Plumbing (Provisional)

COLLECTION

Total Brought Forward from Page No.

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No**

Amount

44

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Carried to Summary

R

Bill No. 6
Plumbing (Provisional)

| Item No | Quantity | Rate | Amount |
|--|----------|------|------------|
| <u>BILL NO. 7</u> | | | |
| <u>BUDGETARY ALLOWANCES</u> | | | |
| Tenderers are referred to the Model Preambles for All Trades as published by the Association of South African Quantity Surveyors (Tel. 011-315 4140) and Structural Works Information before pricing this Bill of Quantities | | | |
| <u>Temporary removal of existing services (work to be done by a Direct Contractor)</u> | | | |
| 1 | Item | | 900 000.00 |
| Provide the amount of R 900,000.00 (Nine Hundred Thousand Rand) for the temporary removal and reinstatement of existing services where necessary as directed by the Principal Agent | | | |
| <u>Inspection, servicing and replacement of fullbores</u> | | | |
| 2 | Item | | 250 000.00 |
| Provide the amount of R 250,000.00 (Two Hundred and Fifty Thousand Rand) for the inspection, servicing, testing, etc, of existing fullbores where necessary as directed by the Principal Agent | | | |
| <u>Repairs and refurbishments to existing rainwater goods</u> | | | |
| 3 | Item | | 100 000.00 |
| Provide the amount of R 100,000.00 (One Hundred Thousand Rand) for the repairs and refurbishments of existing rainwater goods as directed by the Principal Agent. | | | |
| <u>Sundry structural works</u> | | | |
| 4 | Item | | 750 000.00 |
| Provide the amount of R 750,000.00 (Seven Hundrad and Fifty Thousand Rand) for sundry structural works as directed by the Principal Agent. | | | |
| Carried to Summary | | | |
| Bill No. 7 | | | |
| Budgetary Allowances | | | |

[illegible]