

C2.2: BILL OF QUANTITIES

The priced Bill of Quantities (BOQ's), following hereafter will form an integral part of the "Contract" between the successful appointed Contractor and the Employer.

It is compulsory for the Tenderer to complete the Bill of Quantities in full. Failure to complete the Bill of Quantities in full be disqualified.

| Item No | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>BUILDING AGREEMENT AND PRELIMINARIES</u></p> <p>The JBCC Series 2000 Edition 4.1 Code 2101 March 2005 2005 edition prepared by the Joint Building Contracts Committee, shall be the agreement, amended as hereinafter described</p> <p>The Preliminaries for use with the JBCC Series 2000 Principal Building Agreement (May 2005 edition) prepared by the Joint Building Contracts Committee, shall be deemed to be incorporated in these bills of quantities</p> <p>Contractors are referred to the above-mentioned documents for the full intent and meaning of each clause thereof</p> <p>These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the above-mentioned documents</p> <p>Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"</p> <p>Notwithstanding anything to the contrary contained in any of the contract documents including the Principal Building Agreement and the Preliminaries, the provision of the "Preliminaries" as hereinafter set forth shall prevail and shall take precedence</p> <p><u>PREAMBLES FOR TRADES</u></p> <p>The Model Preambles for Trades (1999 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained</p> <p style="text-align: right;">Carried Forward</p> <p>Bill No. 1 Preliminaries and General Items</p> | | | R |

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| <p>Supplementary preambles to the Model Preambles covering clauses of a general nature, clauses pertaining to specific materials and amendments to clauses in the Model Preambles are incorporated in these bills of quantities to satisfy the requirements of this project</p> <p>The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles</p> <p><u>GENERAL</u></p> <p>If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories "F", "T" or "V" as the case may be below such item, where "F" denotes a fixed amount (amount not to be varied), "T" denotes an amount variable in proportion to time and "V" denotes an amount variable in proportion to value</p> <p><u>SECTION A - PRINCIPAL BUILDING AGREEMENT</u></p> <p><u>Definitions (A1)</u></p> <p>1 Definitions and interpretation (clause 1)</p> <p>F:..... V:..... T:.....</p> <p><u>Objective and Preparation (A2 to A14)</u></p> <p>2 Offer acceptance and performance (clause 2)</p> <p>F:..... V:..... T:.....</p> <p>3 Documents (clause 3)</p> <p>F:..... V:..... T:.....</p> | | <p>Item</p> <p>Item</p> <p>Item</p> |
| Carried Forward | | R |
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| <p>4 Design responsibility (clause 4)</p> <p>F:..... V:..... T:.....</p> | Item | |
| <p>5 Employer's agents (clause 5)</p> <p>F:..... V:..... T:.....</p> <p>The principal agent shall:</p> <ul style="list-style-type: none"> - monitor and control progress and scheduling - monitor all contract conditions, and - coordinate the efforts of the employer's agents, the contractor and subcontractors <p>The powers conferred on the principal agent in terms of this clause and/or the exercising of these powers shall not be construed as removing or diminishing any of the obligations of the Contractor in terms of the Principal Building Agreement, whether financial, contractual or otherwise, nor shall the exercising of these powers create any privity of contract as between the Employer or his agents on the one part and the Contractor or subcontractors or suppliers on the other part</p> <p>The principal agent reserves the right to attend and participate in all contractor/subcontractor's meetings, to invite other employer's agents to attend such meetings at his discretion and to converse and chair any such meetings if the contractor is derelict in his duty in arranging such meetings to the degree of frequency and comprehensiveness dictated in the opinion of the project manager by the circumstances and exigencies of the construction process</p> | Item | |
| <p>6 Site representative (clause 6)</p> <p>F:..... V:..... T:.....</p> | Item | |
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| 7 | Compliance with regulations (clause 7) F:..... V:..... T:..... | Item |
| 8 | Works risk (clause 8) F:..... V:..... T:..... | Item |
| 9 | Indemnities (clause 9) F:..... V:..... T:..... | Item |
| 10 | Works insurances (clause 10) F:..... V:..... T:..... | Item |
| 11 | Liability insurances (clause 11) F:..... V:..... T:..... | Item |
| 12 | Effecting insurance (clause 12) F:..... V:..... T:..... | Item |
| 13 | NO CLAUSE | N/A |
| 14 | Security (clause 14) F:..... V:..... T:..... | Item |
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| <u>Execution (A15-A23)</u> | | |
| 15 | Preparation for and execution of the works (clause 15) F:..... V:..... T:..... | Item |
| 16 | Access to the works (clause 16) F:..... V:..... T:..... | Item |
| 17 | Contract instructions (clause 17) F:..... V:..... T:..... | Item |
| 18 | Setting out of the works (clause 18) F:..... V:..... T:..... The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc exist in order that the necessary arrangements may be made for the rectification of any such encroachments | Item |
| 19 | Assignment (clause 19) F:..... V:..... T:..... The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer | Item |
| 20 | Nominated subcontractors (clause 20) F:..... V:..... T:..... | Item |
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| 21 | <p>Selected subcontractors (clause 21)</p> <p>F:..... V:..... T:.....</p> <p>Written proof is required from subcontract tenderers at tendering that they can meet the JBCC Selected Subcontract Agreement or other tender agreements and provide security in terms of the agreement. If the above is not provided the tender may not be accepted</p> <p>All amounts allowed under Provisional Amounts are intended to be awarded to Selected Subcontractors</p> | Item |
| 22 | <p>Employer's Direct Contractors (clause 22)</p> <p>F:..... V:..... T:.....</p> | Item |
| 23 | <p>Contractor's Domestic Sub-Contractors (Clause 23)</p> <p>F:..... V:..... T:.....</p> | Item |
| <u>Completion (A24-A30)</u> | | |
| 24 | <p>Practical completion (clause 24)</p> <p>F:..... V:..... T:.....</p> | Item |
| 25 | <p>Works completion (clause 25)</p> <p>F:..... V:..... T:.....</p> | Item |
| 26 | <p>Final completion (clause 26)</p> <p>F:..... V:..... T:.....</p> | Item |
| Carried Forward | | R |
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| 27 | Latent defects liability period (clause 27) F:..... V:..... T:..... | Item |
| 28 | Sectional completion (clause 28) F:..... V:..... T:..... | Item |
| 29 | Revision of date of practical completion (clause 29) F:..... V:..... T:..... The removal and replacement of materials and/or workmanship that do not conform to specification or drawings shall not constitute grounds for an extension of the construction period nor for an adjustment to the contract sum (clause 29.3) | Item |
| 30 | Penalty for non-completion (clause 30) F:..... V:..... T:..... | Item |
| Payment (A31 - A35) | | |
| 31 | Interim payment to the contractor (clause 31) F:..... V:..... T:..... | Item |
| 32 | Adjustment to the contract value (clause 32) F:..... V:..... T:..... | Item |
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| | <p>Where prices are submitted by the contractor or nominated/selected subcontractors during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract 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 final certificate, it will be in writing</p> | |
| 33 | <p>Recovery of expense and loss (clause 33)</p> <p>F:..... V:..... T:.....</p> | Item |
| 34 | <p>Final account and final payment (clause 34)</p> <p>F:..... V:..... T:.....</p> <p>The employer shall not pay any interest on amounts payable to the contractor for one hundred and forty two (142) days after the date of issue of the certificate of practical completion</p> <p>The employer shall, however, pay interest to the contractor at the rate stipulated in clause 34.11 on any amounts payable to the contractor more than one hundred and forty two (142) days after the date of issue of the certificate of practical completion but only for such period as the settlement of the final account is delayed by the non-performance of the principal agent or the employer or his agents. In evaluating non-performance for purposes of this clause a reasonable time shall be allowed to the employer or his agents to respond to any matter brought to his/their attention and which may affect the settlement of the final account</p> | Item |
| 35 | <p>Payment to other parties (clause 35)</p> <p>F:..... V:..... T:.....</p> | Item |
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| Brought Forward | | R |
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| <u>Cancellation (A36-A39)</u> | | |
| 36 | Cancellation by employer - contractor's default (clause 36) F:..... V:..... T:..... | Item |
| 37 | Cancellation by employer - loss and damage (clause 37) F:..... V:..... T:..... | Item |
| 38 | Cancellation by contractor - employer's default (clause 38) F:..... V:..... T:..... | Item |
| 39 | Cancellation - cessation of the works (clause 39) F:..... V:..... T:..... | Item |
| <u>Dispute (A40)</u> | | |
| 40 | Dispute Settlement (clause 40) F:..... V:..... T:..... | Item |
| <u>Substitute Provisions (A41)</u> | | |
| 41 | State clauses (Clause 41) F:..... V:..... T:..... Information necessary for the completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder | Item |
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| <u>THE SCHEDULE</u> | | |
| Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder | | |
| 42 | Pre-tender information (clause 42) F:..... V:..... T:..... | Item |
| <u>42.1 CONTRACTING AND OTHER PARTIES</u> | | |
| 42.1.1 Employer: As per infomation on the tender data | | |
| 42.1.2 Principal Agent: As per the infomation on the Tender data | | |
| 42.1.3 Architect: Afro Architectural | | |
| 42.1.4 Quantity Surveyor: | | |
| Structural : | | |
| 42.1.5 Civil: | | |
| 42.1.6 Electrical Engineer: | | |
| 42.1.6 Mechanical Engineer: | | |
| Carried Forward | | R |
| Bill No. 1 Preliminaries and General Items | | |

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| 42.2 CONTRACT DETAILS | |
| 42.2.1 Works Description: Construction of sanitation facilities | |
| 42.2.2 Site Description: as per the infomation on the tender data | |
| 42.2.3 Work or installations by direct contractors: N/A | |
| 42.2.4 This agreement is for a government contract where there are specific options that are applicable to a State organ only Yes | |
| 42.2.5 Date on which possession of the site is intended to be given: UNKNOWN | |
| 42.2.6 Period for the commencement of the works after the contractor takes posse | |
| 42.2.7 For the works as a whole . Intended date of practical completion and the penalty per calendar day 2 months after contractual commencement date <i>Date</i> <i>Penalty Amount</i> <i>The penalty per calender day shall be 0.05% of the tendered amount (inclusive of value added tax)</i> | |
| Carried Forward | R |
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| 42.2.8 For the works in sections : Intended date of practical completion and the penalty per calender day | |
| Section 1 | |
| .N/A..... Date | |
| R.N/A..... Penalty Amount | |
| 42.2.9 The law applicable to this agreement shall be that of | |
| <i>South Africa (country)</i> | |
| <u>42.3 INSURANCES</u> | |
| 42.3.1 Contract works insurance to be effected by: | |
| <i>Contractor:</i> | |
| <i>For the Sum of R Contract Amount + 20.00 %</i> | |
| <i>With a deductible of - to be determined by the contractor</i> | |
| 42.3.2 Supplementary insurance is required | |
| <i>No</i> | |
| 42.3.3 Public liability insurance to be effected by: | |
| <i>Contractor:</i> | |
| <i>For the Sum of R 2 500 000-00</i> | |
| <i>With a deductible of - to be determined by the contractor</i> | |
| <u>42.4 DOCUMENTS</u> | |
| 42.4.1 Waivers of contractors lien or right of continuing possession is required | |
| <i>Yes</i> | |
| 42.4.2 Number of construction document copies to be supplied to the contractor free of charge: | |
| <i>3 Number of</i> | |
| Carried Forward | R |
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| <p>42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: “Standard System of Measuring Builders’ Work”</p> <p>42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days</p> <p style="text-align: right;"><i>The priced bills of quantities must be handed in with the tender</i></p> <p>42.4.5 JBCC Engineering General Conditions are to be included in the contract documents:</p> <p style="text-align: right;">No</p> <p>42.4.6 The contract value is to be adjusted using escalation adjustment indices</p> <p style="text-align: right;">Yes</p> <p style="text-align: center;">Where JBCC CPAP is to be used <i>Base Month</i> July 2010</p> <p>42.4.7 Details of changes made to the provision of JBCC standard documentation:</p> | | |
| <u>SECTION B: PRELIMINARIES</u> | | |
| <u>Definitions and interpretation (B1)</u> | | |
| 43 | Definition and interpretation (B1.1 - B1.4.6) F:..... V:..... T:..... | Item |
| <u>Documents (B2)</u> | | |
| 44 | Checking of documents (B2.1) F:..... V:..... T:..... | Item |
| Carried Forward | | R |
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| 45 | Provisional bills of quantities (B2.2) F:..... V:..... T:..... | N/A |
| 46 | Availability of construction documentation (B2.3) F:..... V:..... T:..... | Item |
| 47 | Interests of agents (B2.4) F:..... V:..... T:..... | Item |
| 48 | Priced documents (B2.5) F:..... V:..... T:..... | Item |
| 49 | Tender submission (B2.6) F:..... V:..... T:..... | Item |
| 50 | Defined works area (B3.1) F:..... V:..... T:..... | Item |
| <u>The site (B3)</u> | | |
| 51 | Geotechnical investigation (B3.2) F:..... V:..... T:..... | Item |
| 52 | Inspection of the site (B3.3) F:..... V:..... T:..... | Item |
| Carried Forward | | R |
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| | Existing premises occupied (B3.4) | |
| | F:..... V:..... T:..... | |
| | Previous work - dimensional accuracy (B3.5) | |
| | F:..... V:..... T:..... | |
| | Previous work - defects (B3.6) | |
| | F:..... V:..... T:..... | |
| 53 | Services - known (B3.7) | |
| | F:..... V:..... T:..... | Item |
| 54 | Services - unknown (B3.8) | |
| | F:..... V:..... T:..... | Item |
| 55 | Protection of trees etc (B3.9) | |
| | F:..... V:..... T:..... | Item |
| 56 | Articles of value (B3.10) | |
| | F:..... V:..... T:..... | Item |
| Carried Forward | | R |
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| Brought Forward | | R |
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| <u>Management of contract (B4)</u> | | |
| 57 | Inspection of adjoining properties etc (B3.11) F:..... V:..... T:..... | Item |
| 58 | Management of the works (B4.1) F:..... V:..... T:..... | Item |
| 59 | Programme for the works (B4.2) F:..... V:..... T:..... | Item |
| 60 | Progress meetings (B4.3) F:..... V:..... T:..... | Item |
| 61 | Technical meetings (B4.4) F:..... V:..... T:..... | Item |
| 62 | Labour and Plant records (B4.5) F:..... V:..... T:..... | Item |
| <u>Samples, Shop Drawings and Manufacturer's Instructions (B5)</u> | | |
| 63 | Samples of materials (B5.1) F:..... V:..... T:..... | Item |
| Carried Forward | | R |
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| Brought Forward | | R |
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| 64 | Workmanship samples (B5.2) F:..... V:..... T:..... | Item |
| 65 | Shop drawings (B5.3) F:..... V:..... T:..... | Item |
| 66 | Compliance with Manufacturer's Instructions (B5.4) F:..... V:..... T:..... | Item |
| <u>Temporary works and plant (B6)</u> | | |
| 67 | Deposits and fees (B6.1) F:..... V:..... T:..... | Item |
| 68 | Enclosure of the works (B6.2) F:..... V:..... T:..... | Item |
| 69 | Advertising (B6.3) F:..... V:..... T:..... | Item |
| 70 | Plant, equipment, sheds and offices (B6.4) F:..... V:..... T:..... | Item |
| 71 | Main notice board (B6.5) F:..... V:..... T:..... | Item |
| Carried Forward | | R |
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| Brought Forward | | R |
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| 72 | Subcontractors' notice board (B6.6) F:..... V:..... T:..... | N/A |
| <u>Temporary services (B7)</u> | | |
| 73 | Location (B7.1) F:..... V:..... T:..... | Item |
| 74 | Water (B7.2) Option [A] shall apply F:..... V:..... T:..... | Item |
| 75 | Electricity (B7.3) Option [A] shall apply F:..... V:..... T:..... | Item |
| 76 | Telecommunication facilities (B7.4) F:..... V:..... T:..... | Item |
| 77 | Ablution facilities (B7.5) Option [A] shall apply F:..... V:..... T:..... | Item |
| <u>Prime cost amounts (B8)</u> | | |
| 78 | Responsibility for prime cost amounts (B8.1) F:..... V:..... T:..... | Item |
| Carried Forward | | R |
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| Brought Forward | | R |
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| <u>Attendance on N/S Subcontractors (B9)</u> | | |
| 79 | General attendance (B9.1) F:..... V:..... T:..... | Item |
| 80 | Special attendance (B9.2) F:..... V:..... T:..... | Item |
| 81 | Commissioning - Fuel, water and power (B9.3) F:..... V:..... T:..... | Item |
| <u>Financial aspects (B10)</u> | | |
| | Statutory taxes, duties and levies (B10.1) F:..... V:..... T:..... | Item |
| 82 | Payment of preliminaries (B10.2) Option [B] shall apply F:..... V:..... T:..... | Item |
| 83 | Adjustment of preliminaries (B10.3) Option [A] shall apply F:..... V:..... T:..... | Item |
| 84 | Payment certificate cash flow (B10.4) F:..... V:..... T:..... | Item |
| Carried Forward | | R |
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| <u>General (B11)</u> | | |
| 85 | Protection of works (B11.1) F:..... V:..... T:..... | Item |
| 86 | Protection/isolation of existing/sectionally occupied works (B11.2) F:..... V:..... T:..... | Item |
| 87 | Security of the Works (B11.3) F:..... V:..... T:..... | Item |
| 88 | Notice before covering work (B11.4) F:..... V:..... T:..... | Item |
| 89 | Disturbance (B11.5) F:..... V:..... T:..... | Item |
| 90 | Environmental Disturbance (B11.6) F:..... V:..... T:..... | Item |
| 91 | Works cleaning and clearing (B11.7) F:..... V:..... T:..... | Item |
| 92 | Vermin (B11.8) F:..... V:..... T:..... | Item |
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| 93 | Overhand work (B11.9) F:..... V:..... T:..... | Item |
| 94 | Instruction manuals and guarantees (B11.10) F:..... V:..... T:..... | Item |
| 95 | As built information (B11.11) F:..... V:..... T:..... | Item |
| 96 | Tenant Installations (B11.12) F:..... V:..... T:..... | Item |
| <u>Schedule of variables (B12)</u> | | |
| 97 | Pre-tender information (B12.1) F:..... V:..... T:..... | Item |
| | 12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional: No | |
| | 12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete No | |
| | 12.1.3 Interest of agents (B2.4) | |
| | 12.1.4 Defined works area (B3.1) | |
| | 12.1.5 Geotechnical investigation (B3.2) | |
| | N/A | |
| Carried Forward | | R |
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| 12.1.6 Existing premises occupied (B3.4) | | |
| 12.1.7 Previous work - dimensional accuracy (B3.4) | | |
| 12.1.8 Previous work - defects (B3.5) | | |
| 12.1.9 Services - known (B3.7) | | |
| 12.1.10 Protection of trees (B3.9) | | |
| All trees should be protected and only on instruction of the Principal Agent may any trees be removed | | |
| 12.1.12 Enclosure of the works (B6.2) | | |
| 12.1.11 Inspection of adjoining properties (B3.11) | | |
| 12.1.13 Offices (B6.4.3) | | |
| An office for the clerck of works should be provided | | |
| 12.1.14 Main notice board (B6.5) | YES | |
| 12.1.15 Subcontractors notice board (B6.6) | | |
| A notice board is required | | No |
| 12.1.16 Water (B7.2) | | |
| Alternative Selected: A | | |
| 12.1.17 Electricity (B7.3) | | |
| Alternative selected: A | | |
| 12.1.18 Telecommunications (B7.4) | | |
| Carried Forward | | R |
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| Brought Forward | R | |
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| 12.1.19 Ablution facilities (B7.5) Alternative selected: A | | |
| 12.1.20 Protection of existing/sectionally occupied works (B11.2) | | |
| 12.1.21 Special attendance (B9.2) | | |
| Subcontractor (1) details: | | |
| N/A | | |
| 12.1.22 Protection of the works (B11.1) | | |
| N/A | | |
| 12.1.23 Disturbance (B11.5) | | |
| N/A | | |
| 12.1.24 Environmental Disturbance (B11.6) | | |
| N/A | | |
| <u>Post tender information (B12.2)</u> | | |
| 12.2.1 Payment of preliminaries Alternative selected: B | | |
| 12.2.2 Adjustment of preliminaries Alternative selected: A | | |
| 12.2.3 Additional agreed preliminaries items N/A | | |
| <u>SECTION C: SPECIFIC PRELIMINARIES</u> | | |
| Any special items to meet the particular circumstances of a specific project are embodied in this section. Where required for an aspect of the works to be executed according to a design by a consulting engineer, a recital of the headings to the individual clauses of the JBCC Engineering General Conditions are included | | |
| Carried Forward | R | |
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| <p>98 Site instructions</p> <p>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</p> <p>F: V: T:</p> | Item | |
| <p>99 Black economic empowerment and training</p> <p>F: V: T:</p> | Item | |
| <p>100 Proprietary branded products</p> <p>F: V: T:</p> | Item | |
| <p>101 Testing of flat roof waterproofing for watertightness</p> <p>Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing</p> <p>F: V: T:</p> <p>The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative</p> | Item | |
| <p>102 Contract instructions</p> <p>F: V: T:</p> <p>Contract instructions issued on site are to be recorded in triplicate in a contract instruction book which is to be supplied and maintained on site by the contractor</p> | Item | |
| Carried Forward | | R |
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| Brought Forward | | R |
|--|------|---|
| <p>103 Labour record</p> <p>F:..... V:..... T:.....</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 and descriptions of tradesmen and labourers employed by him and all subcontractors on the works each day of that week</p> | Item | |
| <p>104 Plant record</p> <p>F:..... V:..... T:.....</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 used on the works each day of that week</p> | Item | |
| <p>105 Guarantees</p> <p>F:..... V:..... T:.....</p> | Item | |
| Carried Forward | | R |
| <p>Bill No. 1 Preliminaries and General Items</p> | | |

| Brought Forward | | R |
|---|--|------|
| | <p>Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor. The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement</p> | |
| 106 | <p>Overtime</p> <p>F:..... V:..... T:.....</p> <p>Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer</p> | Item |
| 107 | <p>Co-operation of contractor for cost management</p> <p>F:..... V:..... T:.....</p> | Item |
| Carried Forward | | R |
| <p>Bill No. 1 Preliminaries and General Items</p> | | |

| Brought Forward | | R |
|--|------|---|
| <p>It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants 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 final building cost does not exceed the budget. The quantity surveyor undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor will attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures in regard to all subcontractors</p> | | |
| <p>108 Occupational Health and Safety Specification</p> <p>F:..... V:..... T:.....</p> <p>Any Principal Contractor entering into a contract with The Developer must achieve an acceptable level of Occupational Health and Safety performance. Refer to "Project Specification" and "Safety, Health and Environmental Evaluation Questionnaire" The contractor to comply with all provisions of the above and to be enforced on all selected and or other sub-contractors, as no claim afterwards will be entertained</p> | Item | |
| <p>109 Preparation and Submission of Project specific SHE plan and safety file based on the Health & Safety specification</p> <p>Fixed:_____ Value related:_____ Time related: _____</p> | Item | |
| <p>110 Personal Protective clothing / Equipment and ensure use thereof for full compliance</p> <p>Fixed:_____ Value related:_____ Time related: _____</p> | Item | |
| <p>111 C10.3 Medical certificates of fitness (entry and exit) for Contractor's employees</p> <p>Fixed:_____ Value related:_____ Time related: _____</p> | Item | |
| Carried Forward | | R |
| <p>Bill No. 1 Preliminaries and General Items</p> | | |

Brought Forward

112 C10.4 Compliance with the Covid-19 Occupational
 Health and Safety Measures in Workplaces as per item
 12.9 of the Health & Safety Specifications
 Fixed: _____ Value related: _____ Time
 related: _____

Item

R

SUMMARY OF CATEGORIES

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

Carried to Summary

R

Bill No. 1
Preliminaries and General Items

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|--------|--------|
| | <u>BILL NO. 2</u> | | | |
| | <u>EARTHWORKS (PROVISIONALS)</u> | | | |
| | <u>DEMOLITIONS</u> | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | For preambles see "Specifications of materials and methods to be used - PW 371" | | | |
| | NOTE | | | |
| | Contractor rates for demolitions shall include for carting away and disposal of debris to a tip to be found by the contractor unless specificl instructed otherwise. | | | |
| 1 | Take out and remove existing galvanised IBR toilet size 1000 x 750 x 1 950mm high from concrete slab and including steel structure and cartaway from site | No | 6 | |
| 2 | Demolish concrete slab | m3 | 7.00 | |
| 3 | Hardcore filling to pit | m3 | 100.00 | |
| 4 | Desludge and disinfect existing pit | | Item | |
| | <u>SITE CLEARANCE</u> | | | |
| 5 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs,bush and trees not exceeding 200mm girth, etc. | m2 | 54 | |
| 6 | Stripping average 100mm thick layer of top soil and stockpiling on site | m2 | 18 | |
| | <u>EXCAVATION,FILLING, ETC</u> | | | |
| | <u>Excavation in earth not exceeding 2m deep</u> | | | |
| 7 | Trenches | m3 | 7 | |
| 8 | Pit | m3 | 4 | |
| 9 | For aprons thickening | m3 | 1 | |
| | Carried Forward | | | |
| | Bill No. 2 Foundations(Provisional) | | R | |

| Brought Forward | | | | R |
|-----------------|---|----|----|------|
| | <u>Extra over trench and hole excavations in earth for excavation:</u> | | | |
| 10 | Soft rock | m3 | 2 | |
| 11 | Hard rock | m3 | 2 | |
| | <u>Extra over all excavations for carting away:</u> | | | |
| 12 | Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor | m3 | 5 | |
| | <u>Risk of collapse of excavations</u> | | | |
| 13 | Sides of trench and hole excavation not exceeding 1,5m deep. | m2 | 45 | |
| | <u>Keeping excavations free of water.</u> | | | |
| 14 | Keeping excavations free of water other than subterranean water | | | Item |
| | <u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u> | | | |
| 15 | Under floors, steps, pavings, etc. | m3 | 4 | |
| 16 | Backfilling to trenches, holes, etc. | m3 | 3 | |
| | <u>Compaction of surfaces</u> | | | |
| 17 | Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density | m2 | 14 | |
| 18 | Compaction of ground surface to pits 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 | 10 | |
| | Carried Forward | | | R |
| | Bill No. 2 Foundations(Provisional) | | | |

| Brought Forward | | | R |
|------------------------|--|------|----|
| 19 | Compaction of ground surface to aprons 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 | 22 |
| | <u>Prescribed density tests on filling</u> | | |
| 20 | Modified AASHTO Density tests | No | 1 |
| | <u>SOIL POISONING</u> | | |
| | <u>Soil insecticide</u> | | |
| 21 | Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming. | m2 | 14 |
| 22 | To bottom of concrete aprons | m2 | 22 |
| 23 | To bottoms and sides of trenches, etc. | m2 | 40 |
| | <u>CONCRETE CAST AGAINST EXCAVATED SURFACES</u> | | |
| | <u>20MPa/19mm concrete</u> | | |
| 24 | Strip footings | m3 | 3 |
| 25 | Surface bed in pit | m3 | 1 |
| | <u>TEST CUBES</u> | | |
| 26 | Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith (one block to be tested after 7 days). | Sets | 1 |
| | <u>BRICKWORK IN FOUNDATIONS</u> | | |
| | <u>Brickwork of NFP bricks in class II mortar</u> | | |
| 27 | One brick walls in pit | m2 | 27 |
| | <u>BRICKWORK SUNDRIES</u> | | |
| | Carried Forward | | R |
| | Bill No. 2 Foundations(Provisional) | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL NO.3</u> | | | |
| | <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | For preambles see "Specifications of materials and methods to | | | |
| | be used - PW 371" | | | |
| | <u>UNREINFORCED CONCRETE, ETC</u> | | | |
| | <u>25Mpa/19mm Concrete</u> | | | |
| 1 | Surface beds cast in panels on waterproofing. | m3 | 1 | |
| 2 | Surface bed in pit | m3 | 1 | |
| 3 | Aprons cast in panels | m3 | 2 | |
| 4 | Thickening down apron on edge 110mm deep x 200mm wide | m | 22 | |
| | <u>REINFORCED CONCRETE, ETC</u> | | | |
| | <u>25Mpa/19mm Concrete</u> | | | |
| 5 | Slabs | m3 | 2 | |
| | <u>CONCRETE SUNDRIES</u> | | | |
| | <u>Finishing top surfaces of concrete smooth with a wood float</u> | | | |
| 6 | Aprons and pavings to falls | m2 | 22 | |
| | <u>TEST CUBES</u> | | | |
| 7 | Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith. | Sets | 4.0 | |
| | Carried Forward | | | |
| | Bill No. 3 Concrete, Formwork and Reinforcement | | | |
| | | | R | |

| Brought Forward | | | R |
|--------------------------------------|---|----|------|
| | <u>Finishing top surfaces of concrete smooth with a steel trowel</u> | | |
| 8 | Surface beds, slabs, etc. | m2 | 21 |
| <u>FORMWORK</u> | | | |
| | <u>Rough formwork to sides:</u> | | |
| 9 | Edges, risers, ends and reveals not exceeding 300mm high or wide | m | 40 |
| | <u>Permanent formwork to soffits:</u> | | |
| 10 | Slabs propped up not exceeding 1.5m high | m2 | 10 |
| | <u>Boxing out smooth formwork to form</u> | | |
| 11 | Opening size 450 x 600mm through 150mm slab | No | 6.00 |
| <u>REINFORCEMENT</u> | | | |
| | <u>Mesh Reinforcement (measure nett)</u> | | |
| 12 | Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds | m2 | 10 |
| Carried to Summary | | | R |
| Bill No. 3 | | | |
| Concrete, Formwork and Reinforcement | | | |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>BILL NO. 4</u> | | | |
| | <u>PRECAST CONCRETE</u> | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | <u>Sizes:</u> | | | |
| | Blocks, sills, etc measured linear shall be made in suitable lengths. Large size setting out drawings shall be prepared where necessary and submitted to the architect for approval before moulds are made | | | |
| | <u>General:</u> | | | |
| | Where kerbstones, blocks, etc are laid in ground descriptions shall be deemed to include necessary excavation, filling in and ramming | | | |
| | <u>PRECAST CONCRETE</u> | | | |
| 1 | Wall panels of 1 440 x 300 x 50mm thick precast concrete planks fitted inside a steel frame (measured elsewhere) | m2 | 47 | |
| | <u>SUNDRIES</u> | | | |
| 2 | 150 x 1 970 x 5mm Cover strip | No | 13 | |
| | Carried to Summary | | | |
| | Bill No. 4 | | | |
| | Precast concrete | | | |
| | | | R | |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>BILL NO.5</u> | | | |
| | <u>WATERPROOFING</u> | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | For preambles see "Specifications of materials and methods to be used - PW 371" | | | |
| | <u>DAMP-PROOFING OF WALLS AND FLOORS</u> | | | |
| | <u>One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape</u> | | | |
| 1 | Under surface beds | m2 | 30 | |
| | <u>FLOOR AND WALLS SEALERS</u> | | | |
| | <u>Minimum Two coats approved black waterproofing</u> | | | |
| 2 | On concrete floor and plastered walls in septic tank | m2 | 25 | |
| | Carried to Summary | | | |
| | Bill No. 5 Waterproofing | | | R |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>BILL NO.6</u> | | | |
| | <u>ROOF COVERINGS</u> | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | For preambles see "Specifications of materials and methods to be used - PW 371" | | | |
| | NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes | | | |
| | <u>PROFILED METAL SHEETING AND ACCESSORIES</u> | | | |
| | <u>0,6mm Galvanised troughed sheet steel with concealed fixing, pre-painted finish one side, fixed to roof members as described complete under a five year guarantee by an approved firm of Specialists, all in accordance with the materials supplied and methods employed by the Manufacturer</u> | | | |
| 1 | Roof covering with pitch not exceeding 25 degrees | m2 | 15 | |
| | <u>0,8mm Galvanised sheet iron, with pre-painted finish on one side, in</u> | | | |
| 2 | Standard fascia board | m | 16 | |
| | <u>Sundries</u> | | | |
| 3 | 12" Thermal resistance sisalation laid on purlins | m2 | 9 | |
| | Carried to Summary | | | |
| | Bill No. 6 | | | |
| | Roof coverings | | | |
| | | | R | |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>BILL NO.7</u> | | | |
| | <u>IRONMONGERY</u> | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | For preambles see "Specifications of materials and methods to be used - PW 371" | | | |
| | <u>CATCHES, CABIN, HOOKS, ETC</u> | | | |
| | <u>Approved</u> | | | |
| 1 | 150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged | No | 6 | |
| | <u>DOORSTOPS</u> | | | |
| | <u>Approved</u> | | | |
| 2 | 38mm Diameter rubber door stop plugged | No | 6 | |
| | <u>LETTERS, NAMEPLATES, ETC.</u> | | | |
| | <u>"Union" or similar approved</u> | | | |
| 3 | 75 x 150mm Natural anodised aluminium plate with male or female symbol | No | 5 | |
| 4 | "DISABLED TOILETS" sign plate drilled and screwed to door with chromium plated domeheaded screws | No | 1 | |
| | <u>"Vaal Paragon" or similar approved</u> | | | |
| 5 | 32mm Type 9 back grab rail 800mm long plugged | No | 1 | |
| 6 | 32mm Type 8 side grab rail 900mm girth plugged | No | 1 | |
| | <u>BATHROOM FITTINGS</u> | | | |
| | <u>"Kimberley-Clark" or Simlilar</u> | | | |
| 7 | "Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder | No | 6 | |
| | Carried Forward | | | |
| | Bill No. 7 Ironmongery | | | |
| | | | R | |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <p><u>BILL NO.8</u></p> <p><u>STRUCTURAL STEELWORK</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete. Where anchor bolts are described as embedded in sides or soffits of concrete it shall be deemed to include holes through formwork.</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.</p> <p><u>STEEL STRUCTURE</u></p> | | | |
| 1 | Steel structure complete with columns, beams and purlins including paintwokr as per Engineer's details | t | 0.50 | |
| | Carried to Summary | | | R |
| | Bill No. 8 Structural steelwork | | | |

| Item No | | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
| | <u>BILL NO.9</u> | | | |
| | <u>METALWORK</u> | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | For preambles see "Specifications of materials and methods to be used - PW 371" | | | |
| | <u>WELDED SCREENS, GATES, ETC</u> | | | |
| 1 | Steel expanded mesh fitted into 25 x 25mm square hollow section (Prime cost amount of R 200.00/m2 excluding vat for supply and installation) | m2 | 3 | |
| 2 | Steel mesh drying screen fixed on precast lintols (Prime cost amount of R 200.00/m2 excluding vat for supply and installation) | m2 | 4 | |
| | <u>GALVANIZED STEEL WINDOWS, DOORS, ETC</u> | | | |
| 3 | Galvanized steel sheet metal door size 813 x 1 970mm high fixed onto and including 25 x 25mm square hollow section frame complete with closing mechanism | No | 5 | |
| 4 | Ditto, but size 914 x 1 970mm high | No | 1 | |
| | Carried to Summary | | | |
| | Bill No. 9 Metalwork | | R | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
| | <u>BILL NO. 11</u> | | | |
| | <u>PLUMBING AND DRAINAGE</u> | | | |
| | <u>SUPPLEMENTARY PREAMBLES</u> | | | |
| | For preambles see "Specifications of materials and methods to be used - PW 371" | | | |
| | <u>RAINWATER DISPOSAL</u> | | | |
| | <u>Aluzink seamless metal gutters:</u> | | | |
| 1 | 100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets | m | 6 | |
| 2 | Extra over for closed ends | No | 1 | |
| 3 | Extra over rainwater pipe for eaves offset | No | 1 | |
| | <u>SANITARY FITTINGS</u> | | | |
| | <u>White glazed fireclay or vitreous china coupling with SABS specification 497 in</u> | | | |
| 4 | Approved toilet seat | No | 5 | |
| 5 | Vaal Sanitaryware 600 x 385 x 380mm Lavatera white vitreous china wall mounted top inlet urinal (code: 705426) including 38mm chromium plated domical grating (code: 8787Z0) and chromium plated top inlet spreader spreader (code: 7054Z1), flush valve (by others - Recommended: Cobra FJ6000), fixed on and including two hanger brackets (code: 8127Z0) | No | 1 | |
| 6 | "Vaal hibiscus" or similar approved wash hand basin bolted to wall including all fittings and necessary brackets | No | 6 | |
| | <u>"Cobra Watertech"</u> | | | |
| 7 | Cobra Watertech 32mm chrome plated basin waste (Code: 308) with 62mm diameter flange, 80mm long shank and plug. | No | 6 | |
| | Carried Forward | | | |
| | Bill No. 11 Plumbing and Drainage | | R | |

| Brought Forward | | | R |
|---|--|----|------|
| <u>TRAPS ETC</u> | | | |
| 8 | "Cobra Ref. 365/40" CP bottle trap | No | 6 |
| <u>SANITARY PLUMBING</u> | | | |
| <u>uPVC pipes</u> | | | |
| 9 | 50mm Pipes | m | 12 |
| 10 | 50mm Pipes laid in and including trenches n.e 1m deep | m | 6 |
| <u>Extra over uPVC pipes for fittings</u> | | | |
| 11 | 50mm Bend | No | 6 |
| 12 | 50mm Junction | No | 6 |
| <u>WATER SUPPLIES</u> | | | |
| <u>uPvc pipes</u> | | | |
| 13 | 25mm Pipes | m | 12 |
| <u>Extra over uPVC pipes for capillary fittings</u> | | | |
| 14 | 25mm Fittings | No | 18 |
| 15 | "Cobra Ref. 232/350" Angle regulating valve | No | 5 |
| 16 | Elbow taps | No | 6 |
| <u>Gratings, covers, etc</u> | | | |
| 17 | Inspection chamber with lockable steel lid and stay (Prime cost amount of R 2000.00 each excluding vat for supply and installation) | m2 | 6 |
| 18 | Precast concrete manhole cover and frame | No | 1.00 |
| 19 | Lifting key for manhole cover | No | 1.00 |
| <u>RAINWATER TANKS AND STANDS</u> | | | |
| Carried Forward | | | R |
| Bill No. 11 Plumbing and Drainage | | | |

| Brought Forward | | | R |
|--------------------------------------|---|----|------|
| <u>Rainwater tanks:</u> | | | |
| 20 | 2 500 Litre Polyethylene vertical water tank with and including two filters complete with support structure as per Engineer's details | No | 1.00 |
| 21 | Hole through top of tank lid for 100mm diameter pipe. | No | 1.00 |
| <u>TESTING</u> | | | |
| 22 | Allow for filling up water tanks and testing for leak detection | | Item |
| <u>French Drain</u> | | | |
| 23 | French drain 4250mm long x 300mm wide x 900mm deep extreme including all necessary excavation complete with and including 110mm diameter porous pvc pipe 4000mm long and trench backfilled with dump rock surround to pvc pipe and to 500 x 500 x 500mm manhole at the outlet of the pvc pipe and top layer filled with and including gravel or 13mm stone filling including carting away surplus materials from the excavations. | No | 1.00 |
| <u>Ventilation pipe</u> | | | |
| 24 | 110mm Diameter uPVC ventilation pipe with cowl and gaze on top | No | 6 |
| Carried to Summary | | | R |
| Bill No. 11 Plumbing and Drainage | | | |

| Item No | Quantity | Rate | Amount |
|---|----------|------|--|
| <p><u>BILL NO. 13</u></p> <p><u>WALKWAYS</u></p> <p><u>Preambles and Descriptions</u></p> <p>Tenderers are referred to other Sections for preambles and full descriptions of materials and items not fully described in this Section and which shall apply equally to work in this Section, unless otherwise described.</p> <p><u>General</u></p> <p>All earthworks, filling, paving, roads, etc. must be in accordance with the applicable clauses of SABS 1200, supplemented by "Preambles to all Trades" and in the case of discrepancies the latter will take preference. All measuring and descriptions is still done in accordance with the applicable issue and ammedments of the "Standard System of Measuring Building Work"</p> <p><u>Excavations</u></p> <p>Prices of excavations are to include for putting aside excavated material to be used as filling where applicable , keeping suitable filling material clean and depositing and handling it in such a way to prevent mixing with unsuitable material as far as possible</p> <p>Depositing excavated material in stock piles on site for use as filling or to be carted away is only measured where the stock piles are prescribed</p> <p><u>Filling</u></p> <p>Before any material is used for filling, complete test results must be submitted to the Engineer for his approval and prices are to include therefor.</p> <p>The provision of suitable filling material and the location of depositing grounds , etc. are the sole responsibility of the Contractor and prices are to include for all transportatation</p> <p style="text-align: right;">Carried Forward</p> <p>Bill No. 13 Walkways (Provisional)</p> | | | <hr style="border: 0.5px solid black;"/> |

| Brought Forward | | | R |
|--|---|----|------|
| <u>Site Clearance etc</u> | | | |
| 1 | Clean site including digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc | m2 | 153 |
| <u>Excavate in pickable material not exceeding 2m deep below natural or reduced ground level</u> | | | |
| 2 | Reduced levels under paving | m3 | 27 |
| <u>Extra over all excavations for carting away</u> | | | |
| 3 | Surplus excavated material to a dumping site to be located by the Contractor | m3 | 27 |
| <u>Keeping excavations free of water</u> | | | |
| 4 | Keeping excavations free of all water other than subterranean water | | Item |
| <u>Compaction of surfaces</u> | | | |
| 5 | Scarify earth surface to a depth of 150mm, breaking down over size material and reconsolidate to 93% modified AASHTO density | m2 | 90 |
| <u>Approved gravel filling supplied and carted on by the Contractor, spread, levelled, well watered and compacted in layers not exceeding 150mm to a density of 93% modified AASHTO</u> | | | |
| 6 | Walkways, yards, etc | m3 | 41 |
| <u>Pavers</u> | | | |
| 7 | 50mm Thick class 25Mpa plain concrete interlocking paving blocks | m2 | 90 |
| <u>Kerbs, etc</u> | | | |
| 8 | Precast concrete figure 7 kerb (SABS 927), levelled and jointed in 1:5 cement mortar complete with 15Mpa/19mm in situ concrete support blocks size 225 x 150 x 225mm high, at joints at 1,0m centres, including leaving 6mm expansion joints at 10m intervals between kerbs | m | 75 |
| Carried Forward | | | R |
| Bill No. 13 Walkways (Provisional) | | | |

| Brought Forward | | | R |
|---|---|------|----|
| <u>25mm River sand</u> | | | |
| 9 | Under concrete pavers | m2 | 90 |
| <u>Approved weed killer</u> | | | |
| 10 | Hyvar X or other equally approved soil herbicide at a rate of 50 gram/m2 under paving etc. | m2 | 90 |
| <u>CONCRETE</u> | | | |
| <u>Concrete tests</u> | | | |
| 11 | Prepare set of three concrete cubes each size 150 x 150 x 150mm and deliver to an approved laboratory for testing and pay all charges <u>(Provisional)</u> | Sets | 1 |
| <u>Mass concrete (20Mpa) in :</u> | | | |
| 12 | Ramps | m3 | 1 |
| <u>Sundries</u> | | | |
| 13 | Finishing top surfaces of concrete to an evenly brushed non-slip surface to falls (Provisional) | m2 | 6 |
| <u>ROUGH FORMWORK</u> | | | |
| <u>General formwork</u> | | | |
| 14 | Edges, risers, ends and reveals not exceeding 300mm high or wide (Provisional) | m | 8 |
| <u>STEEL HANDRAILS, BALUSTRADES, ETC</u> | | | |
| <u>Welded balustrading to ramp</u> | | | |
| 15 | 1 050mm High Balustrades formed with 50 x 50mm hollow section top and bottom rails, 50 x 50mm hollow section vertical posts at 1000mm centres with 100 x 100 x 3mm base plate bolted four times to concrete floor with M16 expansion bolts including 25 x 25 hollow section vertical intermediate members at 10mm spacings and close end to rails and posts | m | 10 |
| Carried to Summary | | | R |
| Bill No. 13 | | | |
| Walkways (Provisional) | | | |

| Item No | Quantity | Rate | Amount |
|--|----------|------|---|
| <p><u>BILL NO.14</u></p> <p><u>SUB-SOIL DRAINAGE</u></p> <p><u>Preambles and Descriptions</u></p> <p>Tenderers are referred to other Sections for preambles and full descriptions of materials and items not fully described in this Section and which shall apply equally to work in this Section, unless otherwise described.</p> <p><u>General</u></p> <p>All earthworks, filling, paving, roads, etc. must be in accordance with the applicable clauses of SABS 1200, supplemented by "Preambles to all Trades" and in the case of discrepancies the latter will take preference. All measuring and descriptions is still done in accordance with the applicable issue and ammedments of the "Standard System of Measuring Building Work"</p> <p><u>Excavations</u></p> <p>Prices of excavations are to include for putting aside excavated material to be used as filling where applicable , keeping suitable filling material clean and depositing and handling it in such a way to prevent mixing with unsuitable material as far as possible</p> <p>Depositing excavated material in stock piles on site for use as filling or to be carted away is only measured where the stock piles are prescribed</p> <p><u>Filling</u></p> <p>Before any material is used for filling, complete test results must be submitted to the Engineer for his approval and prices are to include therefor.</p> <p>The provision of suitable filling material and the location of depositing grounds , etc. are the sole responsibility of the Contractor and prices are to include for all transportatation</p> <p style="text-align: right;">Carried Forward</p> <p>Bill No. 14 Sub-soil Drainage (Provisional)</p> | | | <hr style="border: none; border-top: 1px solid black; margin-top: 800px;"/> <p style="text-align: right;">R</p> |

| Brought Forward | | | R |
|--|---|----|------|
| <u>Site Clearance etc</u> | | | |
| 1 | Clean site including digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc | m2 | 25 |
| <u>Excavations not exceeding 2m deep</u> | | | |
| 2 | Excavate trench for pipe | m3 | 30 |
| <u>Risk of collapse</u> | | | |
| 3 | To sides of trench | m2 | 100 |
| <u>Keeping excavations free of water</u> | | | |
| 4 | Allow for pumping out water and keeping trench free of water | | Item |
| <u>Backfilling</u> | | | |
| 5 | Imported G5 material fully compacted | m3 | 15 |
| 6 | Selected fill material from excavations | m3 | 14 |
| <u>Floor-drain</u> | | | |
| 7 | (Keytech) geosynthetics or approved equal filter blanket including side and end laps minimum 300mm | m2 | 59 |
| <u>Geo Pipes</u> | | | |
| <u>Slotted uPvc flexible drainage pipes</u> | | | |
| 8 | 160mm Geo pipe laid to slope | m | 25 |
| <u>Extra over uPvc pipes for fittings</u> | | | |
| 9 | 160mm end cap | No | 1 |
| 10 | 160mm bend | No | 1 |
| 11 | 160mm access bend | No | 1 |
| Carried to Summary | | | R |
| Bill No. 14 | | | |
| Sub-soil Drainage (Provisional) | | | |

| Item No | | Quantity | Rate | Amount |
|---------|---|----------|------|-----------|
| | <p><u>BILL NO. 15</u></p> <p><u>PROVISIONAL SUMS</u></p> <p>All the provisional sums cover supply of material and equipment and installation where applicable by firms of specialists.</p> <p>Provisional sums are net and do not include builder's discount, but the Tenderer may allow under "Profit" items any profit he considers necessary.</p> <p>The Tenderer is referred to Clause 87.1 and 87.2 in the "Preliminaries" section for the definition and adjustment of "General Attendance".</p> <p><u>Community Liaison Officer</u></p> <p>Preambles,</p> <p>Expanded Public Works Programme reporting on a monthly basis Proof of payment to the CLO must be issued by the contractor to the Principal Agent and TMT Payment is fixed and is for only when works are ongoing on site</p> | | | |
| 1 | Allow the Provisional Amount of R 15 000.00 (Fifteen Thousand Rand) for Community Liaison Officer to be appointed by the main contractor @ R 5000.00 per month-fixed | Item | | 15 000,00 |
| 2 | Allow for profit | | % | |
| 3 | Allow for general attendance | | % | |
| | Carried to Summary | | | |
| | | | R | |
| | Bill No. 15 Provisional sums | | | |

| Bill No | <u>FINAL SUMMARY</u> | Page No | Amount |
|---------|--|---------|--------|
| 1 | Preliminaries and General Items | 94 | |
| 2 | Foundations(Provisional) | 98 | |
| 3 | Concrete, Formwork and Reinforcement | 100 | |
| 4 | Precast concrete | 101 | |
| 5 | Waterproofing | 102 | |
| 6 | Roof coverings | 103 | |
| 7 | Ironmongery | 105 | |
| 8 | Structural steelwork | 106 | |
| 9 | Metalwork | 107 | |
| 10 | In situ finishes | 108 | |
| 11 | Plumbing and Drainage | 111 | |
| 12 | Paintwork | 112 | |
| 13 | Walkways (Provisional) | 115 | |
| 14 | Sub-soil Drainage (Provisional) | 117 | |
| 15 | Provisional sums | 118 | |
| | Sub Total | | R |
| | <u>CONTINGENCIES</u> | | |
| | Allowance for Contingency amount at 5% (Five percent) of Sub-Total above, to be used at the discretion of the Employer or His appointed Agent and deducted in whole or in part if not required | Item | |
| | Sub Total | | R |
| | <u>Add:</u> Value Added Tax at 15% | | R |
| | Carried to Form of Tender | | R |