| Item No | Description | Quantity | Amount |
|---|---|---|---|
| | **BILL NO. 1** | | |
| | **PRELIMINARIES** | | |
| | **NOTES TO PRELIMINARIES** | | |
| | **NOTE : TENDERERS ARE TO PRICE PRELIMINARIES BASED ON THE TERMS, INSTRUCTIONS AND CONDITIONS OF THE CONTRACT AND BILLS OF QUANTITIES INCLUDED HEREIN** | | |
| | **STRUCTURE OF THIS PRELIMINARIES BILL** | | |
| | Section A : A recital of the headings of the individual clauses of the aforementioned **JBCC Series 2000 Principal Building Agreement prepared by Joint Building Contracts Committee, Edition 6.2 - March 2018** | | |
| | Section B : A recital of the headings of the individual clauses of the aforementioned Preliminaries document | | |
| | Section C : Any special clauses to meet the particular circumstances of the project | | |
| | **SECTION A: PRINCIPAL BUILDING AGREEMENT** | | |
| 1.1.1 | Clause 1.0 - Definitions and interpretation | | |
| 1.1.2 | F:..... V:..... T:..... | Item | |
| 1.1.3 | Clause 2.0 - Law, regulations and notices | | |
| 1.1.4 | Clause 3.0 - Offer and acceptance | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.5 | Clause 4.0 - Assignment and cession | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.6 | Clause 5.0 - **Contract documents** | | |
| | **Carried forward** | R | |

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|---|---|---|---|
| | **Brought forward** | R | |
| | F:..... V:..... T:..... | Item | |
| 1.1.7 | Clause 6.0 - **Employer's agents** | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.8 | Clause 7.0 - Design responsibility | | |
| | F:..... V:..... T:..... | Item | |
| | **Insurance and security (A8-A11)** | | |
| 1.1.9 | Clause 8.0 - **Works** risk | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.10 | Clause 9.0 - Indemnities | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.11 | Clause 10.0 - Insurances | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.12 | Clause 11.0 - **Security** | | |
| | F:..... V:..... T:..... | Item | |
| | **Execution (A12 - A17)** | | |
| 1.1.13 | Clause 12.0 - Duties of the **parties** | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.14 | Clause 13.0 - Setting out | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.15 | Clause 14.0 - Nominated **subcontractors** | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.16 | Clause 15.0 - Selected **subcontractors** | | |
| | **Carried forward** | R | |

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| | **Brought forward** | R | |
| | F:..... V:..... T:..... | Item | |
| 1.1.17 | Clause 16.0 - **Direct contractors** | | |
| | **Attendance on direct contractors** | | |
| | In respect of **direct contractors** the **contractor** shall: | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.18 | Clause 17.0 - **Contract instructions** | | |
| | **Site instructions** | | |
| | Instructions issued on **site** are to be recorded in a site instruction book which is to be supplied and maintained on **site** by the **contractor** | | |
| | F:..... V:..... T:..... | Item | |
| | **<u>Completion (A18 - A24)</u>** | | |
| 1.1.19 | Clause 18.0 - Interim completion | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.20 | Clause 19.0 - **Practical completion** | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.21 | Clause 20.0 - Sectional completion | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.22 | Clause 21.0 - **Defects** liability period and **final completion** | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.23 | Clause 22.0 - **Latent defects** liability period | | |
| | F:..... V:..... T:..... | Item | |
| | **Carried forward** | R | |

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| | **Brought forward** | R | |
| 1.1.24 | Clause 23.0 - Revision of date for **practical completion** | | |
| | **Substitution of materials and goods** | | |
| | The removal or substitution of any **materials and goods** which do not conform to the specification or the **contract drawings** shall not constitute grounds for the extension of the **construction period** nor for the adjustment of the **contract value** [17.1.8, 23.1 & 2] | | |
| | In assessing his price and programme for the works to be completed by the given practical completion date/s (refer to Contract Data EC), the contractor shall take into account and shall **allow 10 working days to be included in his construction programme** (based on a five day working week), as a contingency period to cover any items such as rain & other delays. This contingency period will be used at the discretion of the Principal Agent | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.25 | Clause 24.0 - **Penalty** for late or non-completion | | |
| | F:..... V:..... T:..... | Item | |
| | **Payment (A25 - A27)** | | |
| 1.1.26 | Clause 25.0 - Payment | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.27 | Clause 26.0 - Adjustment of the **contract value** and **final account** | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.28 | Clause 27.0 - Recovery of expense and/or loss | | |
| | F:..... V:..... T:..... | Item | |
| | **Suspension and termination (A28 - A29)** | | |
| 1.1.29 | Clause 28.0 - Suspension by the **contractor** | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.30 | Clause 29.0 - Termination | | |
| | **Carried forward** | R | |

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| | **Brought forward** | R | |
| | F:..... V:..... T:..... | Item | |
| | **Dispute resolution (A30)** | | |
| 1.1.31 | Clause 30.0 - Dispute resolution | | |
| | F:..... V:..... T:..... | Item | |
| | **SECTION B: PRELIMINARIES** | | |
| | **Interpretation (B1)** | | |
| 1.1.32 | Clause 1.1 - Definitions | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.33 | Clause 1.2 - Interpretation | | |
| | F:..... V:..... T:..... | Item | |
| | **Documents (B2)** | | |
| 1.1.34 | Clause 2.1 - Checking of documents | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.35 | Clause 2.2 - Provisional **bills of quantities** | | |
| | The quantities in provisional bills of quantities are an indication of the works to be executed and are subject to remeasurement | | |
| 1.1.36 | Clause 2.3 - Availability of **construction information** | | |
| | **Budgetary allowances and provisional sums** | | |
| | The **budgetary allowances** and/or **provisional sums** allocated for subsequent trades included in this **agreement** will be separately procured, based on multiple procurement of **subcontractors** during the **construction period** | | |
| | F:..... V:..... T:..... | Item | |
| | **Carried forward** | R | |

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| | **Brought forward** | R |
| | The construction documentation for the works is not complete and will only be completed during the construction period. The contractor and principal agent shall work together to identify the requirements for the provision of construction documentation. The contractor and principal agent shall agree the dates that are reasonable by when the contractor is to be provided with each outstanding item of the anticipated construction documentation.<br><br>The contractor and n/s subcontractor shall agree dates by when the n/s subcontractor is to be provided with each item of the outstanding documentation in terms of the programme. | |
| 1.1.37 | Clause 2.4 - Ordering of **materials and goods** | |
| | F:..... V:..... T:..... | Item |
| | **Previous work and adjoining properties (B3)** | |
| 1.1.38 | Clause 3.1 - Previous work - dimensional accuracy | |
| | F:..... V:..... T:..... | Item |
| | The contractor shall, within a reasonable period after taking possession of the site, but not exceeding ten (10) per cent of the construction period or twenty (20) working days whichever is the lesser, check the existing levels, lines, profiles and the like affecting the works and satisfy himself as to the dimensional accuracy of work previously executed. The contractor shall forthwith notify the principal agent and request a contract instruction regarding any dimensional inaccuracy found in work previously executed | |
| 1.1.39 | Clause 3.2 - Previous work - **defects** | |
| | F:..... V:..... T:..... | Item |
| | The contractor, on becoming aware of a defect in work previously executed, shall forthwith notify the principal agent requesting a contract instruction regarding such a defect. | |
| 1.1.40 | Clause 3.3 - Inspection of adjoining properties | |
| | F:..... V:..... T:..... | Item |
| | **Carried forward** | R |

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| | **Brought forward** | R |
| | Before commencing the works, the principal agent and contractor shall arrange with the owners of adjacent buildings and properties and representatives of local authorities to inspect, among others, the buildings, structures, pavings, kerbs, channels and fences. The contractor shall record all conditions that the works could affect and copy the principal agent accordingly. The contractor shall pay particular attention to cracks, defects and existing levels related to structures, pavings, kerbs, channels and fences, which later could be claimed to have been caused or disturbed by the works.<br><br>Where instructed by the principal agent, levels and photographs shall be taken by the contractor and the cost thereof shall be for the employer's account. Certified copies shall be lodged with the principal agent. | |
| | **<u>The site (B4)</u>** | |
| 1.1.41 | Clause 4.1 - Defined **works** area | |
| | F:..... V:..... T:..... | Item |
| 1.1.42 | Clause 4.2 - Handover of **site** in stages | |
| | F:..... V:..... T:..... | Item |
| 1.1.43 | Clause 4.3 - Enclosure of the **works** | |
| | F:..... V:..... T:..... | Item |
| 1.1.44 | Clause 4.4 - Geotechnical investigation | |
| | F:..... V:..... T:..... | Item |
| 1.1.45 | Clause 4.5 - Encroachments | |
| | F:..... V:..... T:..... | Item |
| 1.1.46 | Clause 4.6 - Existing premises occupied | |
| | F:..... V:..... T:..... | Item |
| 1.1.47 | Clause 4.7 - Services - known | |
| | F:..... V:..... T:..... | Item |
| | **Carried forward** | R |

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| | **Brought forward** | R | |
| 1.1.48 | Clause 4.8 - Protection of trees and/or relevant natural features | | |
| | F:..... V:..... T:..... | Item | |
| | **Management of contract (B5)** | | |
| 1.1.49 | Clause 5.1 - Management of the **works** | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.50 | Clause 5.2 - Progress meetings | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.51 | Clause 5.3 - Technical meetings | | |
| | F:..... V:..... T:..... | Item | |
| | **Samples, shop drawings and manufacturer's instructions (B6)** | | |
| 1.1.52 | Clause 6.1 - Samples of materials | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.53 | Clause 6.2 - Workmanship samples | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.54 | Clause 6.3 - Shop drawings | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.55 | Clause 6.4 - Compliance with manufacturer's instructions | | |
| | F:..... V:..... T:..... | Item | |
| | **Deposits and fees (B7)** | | |
| 1.1.56 | Clause 7.1 - Deposits and fees | | |
| | F:..... V:..... T:..... | Item | |
| | **Carried forward** | R | |

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|---|---|---|---|
| | **Brought forward** | R | |
| | **Temporary services (B8)** | | |
| 1.1.57 | Clause 8.1 - Water | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.58 | Clause 8.2 - Electricity | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.59 | Clause 8.3 - Ablution and welfare facilities | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.60 | Clause 8.4 - Communication facilities | | |
| | F:..... V:..... T:..... | Item | |
| | **Prime cost amounts (B9)** | | |
| 1.1.61 | Clause 9.1 - Responsibility for **prime cost amounts** | | |
| | *Where details of materials for which prime cost amounts are to be allowed are readily available, the quantity surveyor may elect to insert the relevant prime cost amounts in measured items, which measured items shall contain sufficient detail for the contractor to price for fixing and installation, waste, etc* | | |
| | F:..... V:..... T:..... | Item | |
| | **Attendance on subcontractors (B10)** | | |
| 1.1.62 | Clause 10.1 - General attendance | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.63 | Clause 10.2 - Special attendance | | |
| | **General (B11)** | | |
| 1.1.64 | Clause 11.1 - Protection of the **works** | | |
| | F:..... V:..... T:..... | Item | |
| | **Carried forward** | R | |

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|---|---|---|---|
| | **Brought forward** | R | |
| 1.1.65 | Clause 11.2 - Protection/isolation of existing/sectionally occupied **works** | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.66 | Clause 11.3 - Security of the **works** | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.67 | Clause 11.4 - Notice before covering work | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.68 | Clause 11.5 - Disturbance | | |
| | F:..... V:..... T:..... | Item | |
| | Clause 11.6 - Environmental disturbance | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.69 | Clause 11.7 - **Works** cleaning and clearing | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.70 | Clause 11.8 - Vermin | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.71 | Clause 11.9 - Overhand work | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.72 | Clause 11.10 - Tenant installations by **direct contractors** | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.73 | Clause 11.11 - Advertising | | |
| | F:..... V:..... T:..... | Item | |
| | **Carried forward** | R | |

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|---|---|---|
| **Brought forward** | R | |

**Preliminaries schedule (B12)**

12.1 - Provisional **bills of quantities** [2.2]

Yes

12.2 - Availability of **construction information** [2.3]

No

12.3 - Previous work - dimensional accuracy [3.1] Yes

12.4 - Previous work - **defects** [3.2]

12.5 - Inspection of adjoining properties [3.3] Yes

12.6 - Defined **works** area [4.1] Yes

12.7 - Handover of **site** in stages [4.2] Yes

12.8 - Enclosure of the **works** [4.3] Yes

12.9 - Geotechnical investigation [4.4] Yes

12.10 - Existing premises occupied [4.6] No

12.11 - Services - known [4.7] Yes

12.12 - Protection of trees and/or relevant natural features [4.8] Yes

12.13 - Water [8.1]

Option A (by **contractor**)
No
Option B (by **employer** - free of charge)
No
Option C (by **employer** - metered)
Yes

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| **Carried forward** | R | |

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| **Brought forward** | R | |
| 12.14 - Electricity [8.2] | | |
| Option A (by **contractor**)<br>No<br>Option B (by **employer** - free of charge)<br>No<br>Option C (by **employer** - metered)<br>Yes | | |
| 12.15 - Ablution and welfare facilities [8.3] | | |
| Option A (by **contractor**)<br>Yes<br>Option B (by **employer**)<br>No | | |
| 12.16 - Communication facilities [8.4] | | |
| 12.17 - Protection of the **works** [11.1] | | |
| 12.18 - Protection/isolation of existing/sectionally occupied **works** [11.2] | | |
| No | | |
| 12.19 - Disturbance [11.5] | | |
| 12.20 - Environmental disturbance [11.6] | | |
| F:..... V:..... T:..... | Item | |
| **SECTION C: SPECIFIC PRELIMINARIES** | | |
| 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** | | |
| F:..... V:..... T:..... | Item | |
| **Carried forward** | R | |

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| | **Brought forward** | R | |
| 1.1.74 | Overtime<br><br>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** | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.75 | Co-operation of the **contractor** for cost management<br><br>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 | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.76 | Overloading<br><br>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 | | |
| | F:..... V:..... T:..... | Item | |
| 1.1.77 | Propping of floors below<br><br>The **contractor** is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of **materials and goods** and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the **principal agent** and the cost thereof shall be borne by the **contractor** | | |
| | F:..... V:..... T:..... | Item | |
| | **Carried forward** | R | |

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| | **Brought forward** | R |
| 1.1.78 | Testing of flat roof waterproofing for watertightness<br><br>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 forty (40) hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing<br><br>F:..... V:..... T:..... | Item |
| 1.1.79 | Advertising rights<br><br>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. Position and type of advertising structure to be agreed with the **principal agent** so as not to hinder the **contractor** in meeting the obligations under this **agreement**<br><br>F:..... V:..... T:..... | Item |
| 1.1.80 | Confidentiality<br><br>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**<br><br>No information regarding this project shall be published or disclosed without the prior written consent of the **employer**<br><br>F:..... V:..... T:..... | Item |
| 1.1.81 | Media releases<br><br>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**<br><br>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<br><br>F:..... V:..... T:..... | Item |
| | **Carried forward** | R |

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| | **Brought forward** | R | |
| 1.1.82 | Tenderers are 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 packing, duties, taxes, imposts, establishment charges, overheads, profit and all other obligations arising out of the agreement.<br><br>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 tenderer's omission to price any item will be entertained.<br><br>Prices for all plant, temporary works, services and other items provided shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary.<br><br>The contractor shall execute work during “overtime” hours as necessary in order to complete the project within the agreed construction period and shall provide such resources and work such overtime hours as necessary. Costs for the execution of this work under these conditions shall be included within the contract sum. | Item | |
| 1.1.83 | Tenderers are advised that the nature of this contract is such that the detail design will evolve in parallel with construction.<br><br>The Tenderer acknowledges that he is aware that the project detail design and related planning and production of drawings are in an embryonic stage and that the appointments of major selected/nominated subcontractors have yet to take place and that notwithstanding this, the rates and prices contained herein, shall remain of full force and effect. | Item | |
| 1.1.84 | All costs incurred by the contractor in the preparation of claims to the satisfaction of the principal agent and/or quantity surveyor shall be borne by the contractor.The contractor shall provide a written opinion on all claims, including those submitted by selected/nominated subcontractors, pertaining to reduced time available for execution of the relevant work, out-of-sequence working, lack of access or claims of a similar nature. | Item | |
| | **Carried forward** | R | |

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| | **Brought forward** | R |
| 1.1.85 | Submission of a tender shall be deemed as acceptance by the contractor that he is satisfied with the scope of the insurances effected by the employer, supplemented by any additional insurance considered necessary by himself.<br><br>The employer warrants that the insurances effected by him shall remain in force for the duration of the contract including the period of maintenance.<br><br>Any clarification of the scope of cover provided by the policies arranged by the employer should be obtained from the employer's insurance brokers.<br><br>The contractor warrants that he shall give all notices and shall observe all the terms and conditions and requirements of all insurances applicable to this contract.<br>Where the contractor is responsible for the appointment of sub-contractors, then the contractor shall:<br><br>i) ensure that potential and appointed subcontractors are aware of the whole content of Clauses A10.0, A11.0 and A12.0<br>ii) ensure the compliance of subcontractor with these Clauses where applicable. | Item |
| 1.1.86 | In the In the event of any occurrence which is likely to give rise to a claim under the insurances arranged by the employer, the contractor / subcontractor shall :-<br><br>i) In addition to any statutory requirement or other requirements contained in the agreement, immediately notify the employer's insurance brokers by telephone or telefax, giving the circumstances, nature and an estimate of the loss or damage or liability;<br><br>ii) Complete a claims advice form per Annexure "L", in conjunction with both the principal agent and the employer and return it to the insurance brokers without delay;<br><br>iii) Assist as required, in negotiations of the settlement of claims with the insurers through the employer's insurance brokers.<br><br>The employer shall have the right to make all and any enquiry on the site or elsewhere as to the cause and results of any such occurrence and the contractor shall give the employer and his insurers full facilities for carrying out such enquiries. | Item |
| | **Carried forward** | R |

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| | **Brought forward** | R |
| 1.1.87 | Copies of the structural engineer's drawings showing the positions of construction breaks and the extent of individual concrete pours are to be maintained by the contractor for record purposes and are to be submitted to the structural engineers for their records, at the end of the project.<br><br>All such as-built drawings are required to be lodged prior to the issue of the certificate of works completion (refer Clause A25 hereof). | Item |
| 1.1.88 | The contractor shall obtain and hand over to the principal agent on practical completion, all relevant guarantees and operating and maintenance manuals, as required by the principal agent or provided by manufacturers, suppliers or subcontractors.<br><br>The contractor shall ensure that all warranties and guarantees received are fully ceded to the employer on works completion, failing which, the issue of the works completion certificate and the release of construction guarantee, will be withheld until this is satisfactorily completed.<br><br>The guarantees shall state that workmanship, materials and installations are guaranteed for a specified period reckoned from the date of practical completion of the works and that any defects in the workmanship, materials and installation that may arise during that period, shall be made good at the expense of the contractor / subcontractors doing the work, upon written notice from the principal agent or the employer to do so. | Item |
| 1.1.89 | At completion, the contractor shall leave the works secure with all accesses locked. The contractor shall account for and hand over to the principal agent all keys, properly labelled with an itemised schedule to be signed by the principal agent as receipt. | Item |
| 1.1.90 | The contractor shall take all appropriate measures for general security of the works | Item |
| 1.1.91 | The contractor shall give adequate notice to the principal agent whenever any work or material which is subject to inspection or remeasurement is to be covered or concealed in any way. In default of such a notice being received timeously by the principal agent such work shall be exposed and later made good at the contractor's expense. | Item |
| 1.1.92 | The contractor shall execute the works with a minimum of disturbance to adjoining premises, any parts of the works already handled over and the occupants of those premises and/or parts. | Item |
| | **Carried forward** | R |

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| | | | |
|---|---|---|---|
| | **Brought forward** | R | |
| 1.1.93 | The contractor shall execute the works without any unreasonable adverse effect on the environment. | Item | |
| 1.1.94 | The contractor shall produce, when required to do so by the principal agent, a method statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the works. Any approval given or observation made by the principal agent shall not relieve the contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the works. | Item | |
| 1.1.95 | 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, scaffolding, etc. The contractor shall submit details of his proposed loading, storage, plant erection, etc., to the principal agent for their approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the principal agents 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 experience. | Item | |
| 1.1.96 | The contractor shall take all reasonable measures to ensure that all alteration works are structurally practicable and safe. The contractor shall provide and price under the relevant demolition item, for all necessary temporary propping and support which may be required. | Item | |
| 1.1.97 | The contractor shall remove from the site all materials not conforming with the relevant specification and condemned by the principal agent, whether incorporated in the works or not. He shall replace such material and re-execute the affected work in accordance with the contract and without expense to the employer. | Item | |
| | **Carried forward** | R | |

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|---|---|---|---|
| | **Brought forward** | R | |
| 1.1.98 | Notwithstanding anything to the contrary contained herein, the principal agent at all times reserves the right to direct the order in which the various parts of the contract are to be executed. The contractor shall give priority to any individual section or portion of the works that, in the opinion of the principal agent, requires to be expedited.<br><br>Should the contractor and/or principal agent be of the opinion that such instruction warrants a revision to the contract programme, then the provisions of Clause A15.6.6 hereof shall apply.<br><br>Should it appear, in the principal agent's opinion, that work in any area is not being executed in accordance with the requirements of the programme, the contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the principal agent. | Item | |
| | **Carried forward** | R | |

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|---|---|---|---|
| | **Brought forward** | R | |
| 1.1.99 | The contractor shall indemnify the principal agent against any action, claim, demand, costs or expenses arising from or incurred by reason of any infringement of letters, patent design, trademark, name, copyright or other protected rights in respect of any machine, plant, work, materials, thing, system or method of using, fixing, working or arrangement used or fixed or supplied by the contractor, but such indemnity shall not cover any use of the equipment or part thereof otherwise than in accordance with the provisions of the specification.<br><br>All payments and royalties payable in one sum or by instalments or otherwise, shall be included by the contractor in the price and shall be paid by him to those to whom they may be due or payable.<br><br>In the event of any claim being made or action brought against the principal agent arising out of the matter referred to in this clause, the contractor shall be promptly notified thereof and may, at his own expense, conduct negotiations for the settlement of the same and/or litigation, that may arise therefrom. The principal agent shall not, unless and until the contractor shall have failed to take over and conduct the negotiations of litigation, make any admission which might be prejudicial thereto.<br><br>The conduct by the contractor of such negotiations or litigation shall be conditional upon the contractor having first given the principal agent such reasonable security as shall from time to time be required by the principal agent, to cover the amount ascertained or agreed or estimated, as the case may be, or any compensation, damage, expenses and costs for which the principal agent may become liable in respect of such infringement as aforesaid. The principal agent shall, at the request of the contractor, afford all available assistance for the purpose of contesting any such claim or action and shall be repaid the expenses incurred in doing so.<br><br>The conduct by the contractor of such negotiations or litigation shall be conditional upon the contractor having first given the principal agent such reasonable security as shall from time to time be required by the principal agent, to cover the amount ascertained or agreed or estimated, as the case may be, or any compensation, damage, expenses and costs for which the principal agent may become liable in respect of such infringement as aforesaid. The principal agent shall, at the request of the contractor, afford all available assistance for the purpose of contesting any such claim or action and shall be repaid the expenses incurred in doing so. | | |
| | | Item | |
| 1.1.100 | Note : The contractor is to ensure that the following requirements, as stated in the subcontractor documentation in respect of specialist equipment and services installations by specialist subcontractors under his control, are adhered to: | Item | |
| | **Carried forward** | R | |

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| | | | |
|---|---|---|---|
| | **Brought forward** | R | |
| 1.1.101 | All specialist plant and equipment, subject to the principal agents sole discretion, is subject to acceptance tests, which shall be arranged in the works of the subcontractor / supplier within 10 days of notification that such plant or equipment is available for testing . The subcontractor shall inform the principal agent in writing, indicating the exact dates for these acceptance tests during the course of the last month of manufacture of such plant or equipment.<br><br>In the event that the principal agent or his representatives cannot witness such tests, the employer may:<br><br>i) appoint a specialist inspection organisation to witness such tests at his expense on behalf of the principal agent or his representatives.<br><br>OR<br><br>ii) accept the subcontractors certificate testifying as to the quality and performance of the specialist plant / equipment so supplied.<br><br>Should no inspection have been made by the date indicated by the subcontractor as set out above, the equipment will be deemed as accepted and packed accordingly for delivery.<br><br>The final acceptance will take place on site in the presence of the subcontractor responsible for the commissioning of the equipment. The principal agents representative shall also be present.<br><br>The subcontractor shall demonstrate to the principal agent the full scope of operation of the installation and shall ensure that he is satisfied that the principal agent is fully aware of all the operational aspects of the installation prior to handover at practical completion stage.<br><br>The principal agents shall be afforded access at all reasonable times to such part of the works on site or at the subcontractor's premises or the premises of the manufacturer of component parts, as may be necessary for the purpose of inspecting, examining and testing the materials, workmanship and performance of any plant or equipment for the works.<br><br>The subcontractor shall be responsible for the tests required by any local statute, building regulation, etc.<br><br>Any breakdown or mechanical failure and any damage or consequential losses which may arise from such breakdown, mechanical or structural failure, will be the responsibility of the subcontractor. | Item | |
| | **Carried forward** | R | |

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|---|---|---|
| | **Brought forward** | R |
| 1.1.102 | The efficiency of the design is the responsibility of the subcontractor who shall ensure that the quality of workmanship and the installation of equipment meets the requirements of the specification and is done in such a manner that the equipment performance meets with the figures published by the manufacturers an/or suppliers. The subcontractor, by entering into this contract, shall be deemed to have offered his services, workmanship, materials and equipment to meet the requirements of the specification and shall further be deemed to have ensured that the suppliers and manufacturers of the equipment installed by him under this contract, have manufactured and supplied such equipment to perform within the recommended limits of the manufacturer's design and performance figures, as well as to comply with the specification supplied. | Item |
| 1.1.103 | The subcontractor shall guarantee the complete installation for a period of one year from the date of acceptance of the installation by the principal agent against defects as a result of patent or latent defects of the design and apparatus, as well as against faulty materials and workmanship. The guarantee must provide that all parts, spares, consumables and appurtenances that become defective during the guarantee period, be replaced free of charge of any nature to the employer. The costs of labour and transportation required to replace such part of a defective installation, shall be borne by the subcontractor and shall be included in his guarantee.<br><br>The expiry of the one year guarantee period shall in no way relieve the subcontractor of any of his obligations and/or responsibilities in respect of latent defects in terms of Clause A27 hereof.<br><br>The subcontractor shall cede to the employer the remainder of any equipment guarantee which he has received from his suppliers and which extends beyond the period of twelve months mentioned herein. | Item |
| 1.1.104 | The subcontractor shall commission and test the entire installation at his own expense, including provision of all test equipment. Such testing is to be done in the presence of the principal agent, who shall have been notified of the dates and approximate duration of the tests, sufficiently in advance so as to allow attendance at such tests | Item |
| | **<u>EXPANDED PUBLIC WORKS PROGRAMME</u>**<br><br>The Contractor shall study the guidelines for the implementation of labour-intensive infrastructure projects under the Expanded Public Works Programme (EPWP) attached to this document. The Contractor shall take note of the requirements and inform all selected and or other sub-contractors, as no claim afterwards will be entertained<br><br>F:..... V:..... T:..... | Item |
| | **Carried forward** | R |

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| **Brought forward** | R | |

**SUMMARY OF CATEGORIES**

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

| | | |
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| **Carried to Final Summary** | R | |

**Bill No. 1**
**PRELIMINARIES**
**PREPARED BY PROCO GROUP (PTY) LTD**

| Item No | Description | Quantity | Rate | Amount |
|---|---|---|---|---|
| | **SECTION NO. 2** | | | |
| | **BILL NO. 1** | | | |
| | **BULK EARTHWORKS** | | | |
| | **NOTE: For the purposes of tendering, only the total quantity shall be used in calculating the amount for inclusion in the tender at the tendered rate. The quantities in the description column immediately below the item represent the quantities per section for information and administration only as follows:** | | | |
| | **A - Type 1A-R - Grade Ablution Block** | | | |
| | **B - Type 2A-M - Male Ablution Block** | | | |
| | **C - Type 2A-S - Staff Ablution Block** | | | |
| | **D - Type 6A-F - Female Ablution Block** | | | |
| | **E - External Works** | | | |
| | **F - Budgetary Allowances** | | | |
| | **Preambles** | | | |
| | **Nature of ground** | | | |
| | Descriptions of excavations in "earth" shall be deemed to include all ground conditions as defined in the Geotech investigation to be reviewed and taken into account when pricing the items below. | | | |
| | **Carting away of excavated material** | | | |
| | Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site. | | | |
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| | **Carried forward** | | R | |

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|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **SITE CLEARANCE** | | | | |
| | **Site clearance** | | | | |
| 2.1.1 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc. | m2 | 610 | | |
| 2.1.2 | Stripping average 150mm thick layer of top soil and stockpiling on site | m2 | 610 | | |
| | **BULK EXCAVATION, FILLING, ETC** | | | | |
| | **Open face excavation in earth to reduce levels over sloping site** | | | | |
| 2.1.3 | Open face excavation over site to reduce levels including depositing material in areas of fill (Cut) and compacted to 98% Mod AASTHO dry density | m3 | 173 | | |
| 2.1.4 | Open face excavation over site to reduce levels including depositing material in areas of fill (Fill) and compacted to 98% Mod AASTHO dry density | m3 | 105 | | |
| | **PLATFORM LEVEL COMPACTION** | | | | |
| | **Compaction of surfaces** | | | | |
| 2.1.5 | Rip and scarify top 300mm layer of in-situ material including and additional suitable material where necessary, compacting to 95% Mod ASHTO density and trim to required level. | m2 | 610 | | |
| | **Prescribed density tests on filling** | | | | |
| 2.1.6 | "Modified AASHTO Density" test | No | 15 | | |
| | **CARTING AWAY** | | | | |
| | **Carried forward** | | | R | |

**Bill No. 1**
**BULK EARTHWORKS (PROVISIONAL)**
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|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **Extra over all excavations for carting away** | | | | |
| 2.1.7 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.( No allowance made for increase in bulk, to be factored in rate) | m3 | 55 | | |
| | **Carried Forward to Sectional Summary:** | | | R | |

**Bill No. 1**
**BULK EARTHWORKS (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| Item No | Description | Unit | Quantity | Rate | Amount |
|---|---|---|---|---|---|
| | **SECTION NO. 2** | | | | |
| | **BILL NO. 2** | | | | |
| | **EARTHWORKS (PROVISIONAL)** | | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | | |
| | **SUPPLEMENTARY PREAMBLES** | | | | |
| | **Classification of materials** | | | | |
| | The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "soft rock" or "hard rock" | | | | |
| | If the **contractor** considers that any of the excavations are more difficult in nature than excavations in "earth", he shall immediately notify the **Engineer** and quantity surveyor in writing. If the **contractor** fails to make such notification, the excavations shall be deemed to be in "earth" and shall be measured, and valued, accordingly. | | | | |
| | The **contractor** may, with the prior written permission of the **Engineer** and in terms of the conditions of contract, use any method he chooses to excavate any class of material, but his chosen method of excavation shall not determine the classification of the materials excavated. | | | | |
| | **Carting away of excavated material** | | | | |
| | Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site | | | | |
| | **Carried forward** | | | R | |

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|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **Keeping excavations free of water**<br><br>The **contractor** shall protect the excavations from the ingress of water. Any water which occurs in the excavations, whether as a result of seepage, rain, or other causes, shall immediately be removed by baling, pumping, or other approved means.<br><br>**Formwork**<br><br>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"<br><br>**Spescification**<br><br>Where BOQ item descriptions are in conflict with Engineers specification, Drawing "General Notes". Then the Engineers specification is to take preference. | | | | |
| | **EXCAVATION OTHER THAN BULK** | | | | |
| | **Excavation in earth not exceeding 2m deep** | | | | |
| 2.2.1 | Ground beams | m3 | 178 | | |
| 2.2.2 | Holes (latrine pit) | m3 | 352 | | |
| | **Excavation in earth exceeding 2m but not exceeding 4m deep** | | | | |
| 2.2.3 | Holes (latrine pit) | m3 | 62 | | |
| | **Extra over trench and hole excavations in earth for excavation in** | | | | |
| 2.2.4 | Soft rock | m3 | 66 | | |
| | **Carried forward** | | | R | |

**Bill No. 2**
**EARTHWORKS (PROVISIONAL)**
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| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| 2.2.5 | Hard rock | m3 | 134 | | |
| | **WORKING SPACE** | | | | |
| | **Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 95% Mod AASHTO density** | | | | |
| 2.2.6 | for placing and removing formwork not exceeding 1500mm deep etc. 300mm away from excavated face | m2 | 71 | | |
| | **Extra over back excavation in earth for working space for excavation in soft rock** | | | | |
| 2.2.7 | Back excavation in soft rock not exceeding 1500mm deep etc. 300mm away from excavated face | m2 | 4 | | |
| | **Extra over back excavation in earth for working space for excavation in hard rock** | | | | |
| 2.2.8 | Back excavation in hard rock not exceeding 1500mm deep etc. 300mm away from excavated face | m2 | 7 | | |
| | **CARTING AWAY** | | | | |
| | **Extra over all excavations for carting away** | | | | |
| 2.2.9 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.( No allowance made for increase in bulk, to be factored in rate) | m3 | 565 | | |
| | **RISK OF COLLAPSE** | | | | |
| | **Risk of collapse of excavations** | | | | |
| 2.2.10 | Sides of trench and hole excavations not exceeding 1,5m deep | m2 | 582 | | |
| 2.2.11 | Sides of trench and hole excavations exceeding 1,5m deep | m2 | 24 | | |
| | **KEEPING EXCAVATIONS FREE OF WATER** | | | | |
| | **Carried forward** | | | R | |

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**PREPARED BY PROCO GROUP (PTY) LTD**

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|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **Keeping excavations free of water** | | | | |
| 2.2.12 | Keeping excavations free of all water other than subterranean water | | Item | | |
| | **FILLING, ETC:** | | | | |
| | **Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density** | | | | |
| 2.2.13 | Backfilling to trenches, holes, etc | m3 | 160 | | |
| | **Layerworks** | | | | |
| 2.2.14 | Imported G5 filling material from commercial sources by the contractor in accordance with SABS 1200 and the Engineers specifications, compacted in 150mm layers, to 95% Mod AASHTO density | m3 | 51 | | |
| 2.2.15 | Imported G2 filling material from commercial sources by the contractor in accordance with SABS 1200 and the Engineers specifications, compacted in 150mm layers, to 95% Mod AASHTO density | m3 | 51 | | |
| | **COMPACTION** | | | | |
| | **Compaction of surfaces** | | | | |
| 2.2.16 | Trim, level off and 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 95% Mod AASHTO density | m2 | 508 | | |
| | **TESTS** | | | | |
| | **Prescribed density tests on filling** | | | | |
| 2.2.17 | "Modified AASHTO Density" test on request by the engineer | No | 10 | | |
| | **Carried forward** | | | R | |

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|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| 2.2.18 | "Field Density" test including "Optimum Moisture Content" (four readings per test) | No | 10 | | |
| | **SOIL POISONING** | | | | |
| | **Approved brand of anti-termite soil poison applied by a Registered Pest control company and guaranteed against termite infestation for ten years. Soil Insecticide in accordance with SANS 5859** | | | | |
| 2.2.19 | Poisoning of ground surfaces under floors against termites as described including raking out 50 mm deep v-shaped channel against inner face of walls, etc., and flooding with termite poisoning as described | m2 | 508 | | |
| 2.2.20 | To bottoms and sides of trenches etc | m2 | 722 | | |
| | **Carried Forward to Sectional Summary:** | | | R | |
| | **Bill No. 2**<br>**EARTHWORKS (PROVISIONAL)**<br>**PREPARED BY PROCO GROUP (PTY) LTD** | | | | |

| Item No | Description | Unit | Quantity | Rate | Amount |
|---|---|---|---|---|---|
| | **SECTION NO. 2** | | | | |
| | **BILL NO. 3** | | | | |
| | **CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)** | | | | |
| | **SUPPLEMENTARY PREAMBLES** | | | | |
| | **Cost of tests** | | | | |
| | The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately) | | | | |
| | **Concrete** | | | | |
| | Where concrete is described as "cast against excavated surfaces" the Contractor is to allow in his rates for additional concrete to make up this tolerance/overbreak. The final net volumes of concrete shall be measurable from drawings only and no claims with regard to additional concrete to compensate for tolerances shall be entertained | | | | |
| | Contractors are to include for any supplementary materials, placing, pumping, vibration or waste on placed quantities etc.. that are required in order to provide for a fully installed rate. (Net placed volumes are measured in the bills of quantities) | | | | |
| | **Carried forward** | | | R | |

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|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **Formwork**<br><br>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use<br><br>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.<br><br>Formworks to soffits of slabs etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described<br><br>Formwork to sides of footings, beams, column bases, columns, etc., in foundations is to be finally measured and paid for only where specifically instructed by the appointed Consultant Engineer **in writing**<br><br>**Specification**<br><br>Where BOQ item descriptions are in conflict with Engineers specification, Drawing "General Notes". Then the Engineers specification is to take preference. | | | | |
| | **UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES**<br><br>**15MPa/19mm concrete** | | | | |
| 2.3.1 | Surface blinding under footings and bases | m3 | 18 | | |
| | **REINFORCED CONCRETE CAST ON/IN FORMWORK** | | | | |
| | **Carried forward** | | | R | |

**Bill No. 3**
**CONCRETE, FORMWORK AND REINFORCEMENT (PR**
**PREPARED BY PROCO GROUP (PTY) LTD**

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|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **25MPa/19mm concrete** | | | | |
| 2.3.2 | Ground Beams | m3 | 56 | | |
| 2.3.3 | Raft Slab | m3 | 50 | | |
| 2.3.4 | Pit base | m3 | 35 | | |
| | **30MPa/19mm concrete** | | | | |
| 2.3.5 | Slabs including beams and inverted beams | m3 | 35 | | |
| | **CONCRETE SUNDRIES** | | | | |
| | **Test Blocks** | | | | |
| 2.3.6 | Making and testing 150 x 150 x 150mm concrete strength test cube | No | 38 | | |
| | **Sleeves** | | | | |
| 2.3.7 | 110mm Diameter pipe and socket cast in concrete formed of 130mm long black pipe uPVC welded to 100mm long uPVC pipe with single socket (LI) | No | 16 | | |
| | **Finishing top surfaces of concrete smooth with a wood float finish** | | | | |
| 2.3.8 | Surface beds, slabs, etc | m2 | 508 | | |
| | **FORMWORK** | | | | |
| | **ROUGH FORMWORK (DEGREE OF ACCURACY III)** | | | | |
| | **Rough formwork to sides** | | | | |
| 2.3.9 | Bases | m2 | 5 | | |
| | **Smooth formwork to sided and soffits** | | | | |
| 2.3.10 | Slabs not exceeding 250mm thick propped up not exceeding 3,5m high | m2 | 176 | | |
| | **Carried forward** | | | R | |

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|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **MOVEMENT JOINTS** | | | | |
| | **Expansion joints with polyethylene joint former "Jointex" between vertical concrete surfaces, including approved sealant all to Structural Engineer's approval** | | | | |
| 2.3.11 | 15mm Joints not exceeding 300mm wide | m | 163 | | |
| | **Saw cut joints** | | | | |
| 2.3.12 | 3 x 45mm Saw cut joints in top of concrete | m | 86 | | |
| | **REINFORCEMENT (PROVISIONAL)** | | | | |
| | **High tensile & Mild steel reinforcement to structural concrete work** | | | | |
| 2.3.13 | Various Diameter Bars | t | 14.41 | | |
| | **Fabric reinforcement** | | | | |
| 2.3.14 | Type 193 fabric reinforcement laid in surface beds, bases etc. | m2 | 332 | | |
| | **Carried Forward to Sectional Summary:** | | | R | |
| | **Bill No. 3**<br>**CONCRETE, FORMWORK AND REINFORCEMENT (PR**<br>**PREPARED BY PROCO GROUP (PTY) LTD** | | | | |

| Item No | Description | | Quantity | Rate | Amount |
|---|---|---|---|---|---|
| | **SECTION NO. 2** | | | | |
| | **BILL NO. 4** | | | | |
| | **PRECAST CONCRETE (PROVISIONAL)** | | | | |
| | **PRECAST CONCRETE COPINGS ETC** | | | | |
| | **"Winblok" modular precast concrete window surrounds etc finished smooth on exposed surfaces including bedding, jointing and pointing** | | | | |
| 2.4.1 | 190 x 190 x 190mm breeze block | m2 | 4 | | |
| | **Carried Forward to Sectional Summary:** | | | R | |
| | **Bill No. 4**<br>**PRECAST CONCRETE (PROVISIONAL)**<br>**PREPARED BY PROCO GROUP (PTY) LTD** | | | | |

| Item No | Description | Unit | Quantity | Rate | Amount |
|---|---|---|---|---|---|
| | **SECTION NO. 2** | | | | |
| | **BILL NO. 5** | | | | |
| | **MASONRY (PROVISIONAL)** | | | | |
| | **SUPPLEMENTARY PREAMBLES** | | | | |
| | **Sizes in descriptions** | | | | |
| | Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick. | | | | |
| | **Specification** | | | | |
| | Where BOQ item descriptions are in conflict with Engineers specification, Drawing "General Notes". Then the Engineers specification is to take preference. | | | | |
| | **Hollow walls** | | | | |
| | Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole | | | | |
| | Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixeal" bitumen emulsion waterproofing coating | | | | |
| | **Face bricks** | | | | |
| | Bricks shall be ordered timeously to obtain uniformity in size and colour | | | | |
| | **Pointing** | | | | |
| | Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc | | | | |
| | **Carried forward** | | | R | |

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **BLOCKWORK** | | | | |
| | Concrete masonry units | | | | |
| | Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength as indicated in item descriptions | | | | |
| | Blockwork | | | | |
| | Blockwork shall comply with SANS 10145 "Concrete Masonry Construction" | | | | |
| | **FOUNDATIONS** | | | | |
| | **BRICKWORK** | | | | |
| | **Brickwork of NFX (14 MPa nominal compressive strength) clay imperial bricks in cement mortar** | | | | |
| 2.5.1 | One brick wall | m2 | 160 | | |
| | **SUPERSTRUCTURE** | | | | |
| | **BRICKWORK** | | | | |
| | **Brickwork of NFP clay bricks in class II mortar** | | | | |
| 2.5.2 | Half brick walls | m2 | 204 | | |
| 2.5.3 | Half brick wall in beamfilling | m2 | 66 | | |
| 2.5.4 | One brick walls formed from two 90mm skins including wall ties | m2 | 890 | | |
| | **BRICKWORK SUNDRIES** | | | | |
| | **Carried forward** | | | R | |

**Bill No. 5**
**MASONRY (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **Bagging of 1:3 cement and sand mixture** | | | | |
| 2.5.5 | On outer face of inner skin of brick walls including any additional labour required in raising wall in two separate skins and working around wire ties and / or brick reinforcing fabric (LI) | m2 | 860 | | |
| 2.5.6 | Splayed mortar fillet two courses high in 100mm cavity | m | 123 | | |
| | **Slip joints** | | | | |
| 2.5.7 | 230mm Wide horizontal slip joints at junction of slabs and loadbearing brick walls consisting of two layers of 3 Ply Malthoid between concrete and masonry surfaces | m | 342 | | |
| | **Brickwork reinforcement** | | | | |
| 2.5.8 | 75mm Wide reinforcement built in horizontally | m | 1 217 | | |
| 2.5.9 | 150mm Wide reinforcement built in horizontally | m | 5 345 | | |
| | **Prestressed fabricated concrete lintels including temporary "Turning piece" supports** | | | | |
| 2.5.10 | 110 x 75mm Lintels in lengths not exceeding 3m long | m | 160 | | |
| | **Turning pieces** | | | | |
| 2.5.11 | 230mm Wide turning piece to lintels, etc. | m | 161 | | |
| | **Galvanised wire ties etc** | | | | |
| 2.5.12 | 30 x 1.6mm Roof tie 1.6m long with one end built into brickwork and other end fixed to timber | No | 77 | | |
| | **Air bricks etc** | | | | |
| 2.5.13 | 229 x 152mm Terra-cotta vermin proof air brick | No | 16 | | |
| | **FACE BRICKWORK** | | | | |
| | **Carried forward** | | | R | |

**Bill No. 5**
**MASONRY (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **"Corobrick" Face brick (purchase price of R 7920/500 delivered to site excluding VAT) pointed with flush horizontal and vertical joints** | | | | |
| 2.5.14 | Extra over brickwork for face brickwork (LI) | m2 | 441 | | |
| 2.5.15 | Extra over brickwork for brick-on-edge header course lintel | m | 129 | | |
| 2.5.16 | Extra over brickwork for face brick piers | m3 | 2 | | |
| | **Brick-on-edge header course copings, sills, etc. of "Corobrik Firelight Satin" or equal and approved face bricks pointed with recessed joints on all exposed faces** | | | | |
| 2.5.17 | 200mm Brick on edge cill laid on class II mortar including brickgrip DPC, etc. set sloping and slightly projecting | m | 33 | | |
| | **"NUTEC" OR EQUAL AND APPROVED FIBRE-CEMENT WINDOW SILLS** | | | | |
| | **Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc** | | | | |
| 2.5.18 | 20 x 200mm Wide sills set flat and slightly projecting | m | 33 | | |
| | **Carried Forward to Sectional Summary:** | | | R | |

**Bill No. 5**
**MASONRY (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| Item No | Description | Unit | Quantity | Rate | Amount |
|---|---|---|---|---|---|
| | **SECTION NO. 2** | | | | |
| | **BILL NO. 6** | | | | |
| | **WATERPROOFING (PROVISIONAL)** | | | | |
| | **SUPPLEMENTARY PREAMBLES** | | | | |
| | **GENERAL** | | | | |
| | PREPARATION : All surfaces to receive waterproofing are to be thoroughly cleaned down to remove grease spots, concrete laitance, etc., wire brushed and free from dust and loose material and thoroughly dry before commencement of any waterproofing. | | | | |
| | SPECIALIST WATERPROOFER : The waterproofer shall apply the waterproofing and secondary materials in accordance with application techniques which are approved by the manufacturer of the waterproofing. | | | | |
| | **Carried forward** | | | R | |

**Bill No. 6**
**WATERPROOFING (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| | | | | |
|---|---|---|---|---|
| **Brought forward** | | | R | |
| **MATERIALS** | | | | |
| **GENERAL :** All waterproofing to be layed in accordance with SABS 021-1973 "The Waterproofing of Buildings". | | | | |
| **BITUMEN :** Bitumen primer is to be spread at a rate of 0,3 litres per m² and allowed to dry before the waterproof sheeting is laid. | | | | |
| **WATERPROOF SHEETING :** Tenderers must allow for the design, supply and installation of all waterproofing for areas included . Tenderers are to include for the preparation of the substrate in accordance with manufacturers specifications. | | | | |
| Proprietary waterproofing specifications available to tenderers include, but is not limited to, Derbigum, Index, Bituthene. Any proposed specification, which must have a proven track record, shall be submitted to the Principal Agent for comment and record purposes. The sub-contractor shall be an approved applicator of the chosen system/specification. The manufacturer is required to do regular inspections and be present at all flood and drench tests." | | | | |
| **PROTECTION** | | | | |
| All necessary precautions are to be taken for the protection of completed work. | | | | |
| **PRICES** | | | | |
| Prices are to include for all preparation of surfaces to receive waterproofing, preparation of surfaces between layers and for cleaning off on completion. | | | | |
| Prices are to include for lapping and sealing, etc. and all cutting and waste. | | | | |
| **WATERPROOFING GUARANTEE** | | | | |
| GUARANTEE : The Contractor shall furnish a 10 year waterproofing guarantee for all the waterproofing including flashings, outlets and other details installed. | | | | |
| **Carried forward** | | | R | |

**Bill No. 6**
**WATERPROOFING (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **DAMP-PROOFING OF WALLS AND FLOORS** | | | | |
| | **One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course** | | | | |
| 2.6.1 | In walls, in cavities, in lintels, under copings, under sills, etc. | m2 | 694 | | |
| | **One layer of 250 micron "Consol Plastics Gunplas USB Green" or equally approved waterproof sheeting sealed at laps with a suitable self adhesive tape** | | | | |
| 2.6.2 | Under surface beds including turn ups | m2 | 332 | | |
| | **One layer 375 'Hyperstatic Orange' or equal and approved DPM with 3mm masonite protection** | | | | |
| 2.6.3 | Vertically between walls (LI) | m2 | 302 | | |
| | **Two coats "ABE Brixeal" or equal and approved bitumen emulsion waterproof coating** | | | | |
| 2.6.4 | On brick walls | m2 | 842 | | |
| | **JOINT SEALANTS ETC** | | | | |
| | **Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc** | | | | |
| 2.6.5 | 13 x 13mm In expansion joints in vertical concrete / brick surfaces including raking out expansion joint filler as necessary | m | 163 | | |
| 2.6.6 | 3 x 45mm In saw cut joints in floors | m | 86 | | |
| | **Carried Forward to Sectional Summary:** | | | R | |

**Bill No. 6**
**WATERPROOFING (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| Item No | Description | | Quantity | Rate | Amount |
|---|---|---|---|---|---|
| | **SECTION NO. 2** | | | | |
| | **BILL NO. 7** | | | | |
| | **ROOF COVERINGS, ETC.(PROVISIONAL)** | | | | |
| | **SUPPLEMENTARY PREAMBLES** | | | | |
| | **Corrugated metal sheeting and accessories** | | | | |
| | Roof sheeting systems are to be manufactured in strict accordance with the supplier's specifications | | | | |
| | Fixing of all roof sheeting is to be in accordance with the manufacturer's approved instruction book | | | | |
| | The manufacturer shall comply with ISO9002 Quality Management System | | | | |
| | **PROFILED METAL SHEETING AND ACCESSORIES** | | | | |
| | **1. 7 Degrees , Mono-pitch style 0.8mm Zinc alum broad flute IBR Finish: Chromodek pre-coated roof sheeting (Storm Grey) finish to one side in single lengths fixed to timber purlins (elsewhere measured) and fixed strictly in accordance with the manufacturer's instructions** | | | | |
| 2.7.1 | Roof covering with pitch not exceeding 18 degrees | m2 | 239 | | |
| 2.7.2 | Standard galvanised ridge capping (550mm girth) screwed through sheeting to purlins (LI) | m | 27 | | |
| 2.7.3 | Sondor IBR pattern polyclosures to underside of ridge capping | m | 54 | | |
| | **ROOF AND WALL INSULATION** | | | | |
| | **Carried forward** | | | R | |

**Bill No. 7**
**ROOF COVERINGS (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **"Sisalation FR430" or equal and approved Heavy Industrial Grade Aluminum Foil based insulation** | | | | |
| 2.7.4 | Insulation laid taut over purlins and fixed concurrent with roof covering including galvanised steel straining wires | m2 | 239 | | |
| | **Carried Forward to Sectional Summary:** | | | R | |

**Bill No. 7**
**ROOF COVERINGS (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| Item No | Description | | Quantity | Rate | Amount |
|---|---|---|---|---|---|
| | **SECTION NO. 2** | | | | |
| | **BILL NO. 8** | | | | |
| | **CARPENTRY AND JOINERY (PROVISIONAL)** | | | | |
| | **PREFABRICATED TIMBER ROOF TRUSSES, ETC** | | | | |
| | **NOTE**: | | | | |
| | Timber roof trusses are to comply with SABS Code of Practice 0243. (The design, manufacture and erection of timber trusses, including nail-plated and bolted trusses with lapped members). | | | | |
| | The following is applicable in respect of roof trusses: | | | | |
| | Trusses are at maximum 1200mm centres. Roof covering is IBR profiled metal sheeting colour one side on 50 x 76mm purlins. Ceilings are nailed gypsum plasterboard on brandering. | | | | |
| | The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from site before design or fabrication commences | | | | |
| | **Design and supply plate nailed timber roof trusses** | | | | |
| 2.8.1 | Design, supply and install roof truss system complete in accordance with the Standard Building Regulations, including cross battens at hips, valleys, etc. fixed to trusses with and including ring shank nails, hurricane clips at exposed sections and at ridges, temporary and permanent bracing, etc. to suit roof area approximate size **62m2 (on flat floor area inclusive of overhangs) - Boys Ablutions** | No | 1 | | |
| | **Carried forward** | | | R | |

**Bill No. 8**
**CARPENTRY AND JOINERY(PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| 2.8.2 | Design, supply and install roof truss system complete in accordance with the Standard Building Regulations, including cross battens at hips, valleys, etc. fixed to trusses with and including ring shank nails, hurricane clips at exposed sections and at ridges, temporary and permanent bracing, etc. to suit roof area approximate size **43m2 (on flat floor area inclusive of overhangs) - Staff Ablution Block** | No | 1 | | |
| 2.8.3 | Design, supply and install roof truss system complete in accordance with the Standard Building Regulations, including cross battens at hips, valleys, etc. fixed to trusses with and including ring shank nails, hurricane clips at exposed sections and at ridges, temporary and permanent bracing, etc. to suit roof area approximate size **64m2 (on flat floor area inclusive of overhangs) - Girls JNR & SNR Ablutions** | No | 1 | | |
| 2.8.4 | Design, supply and install roof truss system complete in accordance with the Standard Building Regulations, including cross battens at hips, valleys, etc. fixed to trusses with and including ring shank nails, hurricane clips at exposed sections and at ridges, temporary and permanent bracing, etc. to suit roof area approximate size **54m2 (on flat floor area inclusive of overhangs) - Girls JNR Ablutions** | No | 1 | | |
| | **ROOF, ETC** | | | | |
| | **Truss certificates** | | | | |
| 2.8.5 | Allowance for the issue of TR1 and TR2 certificates after completion of entire roof installation, signed by a competent person | No | 4 | | |
| | **Wrought softwood** | | | | |
| 2.8.6 | 38 x 114mm Wall plates | m | 54 | | |
| 2.8.7 | 76 x 50mm Purlins | m | 362 | | |
| 2.8.8 | 76 x 76mm Splayed gutter purlins | m | 81 | | |
| | **Carried forward** | | | R | |

**Bill No. 8**
**CARPENTRY AND JOINERY(PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| 2.8.9 | 38 x 114mm Timber backing board fixed onto rafter for facsia boards | m | 125 | | |
| 2.8.10 | 50 x 330mm Saligna Glulam laminated timber beam fixed above mild steel post to support roof trusses and welded to steel base plate at bottom. | m | 81 | | |
| | **EAVES, VERGES, ETC.** | | | | |
| | **Medium density fibre reinforced cement boards to comply with SANS 10400 Part L** | | | | |
| 2.8.11 | 12mm x 300mm Fascia boards including aluminium H-profile fascia joiners fixed with galvanised screws and washers | m | 81 | | |
| 2.8.12 | 12mm x 300mm Barge boards including H-profile jointing strips | m | 44 | | |
| | **DOORS, ETC.** | | | | |
| | Note: Tenderers to refer to the architects drawings when pricing items below: | | | | |
| | **Vertical Slatted Meranti Single swing stable timber door, in 2 equal halves fit for GMS steel frame, hung on hinges as per ironmongery schedule. (to receive varnish, measured elsewhere), hung to steel frames** | | | | |
| 2.8.13 | 44mm Thick door size 813 x 2032mm High (D1) | No | 7 | | |
| | **Standard External Quality hardwood Meranti framed, ledged and braced batterned door with 40 x 110mm style and top rail, 20 150mm middle ledge, 20 x 225mm bottom ledge and 20 x 110mm braces fit for GMS steel frame, hung on hinges as per ironmongery schedule (to receive primer and paint, measured elsewhere), hung to steel frames** | | | | |
| 2.8.14 | 44mm Thick door size 813 x 2032mm High (D3) | No | 2 | | |
| | **Carried forward** | | | R | |

**Bill No. 8**
**CARPENTRY AND JOINERY(PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **15 Line horizontal Deep Groove Laminated semi solid chip core timber Door fit for GMS steel frame with 882 x 630mm aluminium frame viewing panel as per ironmongery schedule** | | | | |
| 2.8.15 | 44mm Thick semi-solid flush panel door size 813 x 2032mm high (D3) | No | 26 | | |
| | **Carried Forward to Sectional Summary:** | | | R | |

**Bill No. 8**
**CARPENTRY AND JOINERY(PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| Item No | Description | Quantity | Rate | Amount |
|---|---|---|---|---|
| | **SECTION NO. 2** | | | |
| | **BILL NO. 9** | | | |
| | **CEILINGS & PARTITIONS (PROVISIONAL)** | | | |
| | **SUPPLEMENTARY PREAMBLES** | | | |
| | Pricing of Bills | | | |
| | Tenderers are advised to inspect the drawings issued with this enquiry and to satisfy themselves as to the nature and requirements of the contract. No extras will be allowed due to the Contractor's failure in this respect. | | | |
| | Quantities contained in these Bills of Quantities are only indicative of the actual final quantities required and shall not be used for ordering purposes. | | | |
| | The descriptions contained in these Bills of Quantities are intended as a means of identifying the various facets of the work. Tenderers shall allow for all costs in connection with the various items taking full cognizance of drawings, schedule of finishes and the Bills of Quantities descriptions. | | | |
| | Final measurement shall be made from construction drawings or from measurements taken on site. | | | |
| | Fixing | | | |
| | Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete. | | | |
| | Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere. | | | |
| | **Carried forward** | | R | |

| | | | |
|---|---|---|---|
| **Brought forward** | | R | |
| Ceilings | | | |
| All units shall be readily removable from either side without disturbing adjacent units. | | | |
| Unless otherwise described ceilings shall be deemed to be horizontal. | | | |
| Proprietary suspended ceilings | | | |
| Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations. | | | |
| Electrical light fittings, diffusers, panels etc are generally "lay-in" units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof). | | | |
| Flush plastered gypsum plasterboard suspended ceilings | | | |
| Ceilings shall comprise 9mm and 12mm gypsum plasterboard boards screwed to and including screw-up suspension grid consisting of main tees at 1 200mm centres and galvanised steel capped cross tees at 400mm centres and with tape fixed over joints and the whole finished with gypsum plaster trowelled to a smooth polished surface. | | | |
| The grid shall be suspended by means of galvanised steel L-section hangers at suitable centres, securely shot-pinned or screwed to concrete, steel or wood. | | | |
| The tenderers are to allow for a continuous corner bead edge trim to the exposed plasterboard edges. | | | |
| **Carried forward** | | R | |

**Bill No. 9**
**CEILINGS (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | Flush plastered gypsum plasterboard suspended bulkheads | | | | |
| | Bulkheads shall comprise galvanised steel studding of 63,5mm top and bottom tracks with vertical studs at maximum 400mm centres, pop-riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc and covered as described with plasterboard screwed to studding with drywall screws at maximum 300mm centres. Boards shall be butt jointed and finished with tape and jointing compound and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer. | | | | |
| | Descriptions shall be deemed to include any additional studs at ends and intersections, corner beads, cornices at junctions with ceilings, jointing compound, tape, etc. | | | | |
| | Steel components | | | | |
| | All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121. | | | | |
| | **NAILED UP CEILINGS** | | | | |
| | **GYPSUM CEILINGS** | | | | |
| | **6,4mm Gypsum plasterboard ceiling with H-profile galvanised steel joint strips including 38 x 50mm sawn softwood brandering at 400mm centres** | | | | |
| 2.9.1 | Ceilings including standard steel brandering at 450mm centres in one direction only, joined with joiner sections and hung with suspension brackets including standard steel perimeter angles fixed to walls etc | m2 | 225 | | |
| 2.9.2 | Extra over ceiling for 600 x 600mm trap door including rebated framing cross branders covered with ceiling board and fitted flush in opening | No | 6 | | |
| | **CORNICE** | | | | |
| | **Carried forward** | | | R | |

**Bill No. 9**
**CEILINGS (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **Gypsum plasterboard cornices** | | | | |
| 2.9.3 | 65mm Coved cornices | m | 315 | | |
| | **Carried Forward to Sectional Summary:** | | | R | |

**Bill No. 9**
**CEILINGS (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| Item No | Description | | Quantity | Rate | Amount |
|---|---|---|---|---|---|
| | **SECTION NO. 2** | | | | |
| | **BILL NO. 10** | | | | |
| | **IRONMONGERY (PROVISIONAL)** | | | | |
| | Note: All ironmongery shall be for heavy duty use and must be in anodized aluminium or stainless steel 1.2/1.5 thick Grade 304 Satin Stainless Steel | | | | |
| | **HINGES, BOLTS, ETC** | | | | |
| | **"Union/Assa Abloy" or equal and approved** | | | | |
| 2.10.1 | "HNFL-403020-SAA" 100 x 73 x 3mm Skinless aluminium hinge | No | 105 | | |
| | **LOCKS** | | | | |
| | **"Union" or equal and approved** | | | | |
| 2.10.2 | "LH8882" Deadbolt latch lock including cylinder | No | 8 | | |
| 2.10.3 | "SS5004-73SS" Escutcheon on rose bathroom | No | 3 | | |
| 2.10.4 | "2252-76SS" three-lever lock | No | 35 | | |
| | **"Yale" or equal and approved** | | | | |
| 2.10.5 | "Y220B/51/118/3" 51mm weather padlock PK3 | No | 3 | | |
| | **HANDLES** | | | | |
| | **"Union" or equal and approved** | | | | |
| 2.10.6 | "SS6SG01-44-24SS" Seagull SS lever handle back on backplate | No | 26 | | |
| | **SUNDRIES** | | | | |
| | **Carried forward** | | | R | |

**Bill No. 10**
**IRONMONGERY (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **"Union" or equal and approved** | | | | |
| 2.10.7 | "AL8730AS" Brushed stainless steel floor door stop with rubber surround | No | 35 | | |
| | **LETTERS, NAMEPLATES, ETC.** | | | | |
| | **Signage** | | | | |
| 2.10.8 | 152 x 152 x 1.2mm "SP5066-06SSSE12" Male/Female sign solid | No | 27 | | |
| 2.10.9 | 152 x 152 x 1.2mm "SP5066-06SSE14" Paraplegic sign | No | 3 | | |
| | **BATHROOM FITTINGS** | | | | |
| | **"Volkem Sani" or equal and approved** | | | | |
| 2.10.10 | **"Volkem Sani"** 140mm x 160mm x 160mm x 400mm high wall mounted white epoxy coated steel lockable 3 Roll toilet holder for Classic white range with durable and vandal proof with Anti-theft bracket. | No | 33 | | |
| 2.10.11 | **"Volkem Sani"** Code: PH-QUA-001 size 290mm x 220mm x 363 Quartz manual wall mounted paper towel dispenser | No | 4 | | |
| 2.10.12 | **"Volkem Sani"** Code: SAT137 silver steel wall bin 27 litres waste bin | No | 4 | | |
| 2.10.13 | **"Volkem Sani"** Code: WABI-1011 size 330mm x 280mm x 180mm 15 litre stainless steel sanitary bin | No | 22 | | |
| | **"Vaal" or equal and approved** | | | | |
| 2.10.14 | 300mm x 300 x 300mm x 50mm "Code: KB26" stainless steel dog leg side wall grab rail, plugged and screwed to wall with concealed fixings. | No | 2 | | |
| 2.10.15 | 800mm x 50mm "Code: KB18" projecting stainless steel straight grab rail, plugged and screwed to wall with concealed fixings. | No | 2 | | |
| | **Carried forward** | | | R | |

**Bill No. 10**
**IRONMONGERY (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| 2.10.16 | 750mm x 250mm x 32mm "8940Z000" Pearl paraplegic brushed stainless steel rail, plugged and screwed to wall with concealed fixings. | No | 2 | | |
| | **Carried Forward to Sectional Summary:** | | | R | |

**Bill No. 10**
**IRONMONGERY (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| Item No | Description | | Quantity | Rate | Amount |
|---|---|---|---|---|---|
| | **SECTION NO. 2** | | | | |
| | **BILL NO. 11** | | | | |
| | **METALWORK (PROVISIONAL)** | | | | |
| | **WELDED GALVANISED STEEL SCREENS, GATES, ETC.** | | | | |
| | **Screens and gates** | | | | |
| 2.11.1 | Single gate size 900 x 2100mm high of 50x50x3mm square tube sections welded together to form the outer frame. Gate outer frame to be bolted to the wall with raw-bolts. Once bolted to the wall, close cut out with a rubber stopper. All ends of the frame to be closed. The outer frame must be clear of the overall door frame width. Clear opening to be 900mm (G01) | No | 8 | | |
| | **HOT DIPPED GALVANISED MILD STEEL DOOR FRAMES** | | | | |
| | **1,6mm Double rebated pressed steel door frames suitable for one brick walls** | | | | |
| 2.11.2 | Frame for door size 813 x 2032mm high | No | 9 | | |
| | **1,6mm Double rebated pressed steel door frames suitable for half brick walls** | | | | |
| 2.11.3 | Frame for door size 813 x 2032mm high | No | 26 | | |
| | **GALVANISED STEEL WINDOWS, DOORS, ETC** | | | | |
| | Note: Tenderers to refer to the architects drawings when pricing items below: | | | | |
| | **SS industrial type windows** | | | | |
| 2.11.4 | Window type SS11, 630 x 457mm high (W01) | No | 54 | | |
| | **Carried Forward to Sectional Summary:** | | | R | |
| | **Bill No. 11**<br>**METALWORK (PROVISIONAL)**<br>**PREPARED BY PROCO GROUP (PTY) LTD** | | | | |

| Item No | Description | Unit | Quantity | Rate | Amount |
|---|---|---|---|---|---|
| | **SECTION NO. 2** | | | | |
| | **BILL NO. 12** | | | | |
| | **PLASTERING (PROVISIONAL)** | | | | |
| | **SUPPLEMENTARY PREAMBLES** | | | | |
| | **GENERAL** | | | | |
| | V-Joints or the like between brick and concrete surfaces shall be deemed to be included in the external plaster on walls rate. | | | | |
| | **SCREEDS** | | | | |
| | **Screeds steel trowelled on concrete** | | | | |
| 2.12.1 | 30mm Thick on floors | m2 | 508 | | |
| | **GRANOLITHIC** | | | | |
| | **Untinted granolithic, on concrete** | | | | |
| 2.12.2 | 35mm Thick on floors and landings | m2 | 225 | | |
| | **INTERNAL PLASTER** | | | | |
| | **Cement plaster on brickwork, blockwork or concrete finished with a steel trowel** | | | | |
| 2.12.3 | On walls and brick piers | m2 | 741 | | |
| 2.12.4 | On narrow widths | m2 | 27 | | |
| | **EXTERNAL PLASTER** | | | | |
| | **Carried forward** | | | R | |

**Bill No. 12**
**PLASTERING (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **Light lace textured millimixed coloured cement plaster "stucco" with approved colouring pigment mixed into the plaster, of uniform appearance and consistent colour throughout, wood floated, on brickwork/concrete)** | | | | |
| 2.12.5 | On walls | m2 | 323 | | |
| | **Carried Forward to Sectional Summary:** | | | R | |

**Bill No. 12**
**PLASTERING (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| Item No | Description | Quantity | Rate | Amount |
|---|---|---|---|---|
| | **SECTION NO. 2** | | | |
| | **BILL NO. 13** | | | |
| | **FLOOR AND WALL TILING (PROVISIONAL)** | | | |
| | **SUPPLEMENTARY PREAMBLES** | | | |
| | **Site Visit** | | | |
| | The tenderer is advised to visit the site and acquaint themselves fully as to the conditions on site and working times as no claims in this regard will be entertained. | | | |
| | **Pricing of Bills** | | | |
| | Tenderer is to allow an adequate wastage factor when pricing. Any deviation of the quantities as a result of wastage is to be factored into the rates. | | | |
| | Tenderer is advised to inspect the drawings issued with this enquiry and to satisfy themselves as to the nature and requirements of the contract. No extras will be allowed due to the Contractor's failure in this respect. | | | |
| | Quantities contained in these Bills of Quantities are only indicative of the actual final quantities required and shall not be used for ordering purposes. | | | |
| | The descriptions contained in these Bills of Quantities are intended as a means of identifying the various facets of the work. Tenderer shall allow for all costs in connection with the various items taking full cognizance of drawings, schedule of finishes and the Bills of Quantities descriptions. | | | |
| | Final measurement shall be made from construction drawings or from measurements taken on site. | | | |
| | **Carried forward** | | R | |

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **Tile Specifications**<br><br>Tenderer is advised that the skirting is to be cut under a controlled factory environment to ensure the quality of the cut is even across all individual sections. | | | | |
| | **WALL TILING** | | | | |
| | **400 x 400mm Glazed ceramic tiles or similar approved ceramic wall tiles (Allow PC of R200/m² in the rate for supply and delivery to site, excluding VAT) fixed with adhesive on brickwork including cement plaster backing (plaster measured elsewhere) and flush pointed with tinted blue grout** | | | | |
| 2.13.1 | On walls in isolated panels, splashbacks, etc | m2 | 13 | | |
| | **Carried Forward to Sectional Summary:** | | | R | |

**Bill No. 13**
**TILING (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| Item No | Description | | Quantity | Rate | Amount |
|---|---|---|---|---|---|
| | **SECTION NO. 2** | | | | |
| | **BILL NO. 14** | | | | |
| | **PLUMBING AND DRAINAGE (PROVISIONAL)** | | | | |
| | **PLUMBING** | | | | |
| | **NOTE:** Prices for sanitary fittings fixed to walls or abutting walls, etc. shall include for sealing against walls with silicone sealing compound. This shall apply to wash hand basins, sinks and drainers, urinals, WC cisterns, wash troughs, shower trays and the like | | | | |
| | **RAINWATER DISPOSAL** | | | | |
| | **'Seamless' aluminium gutters** | | | | |
| 2.14.1 | OGEE 125 x 75mm 0.6mm Seamless aluminium proprietary eaves eaves gutters with baked enamel finished fixed with concealed brackets | m | 81 | | |
| 2.14.2 | Extra over eaves gutter for stopped ends | No | 16 | | |
| 2.14.3 | Extra over eaves gutter for drop box suitable 155 x 100mm box gutter | No | 14 | | |
| | **Aluminium downpipes** | | | | |
| 2.14.4 | 100 x 75mm 0.6mm Fluted aluminium downpipes with baked enamel finish | m | 49 | | |
| 2.14.5 | Extra over rainwater downpipes for bends | No | 28 | | |
| 2.14.6 | Extra over rainwater downpipes for shoes | No | 14 | | |
| | **SANITARY FITTINGS** | | | | |
| | Note: Tenderers to refer to architect's drawings when pricing items below | | | | |
| | **Carried forward** | | | R | |

**Bill No. 14**
**PLUMBING AND DRAINAGE (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **"Atlas Plastics (Pty) Ltd" or equal and approved** | | | | |
| 2.14.7 | Atlas "VIP 200" (code 222AP) pedestal with footpiece complete with seat and lid screwed in precast slab including inlet funnel (code 224AP) riveted to shaft (LI) | No | 28 | | |
| 2.14.8 | Atlas 507 AP bowl urinal C/W 496 AP waterless urinal fitting, waste, etc complete (LI) | No | 8 | | |
| 2.14.9 | Atlas Plastics "Christy" (Code 945AP) wash hand basin with splashback, colour Granite, overall size 580 x 410mm wide with 2 tap holes and 40mm waste outlet, plugged and screwed to wall with galvanised screws and brackets (LI) | No | 22 | | |
| | **SANITARY PLUMBING** | | | | |
| | **Black uPVC UV stabilised pipes** | | | | |
| 2.14.10 | 110mm Vent pipes | m | 168 | | |
| | **Extra over Black uPVC UV stabilised pipes for fittings** | | | | |
| 2.14.11 | Vent cowl formed of 110mm vent valve with top cut off and black shade cloth fixed over end of vent pipe | No | 28 | | |
| | **uPVC pipes** | | | | |
| 2.14.12 | 50mm Pipes | m | 440 | | |
| | **Extra over uPVC pipes for fittings** | | | | |
| 2.14.13 | 50mm Bend | No | 110 | | |
| 2.14.14 | 50mm Access bend | No | 22 | | |
| 2.14.15 | 50mm Junction | No | 22 | | |
| | **TRAPS ETC** | | | | |
| | **Carried forward** | | | R | |

**Bill No. 14**
**PLUMBING AND DRAINAGE (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **Rubber** | | | | |
| 2.14.16 | 50mm "P" or "S" trap | No | 22 | | |
| | **WASTE UNIONS, ETC.** | | | | |
| | **"Cobra Watertech" or equal and approved** | | | | |
| 2.14.17 | COBRA WATERTECH 32mm chrome plated basin waste (code: 308) with 62mm diameter flange, 80mm long shank and plug. | No | 22 | | |
| | **TAPS, VALVES, ETC** | | | | |
| | **"Cobra Watertech" or equal and approved** | | | | |
| 2.14.18 | 15mm Chromium plated "Star" basin tap (Code 211-15) | No | 22 | | |
| | **WATER SUPPLIES** | | | | |
| | **Pipes laid below ground including excavations, backfill, etc. complete** | | | | |
| | **Class 12 HDPE pipes** | | | | |
| 2.14.19 | 25mm Pipe | m | 440 | | |
| 2.14.20 | 50mm Pipe | m | 220 | | |
| | **Extra over Class 12 HDPE pipes for fittings** | | | | |
| 2.14.21 | 25mm Bends | No | 110 | | |
| 2.14.22 | 50mm Bends | No | 55 | | |
| 2.14.23 | 25mm Tee | No | 110 | | |
| | **FIRE APPLIANCES ETC** | | | | |
| 2.14.24 | 4.5 Kg Wall Mounted DCP Fire Extinguisher HD PVC Bracket Combo, Rawle Bolted to Wall | No | 5 | | |
| | **Carried forward** | | | R | |

**Bill No. 14**
**PLUMBING AND DRAINAGE (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| | | | | |
|---|---|---|---|---|
| | **Brought forward** | | R | |
| | **TESTING** | | | |
| 2.14.25 | Allow for testing the whole of the sanitary plumbing and water supply | Item | | |
| | **Carried Forward to Sectional Summary:** | | R | |

**Bill No. 14**
**PLUMBING AND DRAINAGE (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| Item No | Description | | Quantity | Rate | Amount |
|---|---|---|---|---|---|
| | **SECTION NO. 2** | | | | |
| | **BILL NO. 15** | | | | |
| | **GLAZING (PROVISIONAL)** | | | | |
| | **GLAZING TO WOOD/STEEL WITH PUTTY** | | | | |
| | **6mm Thick obscure safety glass** | | | | |
| 2.15.1 | Panes exceeding 0,5m² and not exceeding 2m² | m2 | 16 | | |
| | **MIRRORS, ETC** | | | | |
| | **6mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete** | | | | |
| 2.15.2 | Mirror 450 x 600mm high | No | 22 | | |
| | **Carried Forward to Sectional Summary:** | | | R | |
| | **Bill No. 15**<br>**GLAZING (PROVISIONAL)**<br>**PREPARED BY PROCO GROUP (PTY) LTD** | | | | |

| Item No | Description | Quantity | Rate | Amount |
|---|---|---|---|---|
| | **SECTION NO. 2** | | | |
| | **BILL NO. 16** | | | |
| | **PAINTWORK (PROVISIONAL)** | | | |
| | **SUPPLEMENTARY PREAMBLES** | | | |
| | PRICING OF BILLS | | | |
| | Tenderers are advised to inspect the drawings issued with this enquiry and to satisfy themselves as to the nature and requirements of the contract. No extras will be allowed due to the Contractor's failure in this respect. | | | |
| | The Contractor shall be responsible for adequately protecting his work during installation and shall provide a suitable protective covering to be removed when so directed by the Main Contractor. | | | |
| | Quantities contained in these Bills of Quantities are only indicative of the actual final quantities required and shall not be used for ordering purposes. | | | |
| | The descriptions contained in these Bills of Quantities are intended as a means of identifying the various facets of the work. Tenderers shall allow for all costs in connection with the various items taking full cognizance of drawings, schedule of finishes and the Bills of Quantities descriptions. | | | |
| | Final measurement shall be made from construction drawings or from measurements taken on site. | | | |
| | PROGRAMME REQUIREMENTS | | | |
| | Tenderers are advised to discuss their programme with the Principal Agent to ensure that no delays occur. | | | |
| | **Carried forward** | | R | |

| | | | |
|---|---|---|---|
| **Brought forward** | | R | |
| Tenderers will be required to have sufficient teams on site, at all times, as to ensure that the programme dates are met. Tenderers are to allow for this in their tenders as no claim for additional teams or workmen will be entertained at a later stage. | | | |
| SITE REPRESENTATIVE | | | |
| Tenderers are to allow for a full time site representative. | | | |
| PAINT SPECIFICATIONS | | | |
| All painting shall be done in accordance with Architect's specifications unless otherwise described | | | |
| COLOURS | | | |
| Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091 | | | |
| GUARANTEE | | | |
| A Project Guarantee Request Sheet must be filled in and passed on to the relevant ICI Dulux representative. Please request this from your specifier consultant. The client/contractor must notify ICI Dulux TWO weeks prior to commencement of the project to facilitate the necessary QA. | | | |
| **PAINTWORK, ETC. TO NEW WORK** | | | |
| **"PLASCON" OR OTHER EQUAL AND APPROVED** | | | |
| **ON INTERNAL FLOATED PLASTER SURFACES** | | | |
| **Carried forward** | | R | |

**Bill No. 16**
**PAINT WORK (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer, one undercoat and two coats 'PLASCON Wall & All' or other approved emulsion paint for interior use** | | | | |
| 2.16.1 | Walls | m2 | 516 | | |
| | **ON EXTERNAL TEXTURED PLASTER SURFACES** | | | | |
| | **Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer, one undercoat and two coats 'PLASCON Wall & All' or other approved emulsion paint for interior use** | | | | |
| 2.16.2 | Walls | m2 | 323 | | |
| | **ON PLASTERBOARD SURFACES** | | | | |
| | **Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer, one undercoat and two coats 'PLASCON PVA paint' or other approved emulsion paint for interior use** | | | | |
| 2.16.3 | Internal Ceilings and bulkheads | m2 | 225 | | |
| | **ON FIBRE-CEMENT BOARD SURFACES** | | | | |
| | **Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer and two coats superior quality acrylic emulsion paint for exterior use** | | | | |
| 2.16.4 | Fascias and barge boards, including priming metal jointing strips | m2 | 52 | | |
| | **ON METAL SURFACES** | | | | |
| | **Carried forward** | | | R | |

**Bill No. 16**
**PAINT WORK (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **Prepare surfaces and remove all loose material, apply one coat water based primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint** | | | | |
| 2.16.5 | Door frames | m2 | 35 | | |
| 2.16.6 | On gates (Measured over the full flat area of both sides) | m2 | 30 | | |
| | **Spot prining defect in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel** | | | | |
| 2.16.7 | On windows with burglar bars | m2 | 16 | | |
| | **ON WOOD SURFACES** | | | | |
| | **Prepare surfaces and remove all loose material, apply one coat wood primer, one coat alkyd based universal undercoat and two coats super quality gloss paint. Colour TBC. by Architect (sand between coats)** | | | | |
| 2.16.8 | On doors | m2 | 140 | | |
| | **Prepare surfaces and remove all loose material, apply two coats 'ABE Provonite' carbolineum or equal approved anti-corrosive coal tar paint** | | | | |
| 2.16.9 | Roof timbers at eaves and verges | m2 | 48 | | |
| | **SPECIALIST FLOOR COATINGS (SUPPLIER TO BE SABS ISO 9000 COMPLIANT)** | | | | |
| | **Prepare substrate, prime and apply two coats PROSTRUCT623 high build epoxy enamel (colour to architects approval) all in accordance with the manufacturer's specifications** | | | | |
| 2.16.10 | On floors | m2 | 100 | | |
| | **Carried Forward to Sectional Summary:** | | | R | |

**Bill No. 16**
**PAINT WORK (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| Item No | Description | Quantity | Rate | Amount |
|---|---|---|---|---|
| | **SECTION NO. 2** | | | |
| | **BILL NO. 17** | | | |
| | **BUDGETARY ALLOWANCES (PROVISIONAL)** | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | **DEMOLITION, ETC** | | | |
| | **Demolitions, etc** | | | |
| 2.17.1 | Provide the amount of R 150,000.00 (One Hundred and Fifty Thousand Rand) for Demolition, Cartaway and Backfilling of existing Ablution Blocks | Item | | 150 000.00 |
| | **Carried Forward to Sectional Summary:** | | R | |
| | **Bill No. 17**<br>**BUDGETARY ALLOWANCES (PROVISIONAL)**<br>**PREPARED BY PROCO GROUP (PTY) LTD** | | | |

**SUMMARY**

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| | **Carried to Final Summary** | | R | |

**PREPARED BY PROCO GROUP (PTY) LTD**

| Item No | Description | | Quantity | Rate | Amount |
|---|---|---|---|---|---|
| | **SECTION NO. 3** | | | | |
| | **BILL NO. 1** | | | | |
| | **OPEN WALKWAYS (ALL TRADES)(PROVISIONAL)** | | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | | |
| | **EARTHWORKS (PROVISIONAL)** | | | | |
| | **EXCAVATION OTHER THAN BULK** | | | | |
| | **Excavation in earth not exceeding 2m deep** | | | | |
| 3.1.1 | Trenches | m3 | 3 | | |
| | **Extra over trench and hole excavations in earth for excavation in** | | | | |
| 3.1.2 | Soft rock | m3 | 0.2 | | |
| 3.1.3 | Hard rock | m3 | 0.4 | | |
| | **CARTING AWAY** | | | | |
| | **Extra over all excavations for carting way** | | | | |
| 3.1.4 | Surplus material from excavations and/or stocked piles on site to a dumping site to be located by the contractor | m3 | 117 | | |
| | **RISK OF COLLAPSE** | | | | |
| | **Risk of collapse of excavations** | | | | |
| 3.1.5 | Sides of trench and hole excavations not exceeding 1,5m deep | m2 | 26 | | |
| | **KEEPING EXCAVATIONS FREE OF WATER** | | | | |
| | **Carried forward** | | | R | |

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **Keeping excavations free of water** | | | | |
| 3.1.6 | Allow for keeping excavations free of water or mud by hand or machinery | | Item | | |
| | **FILLING, ETC:** | | | | |
| | **Layerworks** | | | | |
| 3.1.7 | Imported G5 filling material from commercial sources by the contractor in accordance with SABS 1200 and the Engineers specifications, compacted in 150mm layers, to 95% Mod AASHTO density | m3 | 44 | | |
| 3.1.8 | Imported G7 filling material from commercial sources by the contractor in accordance with SABS 1200 and the Engineers specifications, compacted in 150mm layers, to 95% Mod AASHTO density stabilised with an optimum moisture content of 2% | m3 | 44 | | |
| | **COMPACTION** | | | | |
| | **Compaction of surfaces** | | | | |
| 3.1.9 | Compaction of ground surfaces 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 (LI) | m2 | 301 | | |
| | **TESTS** | | | | |
| | **Prescribed density tests on filling** | | | | |
| 3.1.10 | Modified AASHTO Density test | No | 4 | | |
| 3.1.11 | "Field Density" test including "Optimum Moisture Content" (four readings per test) | No | 4 | | |
| | **SOIL POISONING** | | | | |
| | **Carried forward** | | | R | |

**Bill No. 1**
**OPEN WALKWAYS (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **Soil insecticide in accordance to SANS 5859** | | | | |
| 3.1.12 | Under paved walkways, etc | m2 | 301 | | |
| | **CONCRETE, FORMWORK AND REINFORCEMENT** | | | | |
| | **REINFORCED CONCRETE CAST ON/IN FORMWORK** | | | | |
| | **25Mpa/19mm Concrete** | | | | |
| 3.1.13 | Foundation beams | m3 | 1 | | |
| 3.1.14 | Surface beds, cast in panels | m3 | 19 | | |
| | **CONCRETE SUNDRIES** | | | | |
| | **Finishing top surfaces of concrete with a broomed non-slip finish** | | | | |
| 3.1.15 | Surface beds, slabs, etc | m2 | 145 | | |
| | **Test blocks** | | | | |
| 3.1.16 | Prepare a set of six concrete cubes each cube size 150 x 150 x 150mm for strength cubes and deliver to an approved laboratory for testing and pay all charges in connection therewith | Sets | 3 | | |
| | **MOVEMENT JOINTS, ETC.** | | | | |
| | **Expansion joints with 10mm softboard between vertical concrete surfaces** | | | | |
| 3.1.17 | 10mm Joints not exceeding 300mm high | m | 73 | | |
| | **ROUGH FORMWORK (DEGREE OF ACCURACY II)** | | | | |
| | **Carried forward** | | | R | |

**Bill No. 1**
**OPEN WALKWAYS (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **Rough formwork to sides** | | | | |
| 3.1.18 | Aprons slabs, paving, walkways and ramps | m | 145 | | |
| | **REINFORCEMENT (PROVISIONAL)** | | | | |
| | **High tensile & Mild steel reinforcement to structural concrete work** | | | | |
| 3.1.19 | Various Diameter Bars | t | 0.14 | | |
| | **Fabric reinforcement** | | | | |
| 3.1.20 | Type 193 fabric reinforcement in concrete surface bed, slabs, etc. | m2 | 145 | | |
| | **WATERPROOFING** | | | | |
| | **Joint Sealants, etc** | | | | |
| | **"ABE Flexothane" or equal and approved two-part grey polysulphide sealing compound including backing cord, bond breaking, primer, etc** | | | | |
| 3.1.21 | In 10mm joints not exceeding 300mm high | m | 73 | | |
| | **Carried Forward to Sectional Summary:** | | | R | |

**Bill No. 1**
**OPEN WALKWAYS (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| Item No | Description | | Quantity | Rate | Amount |
|---|---|---|---|---|---|
| | **SECTION NO. 3** | | | | |
| | **BILL NO. 2** | | | | |
| | **WATER TANK SUPPORTS & DRINKING FOUNTAIN (ALL TRADES) (PROVISIONAL)** | | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | | |
| | **EARTHWORKS** | | | | |
| | **EXCAVATION OTHER THAN BULK** | | | | |
| | **Excavation in earth not exceeding 2m deep** | | | | |
| 3.2.1 | Bases | m3 | 29 | | |
| | **Extra over trench and hole excavation in earth for excavation in** | | | | |
| 3.2.2 | Hard rock | m3 | 29 | | |
| | **CARTING AWAY** | | | | |
| | **Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk)** | | | | |
| 3.2.3 | Off site to be located by the contractor | m3 | 29 | | |
| | **EARTH FILLING, ETC** | | | | |
| | Note: All filing whether obtained from the excavations, from stockpiles or by the contractor from an outside source must be selected and approved by the Structural / Civil Engineers | | | | |
| | **Carried forward** | | | R | |

**Bill No. 2**
**WATER TANKS (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **Filling with material from the excavations compacted to a density of at least 93% Mod. AASHTO density** | | | | |
| 3.2.4 | Backfilling to trenches, holes, etc. | m3 | 12 | | |
| | **KEEPING EXCAVATIONS FREE OF WATER** | | | | |
| | **Keeping excavations free of water** | | | | |
| 3.2.5 | Allow for keeping excavations free of water or mud by hand or machinery | | Item | | |
| | **COMPACTION** | | | | |
| | **Compaction of surfaces** | | | | |
| 3.2.6 | Compaction of ground surfaces 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 | 23 | | |
| | **TESTS** | | | | |
| | **Prescribed density tests on filling** | | | | |
| 3.2.7 | Modified AASHTO Density test | No | 8 | | |
| 3.2.8 | "Field Density" test including "Optimum Moisture Content" (four readings per test) | No | 8 | | |
| | **SOIL POISONING** | | | | |
| | **Soil insecticide in accordance to SANS 5859** | | | | |
| 3.2.9 | Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming | m2 | 23 | | |
| | **CONCRETE, FORMWORK AND REINFORCEMENT** | | | | |
| | **Carried forward** | | | R | |

**Bill No. 2**
**WATER TANKS (PROVISIONAL)**
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| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES** | | | | |
| | **10MPa Concrete** | | | | |
| 3.2.10 | Surface blinding under footings, bases, etc. | m3 | 1 | | |
| | **REINFORCED CONCRETE CAST AGAINST/ON FORMWORK** | | | | |
| | **25MPa/19mm Concrete** | | | | |
| 3.2.11 | Surface beds | m3 | 3 | | |
| 3.2.12 | Bases | m3 | 16 | | |
| | **CONCRETE SUNDRIES** | | | | |
| | **Finishing top surfaces of concrete with a wood float** | | | | |
| 3.2.13 | Surface beds, slabs, etc. | m2 | 23 | | |
| | **Test blocks** | | | | |
| 3.2.14 | Prepare a set of six concrete cubes each cube size 150 x 150 x 150mm for strength cubes and deliver to an approved laboratory for testing and pay all charges in connection therewith | Sets | 3 | | |
| | **ROUGH FORMWORK (DEGREE OF ACCURACY III)** | | | | |
| | **Rough formwork to sides** | | | | |
| 3.2.15 | Edges, risers, ends and reveals not exceeding 300mm high or wide | m | 38 | | |
| 3.2.16 | Bases | m2 | 27 | | |
| | **Boxing in smooth formwork to form** | | | | |
| 3.2.17 | 50mm Horizontal chamfer at corner | m | 38 | | |
| | **Carried forward** | | | R | |

**Bill No. 2**
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| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **REINFORCEMENT (PROVISIONAL)** | | | | |
| | **Mild steel reinforcement to structural concrete work** | | | | |
| 3.2.18 | 10mm Diameter bars | t | 1.292 | | |
| | **MASONRY** | | | | |
| | **BRICKWORK IN FOUNDATIONS** | | | | |
| | **Brickwork of NFX (14 MPa nominal compressive strength) clay imperial bricks in cement mortar** | | | | |
| 3.2.19 | One brick wall | m2 | 19 | | |
| | **BRICKWORK IN SUPERSTRUCTURE** | | | | |
| | **Brickwork of NFP Bricks in Class II mortar** | | | | |
| 3.2.20 | One brick wall | m2 | 19 | | |
| | **BRICKWORK SUNDRIES** | | | | |
| | **Bagging of 1:3 cement and sand mixture** | | | | |
| 3.2.21 | On outer face of inner skin of brick walls including any additional labour required in raising wall in two separate skins and working around wire ties and / or brick reinforcing fabric | m2 | 19 | | |
| | **Brickwork reinforcement** | | | | |
| 3.2.22 | 150mm Wide reinforcement built in horizontally | m | 38 | | |
| | **FACE BRICKWORK** | | | | |
| | **"Corobrik Firelight Satin" or equal and approved face bricks in stretcher bond with ruled joints and perpends internally and externally** | | | | |
| 3.2.23 | Extra over brickwork for face brickwork | m2 | 19 | | |
| | **Carried forward** | | | R | |

**Bill No. 2**
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| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **PLUMBING AND DRAINAGE** | | | | |
| | **WATER SUPPLIES AND FIRE SERVICES** | | | | |
| | **TAPS, VALVES, ETC** | | | | |
| | **"Cobra Watertech" or equal and approved** | | | | |
| 3.2.24 | 15mm Rough brass hose bib tap as 'Cobra Watertech' Ref. No. 108-15 or equal and approved including hose union, wall plate elbow, etc. with couplings for copper (LI) | No | 4 | | |
| | **TANKS, ETC** | | | | |
| | **Polyethylene drinking water tanks** | | | | |
| 3.2.25 | 5250 Litre low profile circular tank size 2250mm diameter x 1800mm high, with access lid and inlet hole,embedded in pedestal to a minimum of 400mm above ground level and tied down with 2 No. off 4mm galvanised double strap stay wires tied to galvanised mild steel M12 eye bolt of which is to be drilled and fixed to the 4 corners of concrete supporting base (LI) | No | 4 | | |
| | **Carried Forward to Sectional Summary:** | | | R | |

**Bill No. 2**
**WATER TANKS (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| Item No | Description | | Quantity | Rate | Amount |
|---|---|---|---|---|---|
| | **SECTION NO. 3** | | | | |
| | **BILL NO. 3** | | | | |
| | **CONCRETE APRONS (ALL TRADES) (PROVISIONAL)** | | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | | |
| | **EARTHWORKS** | | | | |
| | **EXCAVATION OTHER THAN BULK** | | | | |
| | **Excavation in earth not exceeding 2m deep** | | | | |
| 3.3.1 | Reduced levels under floors | m3 | 21 | | |
| | **CARTING AWAY** | | | | |
| | **Extra over all excavations for loading, carting and dumping surplus excavated material** | | | | |
| 3.3.2 | Off site to be located by the contractor | m3 | 21 | | |
| | **COMPACTION** | | | | |
| | **Compaction of surfaces** | | | | |
| 3.3.3 | Compaction of ground surfaces under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod. AASHTO density | m2 | 163 | | |
| | **TESTS** | | | | |
| | **Prescribed density tests on filling** | | | | |
| 3.3.4 | Modified AASHTO Density test | No | 8 | | |
| | **Carried forward** | | | R | |

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| 3.3.5 | "Field Density" test including "Optimum Moisture Content" (four readings per test) | No | 8 | | |
| | **SOIL POISONING** | | | | |
| | **Soil insecticide in accordance to SANS 5859** | | | | |
| 3.3.6 | Under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming | m2 | 163 | | |
| | **CONCRETE, FORMWORK AND REINFORCEMENT** | | | | |
| | **REINFORCED CONCRETE CAST ON/IN FORMWORK** | | | | |
| | **25MPa/19mm Concrete** | | | | |
| 3.3.7 | Surface beds, slabs, etc to falls and currents | m3 | 21 | | |
| | **CONCRETE SUNDRIES** | | | | |
| | **Finishing top surfaces of concrete with a wood float finish** | | | | |
| 3.3.8 | Concrete channel to falls | m2 | 163 | | |
| | **Test blocks** | | | | |
| 3.3.9 | Prepare a set of six concrete cubes each cube size 150 x 150 x 150mm for strength cubes and deliver to an approved laboratory for testing and pay all charges in connection therewith | Sets | 3 | | |
| | **ROUGH FORMWORK (DEGREE OF ACCURACY II)** | | | | |
| | **Rough formwork to sides** | | | | |
| 3.3.10 | V- drains, paving and ramps not exceeding 300mm high | m | 326 | | |
| | **Carried forward** | | | R | |

**Bill No. 3**
**CONCRETE APRONS (PROVISIONAL)**
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| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **MOVEMENT JOINTS, ETC.** | | | | |
| | **Expansion joints with 10mm softboard between vertical concrete and brick surfaces** | | | | |
| 3.3.11 | 10mm Joints not exceeding 300mm high | m | 163 | | |
| | **REINFORCEMENT (PROVISIONAL)** | | | | |
| | **Fabric reinforcement** | | | | |
| 3.3.12 | Type 193 fabric reinforcement in concrete surface beds, slabs, etc. | m2 | 163 | | |
| | **WATERPROOFING** | | | | |
| | **JOINT SEALANTS, ETC** | | | | |
| | **"ABE Flexothane" or equal and approved two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc** | | | | |
| 3.3.13 | In 10mm joints not exceeding 300mm high | m | 163 | | |
| | **Carried Forward to Sectional Summary:** | | | R | |

**Bill No. 3**
**CONCRETE APRONS (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| Item No | Description | | Quantity | Rate | Amount |
|---|---|---|---|---|---|
| | **SECTION NO. 3** | | | | |
| | **BILL NO. 4** | | | | |
| | **LANDSCAPING (PROVISIONAL)** | | | | |
| | **SUPPLEMENTARY PREAMBLES** | | | | |
| | **Landscaping specification** | | | | |
| | Refer to the landscape architect's specification annexed to these bills of quantities which is supplementary to and shall take precedence over the "Model Preambles for Trades" | | | | |
| | **GRASSING, SHRUBS, ETC.** | | | | |
| | **Excavate in earth and dispose on site** | | | | |
| 3.4.1 | To remove humps, form shallow ditches, etc | m2 | 64 | | |
| | **Ground preparation** | | | | |
| 3.4.2 | Cultivation and preparation of areas to be planted | m2 | 64 | | |
| | **Topsoil supplied by the contractor (3 parts top soil, 1 part compost and 1 part milled pine bark), including spreading and levelling** | | | | |
| 3.4.3 | In plant beds, grassed areas and holes for trees, shrubs, etc | m3 | 6 | | |
| | **Grassing, ground covers, etc** | | | | |
| 3.4.4 | Berea Evergreen Instant Lawn laid in sheets of 1m x 1m provide lawn of an even thickness obtained from a specialist turf grower including maintenance on site by watering, cutting grass, cutting of edges, weeding, and replacing dead plants | | | | |
| | | m2 | 64 | | |
| | **Carried Forward to Sectional Summary:** | | | R | |
| | **Bill No. 4**<br>**LANDSCAPING (PROVISIONAL)**<br>**PREPARED BY PROCO GROUP (PTY) LTD** | | | | |

| Item No | Description | | Quantity | Rate | Amount |
|---|---|---|---|---|---|
| | **SECTION NO. 3** | | | | |
| | **BILL NO. 5** | | | | |
| | **SOAK-AWAY (ALL TRADES) (PROVISIONAL)** | | | | |
| | **EARTHWORKS (PROVISIONAL)** | | | | |
| | **EXCAVATION, FILLING, ETC** | | | | |
| | **Excavation in earth not exceeding 2m deep** | | | | |
| 3.5.1 | Holes | m3 | 36 | | |
| | **Extra over bulk excavations in earth for excavation in** | | | | |
| 3.5.2 | Soft rock | m3 | 4 | | |
| 3.5.3 | Hard rock | m3 | 4 | | |
| | **Extra over all excavations for carting away** | | | | |
| 3.5.4 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor | m3 | 25 | | |
| | **Risk of collapse of excavations** | | | | |
| 3.5.5 | Sides of bulk excavations not exceeding 1,5m deep (LI) | m2 | 38 | | |
| | **EARTH FILLING, ETC** | | | | |
| | **Earth filling supplied by the contractor (not compacted)** | | | | |
| 3.5.6 | 650mm Thick layer of 19mm diameter stone filling on ground for soakaways, etc (LI) | m3 | 25 | | |
| 3.5.7 | 300mm Thick layer of insitu material filling in soakaways, etc (LI) | m3 | 11 | | |
| | **Carried forward** | | | R | |

**Bill No. 5**
**SOAKAWAY (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **Keeping excavations free of water** | | | | |
| 3.5.8 | Allow for keeping excavations free of water other than subterranean water | | Item | | |
| | **PLUMBING AND DRAINAGE (PROVISIONAL)(CPAP WORK GROUP NO. 148 UNLESS OTHERWISE STATED)** | | | | |
| | **DRAINAGE** | | | | |
| | **Class 34 HD uPVC sewer and drain pipes** | | | | |
| 3.5.9 | 160mm Perforated pipes laid in herring-bone pattern and including trenches not exceeding 1m deep (LI) | m | 20 | | |
| 3.5.10 | 110mm Pipes laid in and including trenches not exceeding 1m deep (LI) | m | 40 | | |
| | **Extra over Class 34 HD uPVC sewer and drain pipes for fittings** | | | | |
| 3.5.11 | 110mm Bend (LI) | No | 8 | | |
| 3.5.12 | 160mm Reducing tee(LI) | No | 4 | | |
| | **Testing** | | | | |
| 3.5.13 | Allow for testing the whole of the Soil Drainage to the satisfaction of the Principal Agent and Local Authorities All defective work is to be taken out and replaced at the contractor's expense and the whole re-tested until found satisfactory | | Item | | |
| | **GRASSING, ETC(CPAP WORK GROUP NO. 104 UNLESS OTHERWISE STATED)** | | | | |
| | **Topsoil supplied by the contractor, including spreading and levelling** | | | | |
| 3.5.14 | In plant beds, grassed areas and holes for trees, shrubs, etc (LI) | m3 | 6 | | |
| | **Carried forward** | | | R | |

**Bill No. 5**
**SOAKAWAY (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

| | | | | | |
|---|---|---|---|---|---|
| | **Brought forward** | | | R | |
| | **Grassing, ground covers, etc** | | | | |
| 3.5.15 | "Kikuyu" rolls 50mm thick (LI) | m2 | 38 | | |
| | **Carried Forward to Sectional Summary:** | | | R | |

**Bill No. 5**
**SOAKAWAY (PROVISIONAL)**
**PREPARED BY PROCO GROUP (PTY) LTD**

**SUMMARY**

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| | **Carried to Final Summary** | | R | |

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**FINAL SUMMARY**

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| | **Carried to Final Summary** | | R | |

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