

Item No		Quantity	Amount R
	<p><b><u>SECTION ONE</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>PRELIMINARIES</u></b></p> <p><b><u>NOTES TO PRELIMINARIES</u></b></p> <p>1.0 These Preliminaries comprise the following:</p> <p>1.01 Part A - The JBCC Principal Building Agreement Edition 6.2 May 2018 as amended by these bills of quantities</p> <p>1.02 Part B - The JBCC General Preliminaries Edition 6.2 May 2018 as amended by these bills of quantities</p> <p>1.03 Part C - Additional Preliminaries to meet the particular circumstances of this project</p> <p>2.0 Where references are made to clauses in any of the above sections, they will be identified by the prefix A, B or C followed by the clause number.</p> <p>3.0 Tenderers are referred to the above mentioned documents for the full intent and meaning of each clause thereof. These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not applicable to this contract, such modifications / corrections or additions as are necessary, are given as far as possible under each relevant clause heading.</p> <p>4.0 No claim whatsoever shall be entertained in respect of errors or omissions in pricing due to brevity of descriptions of items in these bills of quantities which are fully described when read in conjunction with the relevant clauses of the said Preliminaries and Preambles.</p>		
	<b>Carried Forward</b>		
	<p>Section No. 1            Bill No. 1            P&amp;Gs - Part A</p>		

<p style="text-align: right;"><b>Brought Forward</b></p> <p>5.0 The tenderer shall allow opposite each of the clauses whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out herein.</p> <p>Only priced items will be considered in respect of any adjustment of this section. Any items left unpriced shall be deemed to be covered 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.</p> <p>6.0 Where modifications or amendments as described are made, such modifications and/or amendments shall supersede any conflicting provision in the relevant clauses of the Principal Building Agreement and the tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.</p> <p>7.0 Any item not applicable to this contract is marked N/A.</p> <p>8.0 Should the contractor select Option A in terms of clause D4.0 in the Contract Data for the purpose of adjustment of the preliminaries, the amount entered into the amount column in these preliminaries is to be divided into one or more of the three categories provided namely Fixed (F), Value Related (V) and Time Related (T).</p>	R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 1          P&amp;Gs - Part A</p>	R	

<p style="text-align: right;"><b>Brought Forward</b></p> <p><b><u>PART A - PRINCIPAL BUILDING AGREEMENT</u></b></p> <p>Clause 1.1 The following definition is amended:</p> <p style="padding-left: 40px;">The definition of practical completion is amplified by the addition of the following after the words "for the intended purpose"</p> <p style="padding-left: 40px;">"and without derogating from the generality of the foregoing, the works and sections thereof shall not be considered to be complete or be capable of being effectively used for the intended purpose, and shall accordingly not be considered to have reached a state of practical completion, if any of the specific requirements as recorded in the Contract Data have not been met"</p> <p>Clause 1.2 is amended by the addition of the following clauses:</p> <p>1.2.6 "No waiver or relaxation of any of the provisions or terms of this <b>agreement</b> (or any <b>agreement</b> or other document issued or executed pursuant to or in terms of this <b>agreement</b>) shall operate as an estoppel against a <b>party</b> in respect of any of its rights in terms of this <b>agreement</b>. No failure by a <b>party</b> to enforce any provision of this <b>agreement</b> shall constitute a waiver of such provisions or affect in any way such <b>party's</b> rights to require the performance of such provision at any time in the future, nor shall a waiver of a subsequent breach nullify the effectiveness of the provision itself"</p> <p>1.2.7 "If the contractor constitutes a joint venture consortium or other unincorporated grouping of two or more persons:</p> <p style="padding-left: 40px;">1.2.8.1 these persons are deemed to be jointly and severally liable to the employer for the performance of this agreement;</p> <p style="padding-left: 40px;">1.2.8.2 these persons shall notify the employer of their leader who has authority to bind the contractor and each of these persons; and</p> <p style="padding-left: 40px;">1.2.8.3 the contractor shall not alter its composition or legal status without the prior written consent of the employer"</p> <p>Clause 2.0 is amended by the addition of the following clauses:</p> <p>2.5 Health and Safety Specification - the contractor shall comply with the requirements of the Occupational Health &amp; Safety Act (85/1993) as</p>	R	
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<p style="text-align: right;"><b>Brought Forward</b></p> <p>amended by Occupational Health &amp; Safety Amendment Act (181/1993) and the July 2014 Construction Regulations (refer Clause 8 Section One hereof). The employer will appoint an independent safety officer who will, in consultation with the contractor, draw up and agree the construction phase health and safety plan / specification. This health and safety specification will form an integral part of the principal contract document (making up Annexure "M") and will be copied to all subcontractors for inclusion, as modified, within their respective scope of works</p> <p>2.6 The contractor acknowledges that the undertaking given in this clause constitutes an agreement in terms of Section 37/20 of the Occupational Health &amp; Safety Act and its regulations, whereby all responsibility for health and safety matters relating to the services performed under this agreement shall be the obligation of the service provider. The contractor shall comply with all the laws and regulations which may be relevant to the services performed under this agreement, it being recorded that the presence of the contractor's employees, representatives, authorised subcontractors, machinery, plant equipment and vehicles at the employer's premises shall always be subject to the provisions of the OHS Act and of all other relevant legislation, codes of practice, directives, health and safety rules and security measures and will adhere to and obey all directives and instructions given by the employer in this regard.</p> <p>2.7 Environmental Impact Assessment Regulations - the contractor shall comply with Regulations 1182 and 1183, 1997.</p> <p>2.8 Noise Control Regulations - the contractor shall comply with Regulations 1999</p> <p>2.9 The employer reserves the right to pay direct (i.e. not through the contractor) for all or any permanent connections to local or other authority services, for which provisional amounts have been included within the selected subcontract bill / section hereof. In the event of the employer paying direct for these charges, the contractor will not be entitled to a ten percent (10%) mark-up in terms of Clause A26.4. All such provisional amounts included in the contract sum will be omitted.</p> <p>2.10 The <b>employer</b> and their <b>agents</b>, will not engage directly or indirectly with any Business Forums, local labour groups or any other similar entities (hereafter collectively referred to as Business Forums). Any discussions and / or negotiations with such Business Forums shall be conducted between the <b>contractor</b> and the Business Forum at their</p>	R	
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<p style="text-align: right;"><b>Brought Forward</b></p> <p>own discretion. The <b>contractor</b> is to ensure that the site and the access to the site remains a safe working environment for themselves, their subcontractors, the <b>employer</b> and their agents. The <b>contractor</b> shall appoint a Community Liaison Officer (CLO) to assist with any and all negotiations with the Business Forums as is appropriate. The <b>contractor</b> is to submit a copy of the appointment letter for the CLO to the <b>Principal Agent</b> prior to the commencement of any discussions and / or negotiations with the Business Form.</p> <p>Tenderers are advised that notwithstanding any provisions to the contrary contained in the <b>contract</b>, pending the circumstances an extension of time without cost may be granted at the <b>Principal Agent's</b> discretion in the event that a Business Forum prevents, for any reason, normal construction activities from being carried out on site. No claims will be entertained due to variances in the expected production and / or quality achieved by any subcontractor appointed following engagement with a Business Forum. The <b>contractor</b> will remain responsible for providing adequate supervision of all labour, and will remain responsible for the production and quality of work produced. All costs associated with this clause are to be priced accordingly and included in their preliminaries.</p> <p>Clause 5.0 is amended as follows :</p> <p>i) Clause 5.6 is amended by the addition of the following at the end thereof:</p> <p>"Outside of this, the contractor shall be deemed to have made appropriate allowances for plotting and printing of construction information for itself and for issuing to subcontractors"</p> <p>ii) The addition of Clause 5.7</p> <p>"All contract drawings for this project will be issued electronically and the contractor shall be deemed to have received such contract drawings on the date that such contract drawings have been dispatched electronically"</p>	R	
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<p style="text-align: right;"><b>Brought Forward</b></p> <p>Clause 6.5 is amended by deleting the last sentence thereof. The contractor shall have no opportunity to reasonably object on the employers appointment of another principal agent.</p> <p>Clause 7.0 is amended as follows :</p> <p>i) Clause 7.1 is amended by the addition of the following :</p> <p>Notwithstanding the provisions of Clause 7.1 hereof, where the contractor undertakes the design responsibility of any aspect of the works, he shall, in accordance with Annexure "H" hereof, indemnify and hold free the employer and his agents from responsibility for any claim or proceeding whatsoever due to fault in the design, detailing, calculations, etc., to the extent undertaken by the contractor. In such instance and with regard to those aspects of work as listed on Annexure "H", the provisions of Clause 7.0 shall not apply.</p> <p>In respect of design responsibility undertaken by any nominated or selected subcontractor, such subcontractor shall similarly, in accordance with Annexure "I" hereof, indemnify and hold free the employer, his agents and the contractor from responsibility for any claim or proceeding whatsoever due to fault in the design, detailing, calculations, etc., to the extent undertaken by the subcontractor.</p> <p>ii) The addition of Clause 7.4</p> <p>"If the contractor fails to obtain the necessary design warranties and/or indemnities from the subcontractors, the design responsibility shall be deemed to devolve upon the contractor"</p> <p>Clause 9.2.7 is amended as follows:</p> <p>Following the words principal agent, the following is to be added:</p> <p>The Contractor shall act with due care or diligence in accordance with the contractual obligations and shall under no circumstances be relieved or indemnified in any manner whatsoever should the contractor have acted negligently or without the required skill, due care and diligence.</p>	R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 1          P&amp;Gs - Part A</p>	R	

<p style="text-align: right;"><b>Brought Forward</b></p> <p>Clause 10.0 is amended by the addition of the following:</p> <p>10.12 The contractor shall effect, as a minimum, the following insurances:</p> <ul style="list-style-type: none"> <li>a) Insurance to comply with the provisions of the Compensation for Occupational Injuries and Diseases Act 1993.</li> <li>b) Employers Liability Insurance for no less than R10 million</li> <li>) All risks cover on all construction plant and allied equipment including site huts and temporary accommodation including plant and machinery hired, leased or loaned. The Employers interests are to be noted. Furthermore the contractor shall effect and maintain for the duration of the contract Motor Vehicle Liability Insurance company:</li> <li>d) Insurance in accordance with the Multilateral Motor Vehicle Accident fund No 93 of 1989 as amended.</li> <li>e) Balance of Third Party Motor Risks including passenger Liability</li> </ul> <p>10.13 Where called upon to do so, the party/ies responsible for effecting the various insurances, shall complete the relevant sections of Annexure "K" - "Declaration Of Insurance" attached</p> <p>Clause 12.0 is amended as follows:</p> <ul style="list-style-type: none"> <li>i) Clause 12.2.1 shall be amended by the addition of the following:           In addition, the contractor shall acquaint himself with any limitations or restrictions on working space, any restrictions imposed by existing buildings adjoining the site, any restrictions imposed by any authorities and any limitations on the availability of water, power and sewerage facilities.           Access to the works shall be strictly confined to that permitted by the principal agent. The contractor shall be solely responsible for maintaining such access and reinstating same upon completion. No claim whatsoever shall be entertained due to the access not being trafficable due to weather conditions and the like.           No claims for extras arising from the contractor having failed to comply with this clause will be entertained.</li> <li>ii) Clause 12.2.2 shall be amended by replacing the phrase "...fifteen (15) working days..." in the first sentence with the phrase "...seven (7) working days...".</li> <li>iii) Clause 12.2.6 is deleted in its entirety and replaced with the</li> </ul>	R	
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<p style="text-align: right;"><b>Brought Forward</b></p> <p>following:-</p> <p>Immediately on award of the contract and prior to commencement on site, the contractor, in conjunction with the principal agent, shall agree the working programme covering the first month of the construction period. During the course of the first month of the construction period, the contractor shall prepare and draw up for the principal agent's approval, a working programme for the balance of the works in accordance with the dates given herein, for possession, sectional completion and practical completion and shall be in sufficient details to enable the principal agent to monitor the progress of the works.</p> <p>The principal agent shall have the right to modify such programme to accommodate changes necessary, in his opinion, for co-ordinating the project as a whole. Any cost implications relating to such modification, shall be dealt with in accordance with the provisions of the agreement.</p> <p>The contractor shall be responsible at all times for maintaining the accuracy, validity and reasonableness of the programme, and the implementation thereof.</p> <p>The programme shall be compiled based on the critical path method of programming and the critical activities are to be clearly highlighted.</p> <p>Documentation will not be available in complete detail at the commencement stage. However the contractor, in consultation with the principal agent, shall plan the works on provisional information, to an agreed level of detail relating to the level of detailed information available and with sufficient scope to include future detail, without disrupting the basic logic as initially agreed.</p> <p>The quantities contained in this document are provisional and shall be utilized as a guide only for the drawing up of the programme.</p> <p>Where assumptions are made in regard to programming aspects, such assumptions shall be agreed by the contractor and the principal agent, and suitably recorded in the programme.</p> <p>Should circumstances change to the extent where the contractor is of the opinion that changes to the programme are required, then the contractor shall submit a written request to the principal agent for such changes, clearly identifying the reasons for requiring such change. The contractor and principal agent shall thereafter agree such changes, if any.</p>	R	
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<p style="text-align: right;"><b>Brought Forward</b></p> <p>Should the principal agent be of the opinion that the programme requires revisions, and notwithstanding the fact that a request for such revision has not been received from the contractor, the principal agent shall be entitled to instruct the contractor to revise the programme accordingly, unless the contractor can submit reasonable justification for not doing so.</p> <p>Any acceleration and/or special measures sanctioned by the principal agent together with associated effects shall be incorporated in a revision to the programme.</p> <p>The contractor and the principal agent shall, at regular intervals not exceeding two weeks, agree the state of progress of the works relative to the latest agreed revision of the programme. Such agreement shall include the recording of actual commencement and completion dates for each activity and shall constitute the official record of the progress at such point in time.</p> <p>In addition to and based on the programme systems and format dictated above, the contractor shall devise detailed working programmes. These shall be drawn on a regular basis (at least monthly), to the satisfaction of the principal agent.</p> <p>Such working programmes shall at all times relate to the constraints of the current programme.</p> <p>iv) Clause 12.2.10 is deleted in its entirety.</p> <p>v) Clause 12.2.13 is amended by the addition of the following:</p> <p>The names and CV's of the contractor's proposed management team(Including but not limited to Contracts manager, site agent, foreman, MEPDF Coordinator etc shall be submitted to the principal agent prior to commencement on site and, after the principal agent's agreement on the composition and competence thereof has been obtained, no changes shall be made nor shall any member of the said team be removed from the project while remaining in the employ of the contractor, without the principal agent's prior written approval.</p>	R	
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<p style="text-align: right;"><b>Brought Forward</b></p> <p>vi) Clause 12.2.18 is amended by the addition of the following:</p> <p>The contractor shall erect, maintain, alter as necessary and remove at completion:</p> <p>1.0 Offices accommodation for meetings held on site as per the following requirements:</p> <ul style="list-style-type: none"> <li>• Office to be air conditioned</li> <li>• Scanner</li> </ul> <p>2.0 The following equipment / information is to be provided and maintained for use of the professional team:</p> <ul style="list-style-type: none"> <li>• A3 lever arch file with the latest full set of Architectural, civil, structural, electrical, mechanical and fire drawings.</li> </ul> <p>3.0 One main notice boards of an approved design as instructed by the principal agent.</p> <p>4.0 The contractor shall have on site available additional hard hats, reflective vests (PPE equipment) as necessary in the event the Clients visitors should visit site.</p> <p>vii) The addition of the following clauses</p> <p>12.2.22 "The <b>contractor</b> shall designate a competent person to administer, control and regularly update <b>subcontractor's</b> delivery schedules, long lead items, shop drawing schedules, material / technical submittals, samples submittals and document submittals. This person shall be based full time on <b>site</b> for the <b>construction period</b>"</p> <p>12.2.23 "The <b>contractor</b> shall have a suitably qualified and experienced mechanical, electrical, plumbing and fire services (MEPDF) coordinator as part of the <b>contractor's</b> site management team. This coordinator shall be available once major mechanical, electrical, plumbing and fire services (MEPDF) <b>subcontractors</b> have been appointed and must be based full time on site from commencement of first fix installation inside the buildings up to and including the date of <b>practical completion</b>"</p>	R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 1 Bill No. 1 P&amp;Gs - Part A</p>	R	

<p style="text-align: right;"><b>Brought Forward</b></p> <p>Clause 13.2 is amended by the addition of the following clauses:</p> <p>13.2.5 "The <b>contractor</b> shall notify the <b>principal agent</b> if any encroachment of adjoining foundation, buildings, structures, pavements, boundaries, services, etc exist in order that the necessary arrangements may be made for the rectification of any such encroachments"</p> <p>13.2.6 "The <b>contractor</b> shall continuously perform tolerance control checks throughout the <b>construction period</b> and report on these at regular intervals to the <b>principal agent</b> in a format approved by the <b>principal agent</b>"</p> <p>13.2.7 "Should the <b>contractor</b> fail to comply with this requirement to the satisfaction of the <b>principal agent</b>, progressively as the <b>works</b> is constructed, the <b>employer</b> shall be entitled to commission other parties to do so on the <b>contractor's</b> behalf and at the contractor's expense. The <b>contractor</b> shall provide general attendance and all reasonable assistance to such parties"</p> <p>Clause 16.0 is amended as follows :</p> <p>(i) Clause 16.1.1 is amended by adding the words "...employer's employees or tenants..." after the word "...direct contractor..." in the first sentence, and by the addition of the following wording:</p> <p>In addition, the employer shall have the right to send his own employees or direct contractors on to the works for the purpose of installing tenant installations and requirements and any other special installations and systems. The contractor is to allow against the relevant items as described in this Clause, for any costs, as no additional claims will be entertained due to the presence on the works of such direct contractors, employers, employees or tenants.</p>	R	
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<p style="text-align: right;"><b>Brought Forward</b></p> <p>(ii) Clause 16.1.2 is amended by the addition of the following wording :</p> <p>The contractor shall not be entitled to any percentage profit or discount on the value of any work executed by direct contractors but shall nevertheless allow these direct contractors and the employer's employees to have access to the works, allocate reasonable space in the building for the storage of their materials, tools and equipment, and co-ordinate via the principal agent, the work of such direct contractors as necessary, all to the satisfaction of the principal agent. The contractor shall allow the direct contractors, etc., to use free of charge, the latrine accommodation and water and power supply on the site, and shall not in any way hinder or prevent the execution of their work.</p>	R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 1          P&amp;Gs - Part A</p>	R	

<p style="text-align: right;"><b>Brought Forward</b></p> <p>(iii) The addition of the following Clause 16.1.4:</p> <p>The contractor is advised that the following works may be carried out by the employer and / or his direct contractors and/or the employer's employees whether contained in this agreement or not, and/or tenants and the value of such work is not included in the principal building agreement:</p> <p>Furniture          Curtaining          PABX system          Radio and television installation, slot bases, etc.          Kitchen and catering equipment          Computer installations, data cabling, etc          Artwork, paint murals, etc.          Burglar alarm, security and access control installations          Public address installation          Signage, graphics and the like in public areas          Standby generators          Refrigeration equipment and refrigeration piping          Specialist lighting other than that provided by the electrical subcontractor          Closed circuit television installation          Energy management systems          Installations carried out by the employer in the normal course of his business          Landscaping and irrigation          LPG gas          MATV system          UPS          Point of sale equipment and installation          PV installation</p> <p>The contractor should allow for early occupation for the installation of these facilities, specifically computer rooms(s), to enable the direct contractors to finish their first and second fix items on or before practical / sectional completion of the works.</p> <p>A detailed schedule indicating the anticipated early occupation dates for the various items shall be agreed between the contractor and the principal agent.</p>	R	
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<p style="text-align: right;"><b>Brought Forward</b></p> <p>iv) The addition of the following Clauses:</p> <p>16.1.5 "Designate an area for the <b>direct contractor</b> to establish a temporary office and workshop and storage of equipment and materials"</p> <p>16.1.6 "Allow the use of personnel welfare facilities, where provided"</p> <p>16.1.7 "Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation"</p> <p>16.1.8 "Permit the <b>direct contractor</b> to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right while it remains erected on the <b>site</b>"</p> <p>Clause 17.0 is amended by the addition of the following clauses:</p> <p>17.1.21 Acceleration</p> <p>17.6 Contract Instructions issued by the principal agent or delegated agent. The contractor is required to scan and email all contract Instructions to the Principal agent, Architect and Quantity surveyor, and/or all services consultants where applicable within 24 hours of receipt of said instruction, if this procedure is not strictly adhered to, payment of such instruction will not be certified accordingly.</p> <p>The contractor shall record all instructions and report same in weekly Contract Instruction tracking schedules issued to the principal agent. The principal agent shall determine the Contract Instruction format and only contract instructions issued on the agreed format shall be recognised.</p>	R	
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<p style="text-align: right;"><b>Brought Forward</b></p> <p>Clause 19.3 is amended by the addition of the following Clause:</p> <p>19.3.5 "Notwithstanding the provisions of Clauses 19.3.1 and 19.3.2 any defects occurring after the issue of the list for practical completion requiring remedial work that will in the opinion of the principal agent cause disruption, will cause the issue of the certificate of practical completion to be withheld until such defects have been rectified to the satisfaction of the principal agent"</p> <p>Clause 19.6 is deleted and replaced by the following Clause:</p> <p>19.6 "If the <b>contractor</b> does not achieve <b>practical completion</b> by the applicable date for <b>practical completion</b>, then the <b>employer</b> may with the prior written <b>agreement</b> of the <b>contractor</b> (which shall not be unreasonably delayed or withheld), be entitled to take possession, in its entirety or parts thereof of the <b>works</b> and the <b>site</b>. The employer shall occupy and operate the building as if practical completion has been achieved, (but <b>practical completion</b> shall not be deemed to have taken place and the applicable certificate of <b>practical completion</b> shall not be issued)</p> <p>Such possession, occupation and operation by the <b>employer</b> shall not in any way whatsoever diminish or reduce the <b>contractor's</b> responsibility in terms of this <b>agreement</b> which in this event shall continue to be applied as if <b>practical completion</b> had not been achieved save that the <b>penalty</b> as contained in the <b>contract data</b> shall be reduced. The reduction in penalty will be calculated based on the revenue generating area being taken prior to the achievement of practical completion expressed as a percentage of the total revenue producing area.(Definition of revenue producing area is to be in strict compliance with SAPOA).The <b>contractor</b> shall complete the works in a manner which will least interfere with the <b>employer's</b> occupation and operation of the building, including working after hours, if necessary"</p>	R	
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<p style="text-align: right;"><b>Brought Forward</b></p> <p>Clause 21.0 is amended by the addition of the following clauses:</p> <p>21.6.3 The contractor shall complete the items on the list for completion and list for final completion by the expiry of the defects liability period, ninety (90) calendar days from the date of practical completion achievement.</p> <p>Should the contractor not complete the list for completion or list for final completion within the time frame 90 days from Practical Completion), a penalty of five thousand rand (R 5 000 ex Vat) per calendar day shall be applied until achievement of final completion and issuance of the final completion certificate.</p> <p>The contractor shall be responsible to complete all items on the list for completion and list for final completion, failing which, the penalty shall be applied in full and shall remain in full force and effect until achievement and issuance of the final completion certificate.</p> <p>21.13 The certificate of final completion will not be issued until the as built drawings, guarantees and maintenance instructions/manuals in terms of Clause C5.1 hereof has been lodged and approved to the satisfaction of the principal agent and client.</p> <p>Clause 23.0 is amended as follows :</p> <p>i) Clause 23.2.12 is deleted in its entirety.</p> <p>ii) Clause 23.1.1 shall be amended by the addition of the following:</p> <p>Revision to the date of practical completion in respect of adverse weather conditions will only be considered by the principal agent, to the extent that the actual recorded adverse weather on site affected work on a critical activity during the course of the contract.</p>	R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 1          P&amp;Gs - Part A</p>	R	

<p style="text-align: right;"><b>Brought Forward</b></p> <p>ii) Clause 23.4.2      Twenty (20) working days shall be replaced with ten (10) working days.</p> <p>iii) Clause 23.5      Forty (40) working days shall be replaced with Twenty (20) working days.</p> <p>iv) The addition of the following clauses</p> <p>23.9 "Revision to the date for <b>practical completion</b> shall only be considered when work on the critical path of the approved programme for the works is delayed"</p> <p>23.10 "Notwithstanding anything to the contrary, the <b>contractor</b> shall not be entitled to a revision to the date for <b>practical completion</b> for delays arising from Municipal or other interruptions in energy supply to the <b>site</b>"</p> <p>23.11 "Irrespective of whether or not the <b>principal agent</b> rules that the <b>contractor</b> is entitled to a revision of the date for <b>practical completion</b>, the <b>principal agent</b> shall nevertheless at any time, be entitled to issue a <b>contract instruction</b> to accelerate the progress of the remaining work, to ensure that the works are completed by the date for <b>practical completion</b></p> <p>Upon receipt of such instruction, the <b>contractor</b> shall take necessary steps to ensure that the <b>works</b> are completed timeously, including the provision by him of additional resources, plant, manpower, etc and the working of overtime or additional overtime beyond that contemplated at the time of tender (at all times adhering to the regulations and requirements of all authorities) and by all other adequate and proper means and methods. The <b>contractor</b> shall prove that such steps are being taken if called upon to do so</p> <p>The <b>contractor's</b> entitlement to compensation arising out of or in respect of any revision to the date for <b>practical completion</b> that may have been granted by the <b>principal agent</b>, or alternatively, where the <b>principal agent</b> has instructed the <b>contractor</b> to accelerate shall be adjudicated strictly in terms</p>	R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 1      Bill No. 1      P&amp;Gs - Part A</p>	R	

<p style="text-align: right;"><b>Brought Forward</b></p> <p>of Clause 26.9.4 hereof.</p> <p>23.12 For the avoidance of doubt, any extension to a Contractual Completion Date shall be reduced to the extent of any concurrent delay for which the Contractor is responsible. The burden of proof rests upon the Contractor in order to prove his delay when an event would have occurred on the critical path showing effect to time and completion</p> <p>23.13 The Contractor is to clearly show and indicate in a line item or several in the programme, the Terminal Float allowance for the project. The Terminal Float belongs to the project and not either party being the Employer and/or the Contractor. The Contractor will provide a detailed Returnable schedule stipulating the Terminal Float duration provisions and what events are foreseen to be covered under the Terminal Float including Contractor’s Risk, any Project Risk that a reasonable and experienced Contractor can foresee on the project. The Principal Agent and the Contractor will agree on the conditions set out that will reduce the Terminal Float. The Terminal Float will be managed by the Contractor and Principal Agent at agreed intervals on the reporting period stipulated where, any delays to the project that has been incurred during the reporting period will be assessed based on the stipulated conditions of float adjustment as set out in the terms agreed by the principal agent and contractor. This will then be agreed between the Principal Agent and the Contractor that the Terminal Float will be reduced (provided such justification complies) in order to meet the Contractual Completion Date.</p>	R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 1          P&amp;Gs - Part A</p>	R	

<p style="text-align: right;"><b>Brought Forward</b></p> <p>Clause 25.0 is amended as follows :</p> <p>i) Clause 25.3.2 shall be amended by adding the following:</p> <p>Application by the contractor for the inclusion of materials and goods in an interim payment certificate shall be set out in accordance with Annexures "E" and "F" hereof, separating materials and goods into the work groups as defined in the CPAP (if applicable).</p> <p>ii) Clause 25.10 shall be amended replacing the phrase "...fourteen (14) calendar days..." in the first sentence with the phrase "...twenty one (21) calendar days...".</p> <p>iii) Clause 25.10 shall further be amended by the addition of the following at the end of this clause:</p> <p>"subject to the <b>contractor</b> giving the <b>employer</b> a <b>tax</b> invoice for the amount due"</p> <p>iv) Clause 25.13 shall be deleted and replaced with the following clause:</p> <p>Clause 25.13</p> <p>"The <b>contractor</b> shall pay all <b>subcontractors</b> within seven (7) <b>calendar days</b> of the due date for payment by the <b>employer</b> [CD] and provide proof thereof to the <b>principal agent</b> within five (5) <b>working days</b> of the <b>subcontractor</b> payment due date."</p> <p>v) The addition of the following clause:</p> <p>29.19 "Where prices are submitted by the <b>contractor</b> or <b>subcontractor</b> during the progress of the works in respect of <b>contract instructions</b> or in regard to a claim under the terms of the <b>agreement</b> and notwithstanding the fact that such prices may be used in an interim <b>payment certificate</b>, there is to be no presumption of acceptance"</p> <p>Clause 26.0 is amended as follows:</p>	R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 1          P&amp;Gs - Part A</p>	R	

<p style="text-align: right;"><b>Brought Forward</b></p> <p>i) The addition of Clause 26.2.5</p> <p>The contractor shall notify the principal agent within (5) working days of any contract instruction for which, in his opinion, reasonable compensation can not be made in terms of Clause 26.2.1 to 26.2.4.</p> <p>Failure to issue notice will mean that the contract value will be adjusted on terms of Clause 26.2.1 to 26.2.4.</p> <p>ii) Clause 26.4.1 is amended by addition of the following at the end of this clause:</p> <p>"The <b>employer</b> reserves the right to pay direct (i.e. not through the <b>contractor</b>) for all or any permanent connections to local or other authority services, for which provisional amounts have been included within the <b>contract documents</b>. In the event of the <b>employer</b> paying direct for these charges, the <b>contractor</b> will not be entitled to a ten percent (10%) mark-up [26.4.1]. All such provisional amounts included in the <b>contract sum</b> will, as a result, be omitted"</p> <p>iii) Clause 26.6 shall be amended by replacing the phrase "...forty (40) working days..." in the first sentence with the phrase "...twenty (20) working days..."</p> <p>iv) Clause 26.9.5 is amended by the addition of the following :</p> <p>In accordance with Clause 3.4.4 of the CPAP, the value of equipment in specialist work (e.g. cooling towers, data controlled supervising equipment, etc.) and imported materials / labour requiring adjustment outside of the CPAP, are to be listed in the tender enquiry document or to be separately listed by the tenderer at the time of tender.</p> <p>For the purposes of such listing, attached Annexure "J" has been provided.</p> <p>The value of such equipment in specialist work shall be stated, together with the required basis of adjustment (e.g. SEIFSA, proven costs, etc.,) and the relevant base indices where applicable.</p>	R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 1          P&amp;Gs - Part A</p>	R	

<p style="text-align: right;"><b>Brought Forward</b></p> <p>In respect of imported materials / labour, the following shall be stated :</p> <ul style="list-style-type: none"> <li>• description of materials, plant, equipment, labour, etc.</li> <li>• country of origin</li> <li>• foreign currency amount and the applicable rate of exchange ruling</li> <li>• as at the date of submission of the tender</li> <li>• the cost, insurance and freight value of the imported materials,</li> <li>• etc., expressed in Rands</li> </ul> <p>At the date of acceptance of the tender, the contractor shall further provide a copy of the importation documentation / quotes, substantiating the imported values, currency, etc. as above.</p> <p>The contractor's price adjustment requirements as set out above shall be recorded in Annexure "J" hereto, failing which, it shall be deemed that all such equipment in specialist work and imported materials / labour shall be subject to adjustment in terms of the CPAP, if applicable.</p>	R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 1          P&amp;Gs - Part A</p>	R	

	Brought Forward	R
<p>v) The addition of the following clause:</p> <p>26.14 Tenant installations'/users' requirements delayed</p> <p>There is a possibility that certain works related to tenant installations'/users' requirements may have to be delayed and may consequently not be executed prior to practical completion</p> <p>The employer reserves the right to omit such work without compensation to the contractor for loss of profit or any other loss which the contractor may suffer as a result of such omission</p> <p>Should the contractor be instructed to do so he shall execute this work under the conditions pertaining to this agreement on the basis that a separate amount for preliminaries pertinent to this work (if applicable) is agreed to between the contractor and the principal agent and on condition that instruction to proceed with such work is given to him within a period of three (3) calendar months after the date of practical completion of the works</p> <p>Clause 29.0 is amended by addition of the following clause :</p> <p>29.1.4 Provide proof of payment to <b>subcontractors</b> in terms of clause 25.13</p>		
<p style="text-align: right;">Carried Forward to Summary of Section No.</p> <p>Section No. 1          Bill No. 1          P&amp;Gs - Part A</p>		R

Item No		Quantity	Rate	Amount R
	<p><b><u>PART B - GENERAL PRELIMINARIES (JBCC EDITION 6.2 MAY 2018)</u></b></p> <p>These provisional bills of quantities contain pages as scheduled in the Index.</p> <p>No alteration, erasure, amendment, note, deletion, insertion, omission or addition is to be made to this document. Any such alteration, etc., made will not be recognised, but the reading of these bills of quantities, as prepared by the quantity surveyor, will be adhered to.</p> <p>The tenderer shall check the numbers of the pages of the tender documents and should any be missing or duplicated, or the reproduction is indistinct, or if any doubt exists as to the intent or meaning of any description, or where the contract documents contain any obvious errors, the tenderer shall notify the principal agent forthwith thereof and the principal agent shall promptly give a written directive.</p> <p>No claim whatsoever shall be entertained in respect of errors in pricing due to brevity of descriptions of items in the bills which are fully described when read in conjunction with the relevant "Standard Preambles."</p> <p>The rates contained in the priced bills of quantities shall apply irrespective of the final quantities of the different classes and kinds of work actually executed. No claims for extras, loss of profit, variation of rates or other similar claims will be entertained as a result of any variations whatsoever between the contract sum and the final value of the works.</p> <p>Budgetary Allowances and Provisional Sums contained herein may be omitted or reduced at the principal agent's discretion and the contractor shall not be entitled to claim for any loss by way of reduction or omission of any discounts, or percentage relating to Budgetary Allowances or Provisional Sums or any loss of profit related thereto</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 1            Bill No. 2            P&amp;Gs - Part B</p>			<p style="text-align: right;">R</p>

<p style="text-align: center;"><b>Brought Forward</b></p> <p>The quantities in provisional bills of quantities are an indication of the works to be executed and are subject to remeasurement</p> <p>Clause 3.1 is amended by the addition of the following at the end of the paragraph:</p> <p>"In the event that the <b>contractor</b> fails to notify the <b>principal agent</b> to the contrary, it is deemed that the works is dimensionally accurate"</p> <p>Clause 5.1 is amended as follows:</p> <p>The additional of the clause 5.3.1</p> <p>5.1.1 The contractor is responsible for the management of the schedule of information required for the successful completion of the project.</p> <p>Clause 5.3 is amended as follows:</p> <p>The additional of the clause 5.3.1</p> <p>5.3.1 The contractor shall ensure that a updated photo diary is kept and maintained at all times.</p> <p>Clause 6.3 is amended as follows:</p> <p>The additional of the clause 6.3.3</p> <p>6.3.3 The contractor shall ensure that all shop drawings required for the works in terms of this Contract, all subcontracts and/or any principal agent's instruction, are prepared and submitted timeously in accordance with the following procedure:</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 2          P&amp;Gs - Part B</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <ul style="list-style-type: none"> <li>• Three prints of shop drawings of all fabricated work, working or setting out drawings, shop details and schedules shall be submitted to the principal agent or delegated agent for approval. Such work shall not be carried out until such approval has been given.</li> <li>• Shop drawings shall be submitted to the principal agent for approval and the contractor is to allow the principal agent a reasonable check period (minimum two weeks) from the date of receipt of shop drawings, before returning the drawings to the contractor in accordance with the works programme.</li> <li>• All submissions shall be prepared in accordance with the contract drawings and specifications and/or any principal agent's instructions and any deviation shall be specifically highlighted in writing, with a detailed explanation of the reason for such deviation, together with any cost and/or time implications.</li> </ul> <p>Delays in approval of shop drawings due to non-compliance with drawings, specifications and/or principal agent's instructions, shall not constitute ground for any claims for delay, extension of time and the like.</p> <ul style="list-style-type: none"> <li>• When the principal agent advises that shop drawings have been approved, such drawings shall immediately be submitted to the principal agent so that the principal agent's stamp of approval may be appended thereto. Thereafter, four prints of the approved shop drawings, setting out drawings and schedules shall be furnished to the principal agent. As many prints of the approved shop drawings and schedules as required, shall also be furnished to the works. No work shall be performed in accordance with drawings and/or catalogues not stamped with the principal agent's approval.</li> </ul>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 2          P&amp;Gs - Part B</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <ul style="list-style-type: none"> <li>• The contractor, sub-contractor or supplier, as the case may be, shall be responsible for ensuring that all dimensions affecting shop drawings conform to the dimensions of built work.</li> <li>• The principal agent's approval of shop drawings is limited to checking conformity with specification and shall not relieve the contractor, subcontractor or supplier of his responsibility for design, erection or installation fit, nor does it vary his contractual or delictual obligations and liabilities.</li> <li>• Should the contractor, subcontractor or supplier be of the opinion that corrections to shop drawings made by the principal agent constitute a change to the scope of work, then he shall immediately advise the principal agent in writing of this, together with the cost and/or programme implications thereof, in order to obtain the principal agent's directive.</li> </ul> <p>The addition of clause 6.3.4</p> <p>6.3.4 "The <b>contractor</b> shall present a complete schedule showing the sequence of submission of shop drawings, including submission dates for all trades and the scheduled dates for approval of all drawings. This schedule shall take into account a two week check period from the date of the receipt of all shop drawings and/or catalogue data</p> <p>All submissions shall be on dates as indicated in the above schedule and sufficiently in advance to permit the <b>contractor</b> and <b>subcontractors</b> to meet fabrication deadlines. No claim for extensions to the <b>construction period</b> will be granted to the <b>contractor</b> by reason of his failure in this respect"</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 2          P&amp;Gs - Part B</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>Clause 8 is amended by the addition of the following clause:</p> <p>8.5 "The <b>contractor</b> shall agree the location of all temporary services with the <b>principal agent</b> before installation and on completion remove the same and make good [8.1, 8.2, 8.3, 8.4]"</p> <p>Clause 10.1 shall be amended by the addition of the following:</p> <p>The contractor shall allow all nominated and selected subcontractors reasonable usage of hoisting facilities whilst they remain erected.</p> <p>The provision and erection of scaffolding by the contractor as required for the execution of works, shall be done in the best interests of the project, whereby nominated and selected subcontractors shall be afforded the opportunity to use the erected scaffolding by prior agreement with the contractor.</p> <p>Clause 11.5 is amplified by the addition of the following at the end of this clause.</p> <p>All work is to be carried out in such a manner as to cause no unacceptable or unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic in so far as they exceed the permissible limitations set by government legislation or the local authority. Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the <b>construction period or contract value whatsoever</b>"</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 2          P&amp;Gs - Part B</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>Clause 11.6 is amended by the addition of the following at the end of this clause.</p> <p>"The contractor shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution during the construction period due inter alia to noise, artificial light, wind-blown sand, dust, deposits or mud, etc</p> <p>The contractor is to ensure that all roads which border the site and used by the contractor during the execution of the works are kept clean and free of any dirt or debris caused by the execution of the works"</p> <p style="text-align: center;"><b>Carried Forward to Summary of Section No.</b></p> <p>Section No. 1        Bill No. 2        P&amp;Gs - Part B</p>		<p style="text-align: center;">R</p>	
		<p style="text-align: center;">R</p>	

Item No		Quantity	Rate	Amount R
	<p><b><u>PART C - ADDITIONAL PRELIMINARIES</u></b></p> <p>The following clauses are additional to, or augment the clauses contained in Part A and B.</p> <p>The contractor shall at all times strictly exclude all unauthorized persons from the works.</p> <p>No workmen are to be allowed under any circumstances to sleep or deposit any personal effects on the premises. The contractor must provide any necessary independent shelters or sheds required for any workmen or watchmen left on the site.</p> <p>Furthermore, the contractor shall take all measures necessary to ensure that no unauthorised workmen are allowed into the building at any time without the specific permission of the principal agent.</p> <p>Access to the site shall be restricted to enter and exit through one point only or as directed by the principal agent.</p> <p>The contractor shall keep the approaches to the site clear of mud, other debris and the like caused by the contractor or any subcontractors.</p> <p>All borrow pits and dump site areas proposed to be used by the contractor shall be subject to prior approval by the principal agent.</p> <p>The contractor shall also be restricted in respect of the manner in which the borrow pits and dump sites will be used and shall be liable to work within the constraints reasonably set by the principal agent. All green star principal are to be strictly adhered to.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 3          P&amp;Gs - Part C</p>			<p style="text-align: right;">R</p>

<p style="text-align: center;"><b>Brought Forward</b></p> <p>The contractor’s attention is drawn to the provisions of Sections 35 and 36 of the Land Survey Act (Act 9 of 1927) in terms of which he will be responsible for the safety of any survey beacons and bench marks and of any plot boundary pegs encountered on the site as well as for all costs incurred in the replacement of moved or damaged survey beacons and bench marks or plot boundary pegs by a Registered Land Surveyor.</p> <p>Tenderers shall, in respect of general builder’s work (i.e. excluding budgetary allowances and provisional sums allowed for subcontract works), offer a fixed price option in lieu of adjustment in terms of the CPAP in which case, all variations in costs, inter alia costs of labour and materials, taxes (excluding VAT), currency fluctuations, exchange rates, transport charges, plant, overheads, preliminaries, etc., after submission of the offer, shall be to the contractor’s account. Rates shall remain fixed, irrespective of any increase or decrease in the final value of the works and shall remain so for the duration of the contract and also for any extended contract period that may be granted by the principal agent.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 3          P&amp;Gs - Part C</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>These bills of quantities have been formulated in the conventional manner, whereby the preliminaries have been included as a separate section, in order to enable tenderers to price their site establishment costs, site management, etc.</p> <p>In pricing the preliminaries, tenderers are required to price the relevant items individually, as a single lump sum preliminaries amount will not be accepted.</p> <p>In the event that a tenderer elects not to price the preliminaries section as contained within these bills of quantities, then it will be deemed that all relevant preliminaries costs have been included within the rates as tendered within the measured bills of quantities. Adjustment of the preliminaries will, in this instance, only be by way of remeasured final quantities applied to tendered rates. Tenderers acknowledge that by pricing the preliminaries in this way, they will forfeit any claim for the independent adjustment of preliminaries costs arising out of an extension of the construction period granted in terms of Clause A23.0.</p> <p>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.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 3          P&amp;Gs - Part C</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Tenderers are advised that the nature of this contract is such that the detail design will evolve in parallel with construction.</p> <p>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.</p> <p>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. In order to assist the principal agent in adjudicating a claim in terms of clause A26.6, 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.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 3          P&amp;Gs - Part C</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>All insurances to be effected by the Contractor.</p> <p>Where the contractor is responsible for the appointment of sub-contractors, then the contractor shall:</p> <ul style="list-style-type: none"> <li>i) ensure that potential and appointed subcontractors are aware of the whole content of Clause A10.0</li> <li>ii) ensure the compliance of subcontractor with this Clause where applicable.</li> </ul> <p>All insurances to be effected by the Contractor.</p> <p>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.</p> <p>The contractor shall be required to ensure that, at the end of the project, copies of the plumbing, drainage and fire services reticulation layouts, showing the position of main pipe runs, the positions of stopcocks and all other salient information, are submitted to the principal agent.</p> <p>All such as-built drawings are required to be lodged prior to the issue of the certificate of final completion (refer Clause A21.0 hereof).</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 3          P&amp;Gs - Part C</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>The contractor shall obtain and hand over to the principal agent two weeks prior to practical completion, all relevant guarantees and operating and maintenance manuals, as required by the principal agent or provided by manufacturers, suppliers or subcontractors.</p> <p>The contractor shall ensure that all warranties and guarantees received are fully ceded to the employer on practical completion, failing which, the issue of the practical completion certificate and the release of construction guarantee, will be withheld until this is satisfactorily completed.</p> <p>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.</p> <p>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.</p> <p><b><u>5.0 GENERAL IN RESPECT OF SPECIALIST INSTALLATIONS</u></b></p> <p><b>Note :</b> 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:</p> <p>All specialist plant and equipment, subject to the principal agent's 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</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 3          P&amp;Gs - Part C</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>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.</p> <p>The appropriate consultant (Agent) via the principal agent, will be required to witness and accept, as well confirm same in writing to the client.</p> <p>In the event that the principal agent or his representatives cannot witness such tests, the employer may:</p> <p>i) appoint a specialist inspection organisation to witness such tests at his expense on behalf of the principal agent or his representatives.</p> <p style="text-align: center;">OR</p> <p>ii) accept the subcontractor’s certificate testifying as to the quality and performance of the specialist plant / equipment so supplied.</p> <p>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.</p> <p>The final acceptance will take place on site in the presence of the subcontractor responsible for the commissioning of the equipment. The principal agent’s representative shall also be present.</p> <p>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.</p> <p>The principal agent’s shall be afforded access at all reasonable times to such part of the works on site or at the subcontractor’s</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 3          P&amp;Gs - Part C</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>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.</p> <p>The subcontractor shall be responsible for the tests required by any local statute, building regulation, etc.</p> <p>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.</p> <p>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.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 3          P&amp;Gs - Part C</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>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.</p> <p>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 A22.0 hereof.</p> <p>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.</p> <p>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</p> <p>All rights of publication of articles in the media, together with any advertising relating to, or in any way connected with this project, shall vest with the employer.</p> <p>The contractor together with his subcontractors shall not, without the written consent of the employer, cause any statement or advertisement to be printed, screened or aired by the media.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 3          P&amp;Gs - Part C</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>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.</p> <p>The contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the works or temporary works, 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 expense.</p> <p>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.</p> <p>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 works in accordance with the contract at his own expense.</p> <p>A two weekly photographic record is to be provided by the contractor in electronic format, recording the state of progress of the works, with each photograph being suitably annotated with the location and date.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 3          P&amp;Gs - Part C</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>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.</p> <p>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 A12.2.6 hereof shall apply.</p> <p>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.</p> <p>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.</p> <p>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.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 3          P&amp;Gs - Part C</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>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.</p> <p>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.</p> <p>The contractor shall allow for the provision of suitable standby generated power (where required) including all connection, fuel and maintenance costs to meet the requirement of the contract. (Inclusive of load shedding outages)</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 3          P&amp;Gs - Part C</p>		R	

Brought Forward

R

**BREAKDOWN OF THE PRELIMINARIES IN CATEGORIES**

The following breakdown of the preliminaries is agreed for the adjustment of preliminaries [26.9.4] in terms of Option "A"

Parts	Fixed Items	Value Related Items	Time Related Items
Part A	R		R
Part B	R		R
Part C			
<b>TOTAL</b>	R	R	0 R

Payment to the CLO to be carried out by the Principal Contractor.

Carried Forward to Summary of Section No.

R

Section No. 1  
 Bill No. 3  
 P&Gs - Part C

Bill No	Preliminaries & General	Page No	Amount R
<b><u>SECTION SUMMARY - Preliminaries &amp; General</u></b>			
1	P&Gs - Part A	22	
2	P&Gs - Part B	28	
3	P&Gs - Part C	41	
<b>Carried to Final Summary</b>			R
Section No. 1			

Item No		Unit	Quantity	Rate	Amount R
	<p><b><u>BILL NO. 1</u></b></p> <p><b><u>ALTERATIONS</u></b></p> <p>For preambles see MLC Standard Preambles (Eleventh Edition)</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><u>General</u></p> <p>This document contains general requirements relating to the Works as a whole and it is to be read in conjunction with the entire Tender Documents.</p> <p>The Tender Document shall be read in conjunction with the Contract, Specifications and Drawings. The Tenderer shall price for the full scope of work covered within the Tender Document, no claim or variations shall be considered on account of the Tenderer failure to comply with this provision.</p> <p>Where the requirements contained herein conflict with the particular requirements contained in other proposal documents; the Tenderer shall allow - in case of conflict or discrepancies, or ambiguity, or else - for the greater value, cost, quality, quantity, for the more stringent requirements, and more benefit for the Project and Employer, and as in the opinion of the Engineer. The Tenderer shall identify any conflict with regard to content or number reference to the Engineer.</p> <p>Descriptions given in the items in the pricing document are not exhaustive, they are to be read and interpreted in conjunction with the relevant specifications and drawings for complete information in respect of all the relevant descriptions, quality, dimensions, capacities, design parameters and the like.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 1          Alterations</p>				<p style="text-align: right;">R</p>

<p style="text-align: right;"><b>Brought Forward</b></p> <p>Descriptions of "removing", or "carting away", of such material shall be deemed to include breaking down where requires, loading such material onto trucks directly from the works and taking such material to a registered dump-site that has been located off-site by the contractor for such disposal. The availability of such dump-site, and its possible subsequent replacement, is at the sole risk of the contractor and no claims in respect of "additional" costs arising from this possibility will be entertained.</p> <p>The contractor is to timeously protect the following existing works with all the means that would be reasonably expected, and take every precaution that would be reasonably expected to ensure no consequential damages are incurred. All "additional" costs that might arise as a result of the contractor failing to take the necessary precautions, or failing to apply such necessary means, will be hereby deemed to be for the contractor's account.</p> <p>Unless otherwise stated, materials removed may become the property of the Contractor and provision shall be made for a credit of these materials to the Employer.</p> <p>Demolition shall be deemed to include grubbing up and removal of foundations.</p>			R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 1          Alterations</p>			R	

<p style="text-align: right;"><b>Brought Forward</b></p> <p>It shall be the responsibility of the contractor to determine whether demolished material is asbestos and requires to be removed by special certified procedure.</p> <p>The cost of this shall be allowed for within the bill rates.</p> <p>The responsibility of determining whether material is asbestos shall be for the contractor and no claims in respect of "additional" costs arising from this will be entertained, whether stated as asbestos in the bill description or not.</p> <p>The Contractor are to note which elements are assumed to be asbestos.</p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p> <p>Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent</p> <p>Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before re-fixing including taking off, easing and re-hanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately</p>			R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 1          Alterations</p>			R	

		Brought Forward			R
	Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc				
	Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing				
	With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork				
	Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary				
	The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)				
	<u>Explosives</u>				
	No explosives whatsoever may be used for demolition purposes unless otherwise stated				
	<b><u>PUBLIC AREAS</u></b>				
	<b><u>REMOVAL OF EXISTING WORK</u></b>				
	<u>Breaking down and removing brickwork etc</u>				
1	Half brick walls		m <sup>2</sup>	103	
2	Demolish and remove existing planter one brick wall approximately 350mm high		m <sup>2</sup>	2	
		Carried Forward			R
	Section No. 2 Bill No. 1 Alterations				

<b>Brought Forward</b>				<b>R</b>
<u>Breaking down and removing partitions</u>				
3	Demolish and remove existing drywall partitions 2.6m high	m <sup>2</sup>	277	
<u>Breaking up and removing reinforced concrete slab, including cutting off and removing reinforcement</u>				
4	Grub-up and cart away existing concrete surface bed approximately 120mm thick	m <sup>2</sup>	384	
5	Break up, loosen and remove existing compacted 150mm G5 layer works, including loading and carting away to an approved dump site	m <sup>2</sup>	384	
6	Hack up and remove existing concrete step	No	1	
<u>Taking out and removing ceiling finishes</u>				
7	Remove existing ceiling including all ceiling boards, panels, cornices, and associated fixtures	m <sup>2</sup>	268	
<u>Taking out and removing floor finishes</u>				
8	Break up and remove existing floor finishes including tiles, adhesive and bedding mortar	m <sup>2</sup>	372	
<u>Taking out and removing existing Joinery</u>				
9	Break up and remove existing kitchen cupboards including all doors, drawers, shelves, carcasses, and associated hardware	No	1	
<u>Taking out doors, windows, etc, including thresholds, sills, etc removed from brick walls</u>				
10	Timber single door and frame not exceeding 2,5m <sup>2</sup>	No	20	
11	Timber single door and frame not exceeding 2,5m <sup>2</sup> to be carefully removed and kept aside to be reinstalled	No	1	
<b>Carried Forward</b>				<b>R</b>
Section No. 2 Bill No. 1 Alterations				

<b>Brought Forward</b>				<b>R</b>
12	Glazed sliding doors 2m high, including frame, ironmongery, etc.	No	1	
13	Glazed timber & aluminium window exceeding 5m <sup>2</sup> and not exceeding 7.5m <sup>2</sup>	No	4	
	<u>Taking out and removing external stormwater reticulation including disconnecting from pipes, traps, catchpits, etc.</u>			
14	Break up and remove existing manhole, depth not exceeding 1.5m, including disposal of rubble backfilling, and making good of surfaces	No	2	
15	Remove existing sewer pipe, including excavation, capping connection, and backfilling	m	12	
16	Remove existing storm water pipe, including to neatly saw cut existing surface bed, excavate to expose pipe work, backfill with selected material and 150mm thick G5 layer work and make good concrete surface bed and floor finishes upon completion	m	16	
17	Extra over for removal of existing floor finishes, including neatly saw cut through existing surface bed approximately 120mm thick and carefully hand excavating to pipe depth, allow to backfill with selected material and 150mm G5 layer works	m <sup>2</sup>	3	
18	Allow for the reinstatement and making good of 120mm thick surface bed and floor finishes to match existing	m <sup>2</sup>	3	
	<u>Breaking up and removing external paving</u>			
19	Remove existing paving and allow to recompact surface soil to new proposed abluton block	m <sup>2</sup>	48	
	<b><u>BUILDING UP OPENINGS</u></b>			
	<b>Carried Forward</b>			<b>R</b>
	Section No. 2 Bill No. 1 Alterations			

Brought Forward				R
	<u>Brickwork in NFP bricks in class II mortar in building up openings</u>			
20	One brick walls, including cement plaster and paint	m <sup>2</sup>	16	
21	330mm thick brick walls, including cement plaster and paint to internal face of wall and extra over for single skin Roan Satin FBX Facebrick to external face of wall	m <sup>2</sup>	5	
	<b><u>GENERAL</u></b>			
	<u>Allow for any other works which are not included above, and which are required to complete the Site Work in accordance with the Specification, drawings and the items documented within the pre-tender site inspection (Tenderer to list below):</u>			
	<b>Carried Forward to Summary of Section No.</b>			R
	Section No. 2			
	Bill No. 1			
	Alterations			

Item No		Quantity	Rate	Amount R
	<p><b><u>BILL NO. 2</u></b></p> <p><b><u>EARTHWORKS</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Nature of ground</u></b></p> <p>The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "soft rock" or "hard rock"</p> <p>All queries with regards to the site soil conditions and the soils investigation are to be directed to the engineer and copied to the quantity surveyor.</p> <p>If the <b>contractor</b> considers that any of the excavations are more difficult in nature than excavations in "earth", he shall immediately notify the <b>Engineer</b> and quantity surveyor in writing. If the <b>contractor</b> fails to make such notification, the excavations shall be deemed to be in "earth" and shall be measured, and valued, accordingly.</p> <p>The <b>contractor</b> may, with the prior written permission of the <b>Engineer</b> 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.</p> <p><b><u>Protection of services</u></b></p> <p>Tenderers are to take note of the location of existing services as identified on site, and provide for their protection.</p>			
	<b>Carried Forward</b>			<b>R</b>
	<p>Section No. 2            Bill No. 2            Earthworks</p>			

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Carting away of excavated material.</u></b></p> <p>Descriptions of carting away of excavated material shall be deemed to include handling and transporting excavated material from site to external loading areas and loading excavated material onto trucks from the loading areas or, alternatively, from stock piles situated on the building site. All material shall be carted off site to a dumping site to be located by the contractor.</p> <p><b><u>Keeping excavations free of water</u></b></p> <p>The <b>contractor</b> 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.</p> <p><b><u>Formwork</u></b></p> <p>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"</p> <p><b><u>Specification</u></b></p> <p>Where BOQ item descriptions are in conflict with Engineers specification, S0000 "General Notes". Then the Engineers specification is to take preference.</p> <p><b><u>Testing</u></b></p> <p>Prices for filling are to include for all necessary density tests in accordance with SABS 1200D.</p> <p><b><u>SITE CLEARANCE</u></b></p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 2          Earthworks</p>		R	

Brought Forward				R
<b><u>Site Clearance</u></b>				
1	Clear the whole site of all grass, roots other vegetation, loose surface boulders, rubble and rubbish including cutting down all trees, bush etc., as well as grubbing existing soil 100mm deep.	m <sup>2</sup>	48	
<b><u>BULK EXCAVATION, FILLING, ETC.</u></b>				
Note: All filling whether obtained from the stockpiles or an outside source must be approved by the Civil Engineer.				
<b><u>EXCAVATIONS, FILLING, ETC. OTHER THAN BULK</u></b>				
<b><u>Excavation in earth not exceeding 2m deep below or reduced level for:</u></b>				
2	Trenches	m <sup>3</sup>	43	
3	Holes	m <sup>3</sup>	1	
<b><u>Extra excavation in all materials to provide working space, including consequent backfilling compacted to 93% MOD AASHTO density for removing formwork, etc.</u></b>				
<b><u>Exceeding 0.5m and not exceeding 1.5m deep</u></b>				
4	For placing and removing formwork to bases, walls etc. against excavated faces	m <sup>2</sup>	132	
<b><u>Extra over all excavations for carting away</u></b>				
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor. (No allowance made for increase in bulk, to be factored in rate)	m <sup>3</sup>	25	
<b>Carried Forward</b>				R
Section No. 2 Bill No. 2 Earthworks				



Brought Forward				R
	<u>Approved brand of anti-termite soil poison applied by a Registered Pest control company and guaranteed against termite infestation for ten years</u>			
11	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	m <sup>2</sup>	429	
12	To bottoms and sides of trenches, etc.	m <sup>2</sup>	174	
Carried Forward to Summary of Section No.				R
Section No. 2				
Bill No. 2				
Earthworks				

Item No		Quantity	Rate	Amount R
	<p><b><u>BILL NO. 3</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>The costs of preliminary test prior to approval of the Contractor's materials and mixes shall be born by the Contractor.</p> <p>The cost of subsequent tests shall be borne by the Employer unless the results show that the materials or concrete do not conform with the specific requirements.</p> <p>Should the Engineer require any load tests to be carried out due to the Contractor's failure to comply with specified requirements, the costs of such load test shall be borne by the Contractor.</p> <p><b><u>Cost of tests</u></b></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)</p> <p>Note: As per SANS 1200D, clause 7. The costs of concrete test cubes shall be included in the rates for all concrete. Tests requested by the Engineer shall be paid for by the Employer subject to the Principle Agents written authorisation.</p>			
	<b>Carried Forward</b>			<b>R</b>
	<p>Section No. 2            Bill No. 3            Concrete, Formwork and Reinforcement</p>			

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Concrete</u></b></p> <p>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</p> <p>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)</p> <p><b><u>Formwork</u></b></p> <p>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.</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>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."</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 3          Concrete, Formwork and Reinforcement</p>		R	

Brought Forward				R
<b><u>Specification</u></b>				
Where BOQ item descriptions are in conflict with Engineers specification, S0000 "General Notes". Then the Engineers specification is to take preference.				
<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
<b><u>25 MPa/19mm concrete</u></b>				
1	Bases	m <sup>3</sup>	1	
2	Strip footings	m <sup>3</sup>	15	
3	Surface beds on waterproofing	m <sup>3</sup>	67	
<b><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></b>				
<b><u>25 MPa/19mm concrete</u></b>				
4	Slabs including beams and inverted beams cast to falls	m <sup>3</sup>	14	
5	Columns	m <sup>3</sup>	1	
<b><u>CONCRETE SUNDRIES</u></b>				
<b><u>Finishing top surfaces of concrete smooth with a wood float</u></b>				
6	Tops of beams	m <sup>2</sup>	11	
<b><u>Finishing top surfaces of concrete smooth with a power float</u></b>				
7	Surface beds, slabs, etc.	m <sup>2</sup>	446	
<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u></b>				
Carried Forward				R
Section No. 2 Bill No. 3 Concrete, Formwork and Reinforcement				

Brought Forward			R
<b><u>Smooth formwork to sides</u></b>			
8	Rectangular columns, exceeding 3,5m and not exceeding 5m	m <sup>2</sup>	7
<b><u>Smooth formwork to soffits</u></b>			
9	Slabs not exceeding 300mm thick propped up not exceeding 3.5m high to falls	m <sup>2</sup>	32
<b><u>Smooth formwork to sides and soffits</u></b>			
10	Isolated beam, propped up not exceeding 3.5m	m <sup>2</sup>	45
<b><u>Boxing in smooth formwork to form</u></b>			
11	20 x 20mm Chamfers along top or bottom edges	m	74
12	20 x 20mm Vertical chamfers at corners	m	13
<b><u>MOVEMENT JOINTS, ETC.</u></b>			
<b><u>Isolation joints with polyethylene joint former "SONDOR" or similar approved between vertical concrete surfaces, all to Structural Engineer's approval)</u></b>			
13	10mm Jointex with 10x10 tear-off strip by SONDOR of similar approved not exceeding 200mm high	m	229
14	Apply 10mm x 10mm Polyurethane joint sealant (Flexothane 1 by ABE or similar approved)	m	229
<b><u>Saw cut joints</u></b>			
15	Machine cut open joint 3mm wide x 50mm deep in top of concrete surface bed including short length, etc.	m	184
16	Cut and ream existing joint to 10mm x 20mm deep in existing concrete surface bed and prepare to take backing chord and sealant	m	184
<b>Carried Forward</b>			<b>R</b>
Section No. 2 Bill No. 3 Concrete, Formwork and Reinforcement			

Brought Forward			R
17	NOM. 10mm diameter "CORDEX: backing strip by "SONDOR" or similar approved.	m	184
18	Apply 10mm x 10mm Polyurethane joint sealant (Flexothane 1 by ABE or similar approved)	m	184
<b><u>Slip Joints</u></b>			
19	10mm level mortar bed with V-joint in plaster on both sides and 3-fold heavy duty PVC membrane	m	50
<b><u>REINFORCEMENT (PROVISIONAL)</u></b>			
<b><u>High tensile steel reinforcement to structural concrete work</u></b>			
20	Bars of various diameters	t	2.29
<b><u>Fabric reinforcement</u></b>			
21	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m <sup>2</sup>	414
Carried Forward to Summary of Section No.			R
Section No. 2			
Bill No. 3			
Concrete, Formwork and Reinforcement			

Item No		Quantity	Rate	Amount R
	<p><b><u>BILL NO. 4</u></b></p> <p><b><u>MASONRY</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Sizes in descriptions</u></b></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick.</p> <p><b><u>Hollow walls etc</u></b></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p><b><u>Face bricks</u></b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour.</p> <p><b><u>Pointing</u></b></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.</p> <p><b><u>Cavity Ties</u></b></p> <p>All cavity ties to be plastic Posi-ties (or similar approved) and are to be included in brickwork rates.</p> <p><b><u>Sundries</u></b></p> <p>All brickwork items are deemed to include for hoop iron ties / straps as required. No separate item will be measured or paid for.</p>			
	<b>Carried Forward</b>			<b>R</b>
	<p>Section No. 2            Bill No. 4            Masonry</p>			

Brought Forward			R
<b><u>FOUNDATIONS</u></b>			
<b><u>"CORO MAXI" 90mm Brickwork of NFX bricks (min. 14MPa nominal compressive strength) in class II mortar</u></b>			
1	Half brick walls	m <sup>2</sup>	10
2	One brick walls	m <sup>2</sup>	35
<b><u>SUPERSTRUCTURE</u></b>			
<b><u>Brickwork of common clay NFP bricks in class II mortar</u></b>			
3	Half brick walls	m <sup>2</sup>	30
4	One brick walls	m <sup>2</sup>	163
<b><u>Extra over for Facebrick walls</u></b>			
5	Extra over for single skin Roan Satin FBX Facebrick	m <sup>2</sup>	54
<b><u>BRICKWORK SUNDRIES</u></b>			
<b><u>Bagging of 1:3 cement and sand mixture to the outer face of the inner skin of external walls, including two coats "Brixeal" Bitumen emulsion waterproofing coating</u></b>			
6	To external one brick walls	m <sup>2</sup>	91
<b><u>R6 Rods or Brick Force</u></b>			
7	Brickforce to foundation brickwork in every 2nd course	m	256
<b><u>Joint forming material in movement joints</u></b>			
8	10mm Bitumen impregnated fibre board built in vertically through brick walls not exceeding 300mm wide	m	120
Carried Forward			R
Section No. 2 Bill No. 4 Masonry			

Brought Forward			R
<b><u>Brickwork reinforcement</u></b>			
9	75mm Wide reinforcement built in horizontally	m	117
10	150mm Wide reinforcement built in horizontally	m	684
<b><u>Prestressed fabricated concrete lintels</u></b>			
11	110 x 70mm Lintels in lengths not exceeding 3m	m	16
<b><u>FACE BRICKWORK</u></b>			
<b><u>Brick-on-edge header course copings, sills, etc of fair face bricks, pointed with recessed joints on all exposed faces</u></b>			
12	Roan Satin FBX Facebrick on edge window cill with solid brick to ends	m	7
13	Roan Satin FBX Facebrick on edge roller course above windows	m	7
Carried Forward to Summary of Section No.			R
Section No. 2			
Bill No. 4			
Masonry			

Item No		Quantity	Rate	Amount R
	<p><b><u>BILL NO. 5</u></b></p> <p><b><u>WATERPROOFING</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>General</u></b></p> <p>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.</p> <p>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.</p>			
	Carried Forward			R
	<p>Section No. 2            Bill No. 5            Waterproofing</p>			

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Materials</u></b></p> <p>GENERAL : All waterproofing to be layed in accordance with SABS 021-1973 "The Waterproofing of Buildings".</p> <p>BITUMEN : Bitumen primer is to be spread at a rate of 0,3 litres per m<sup>2</sup> and allowed to dry before the waterproof sheeting is laid.</p> <p>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.</p> <p>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.</p> <p><b><u>Protection</u></b></p> <p>All necessary precautions are to be taken for the protection of completed work.</p> <p><b><u>Prices</u></b></p> <p>Prices are to include for all preparation of surfaces to receive waterproofing, preparation of surfaces between layers and for cleaning off on completion.</p> <p>Prices are to include for lapping and sealing, etc. and all cutting and waste.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 5          Waterproofing</p>		R	

Brought Forward			R
<b><u>Waterproofing guarantee</u></b>			
GUARANTEE : The Contractor shall furnish a 10 year waterproofing guarantee for all the waterproofing including flashings, outlets and other details installed.			
<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>			
<b><u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u></b>			
1	375 micron "Consol Plastics Brikgrip DPC" In walls	m <sup>2</sup>	27
2	In cavities, in lintels, under copings, under sills, etc.	m <sup>2</sup>	1
<b><u>One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u></b>			
3	Under surface beds	m <sup>2</sup>	424
<b><u>Two coats bitumen emulsion waterproof coating</u></b>			
4	On sides of beams	m <sup>2</sup>	17
5	On inside face of external walls	m <sup>2</sup>	91
<b><u>MEMBRANE WATERPROOFING</u></b>			
<b><u>WATERPROOFING TO ROOF SLABS</u></b>			
<b><u>Apply one layer of Derbigum SP4 laid staggered on one layer of Derbigum SP3 with side and end laps to be fully sealed together by torch on fusion to primed surfaces, complete, as per manufacturers details or equally approved.</u></b>			
6	Surfaces of roofs including turn ups	m <sup>2</sup>	32
<b><u>WATERSTOPS, SEALING STRIPS, JOINT SEALANTS, ETC</u></b>			
Carried Forward			R
Section No. 2 Bill No. 5 Waterproofing			

Brought Forward				R
7	<u>Approved two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u> Sealing between concrete and brick surfaces, not exceeding 300 mm wide	m	458	
Carried Forward to Summary of Section No.				R
Section No. 2 Bill No. 5 Waterproofing				

Item No		Quantity	Rate	Amount R
	<p><b><u>BILL NO. 6</u></b></p> <p><b><u>CARPENTRY AND JOINERY</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Fixing</u></b></p> <p>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.</p> <p>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.</p> <p><b><u>Decorative thermosetting plastic laminate covering</u></b></p> <p>Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish</p> <p><b><u>Extension of Scope of Work</u></b></p> <p>The items set out below comprise a part of the total requirements only. The client reserves the right to negotiate extensions to the current scope of work with the successful tenderer under his contract or to issue subsequent tenderers or to negotiate with other potential contractors for such extensions to current scope.</p> <p><b><u>Measurements</u></b></p> <p>These Bills of Quantities are provisional and are only indicative of the actual quantities required and should not be used for ordering purposes.</p>			
	<p><b>Carried Forward</b></p>			R
	<p>Section No. 2            Bill No. 6            Carpentry and Joinery</p>			

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Protection</u></b></p> <p>The tenderer will be required to protect his work during the course of construction, which protection shall be adequate for the purpose to the full approval of the Principal Agent. Such protection shall only be removed on written instruction.</p> <p><b><u>Description</u></b></p> <p>The description and dimensions of the following items are intended as a means of identifying the items only and are not intended as full descriptions. Tenders are to refer to drawings and make enquiries as no extras will be entertained due to the tenderers failure to do so. The Tenderer shall allow for all costs in his rates to satisfy the above requirements.</p> <p><b><u>Site Visit</u></b></p> <p>The tenderer will be deemed to have visited the site to ascertain site conditions and the scope of works.</p> <p><b><u>Site Measurements</u></b></p> <p>Measurements are to be taken on site prior to the manufacture of any items.</p> <p><b><u>Prices</u></b></p> <p>Prices for all items are to include for site measurements, fabrication, transport, suspension systems, fixing to structural grids, timber trusses and concrete, scaffolding, protection and finishing complete for painting by others.</p> <p><b><u>INTERNAL DOORS, ETC.</u></b></p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 6          Carpentry and Joinery</p>		R	

Brought Forward				R
<u>Semi-solid hardwood horizontal routed meranti door by specialists. Aluminium door frame to fit 90mm drywall partition</u>				
1	D1 - Single door, size 800 x 2032mm high Note: Pricing to include door and door frame	No	16	
<u>Solid hardwood horizontal routed meranti door (2 hour fire rated) by specialists. 86mm x 42mm rebated solid meranti timber frame, door sections to suit 813 x 2032 door size hardwood quadrant to be provided to both sides</u>				
2	D2 - Single door, size 800 x 2032mm high Note: Pricing to include door and door frame	No	1	
<u>Solid hardwood horizontal routed meranti door (2 hour fire rated) by specialists. 86mm x 42mm rebated solid meranti timber frame, door sections to suit 813 x 2032 door size hardwood quadrant to be provided to both sides</u>				
3	D3 - Single door, size 813 x 2032mm high including 600mm x 150mm high GRILLE Note: Pricing to include door and door frame	No	1	
<u>Semi-solid Hardwood Horizontal Routed Meranti Doors by specialists with rebated meeting stiles. 86mm x 53mm rebated solid meranti timber frame door sections to suit door size. Hardwood Quadrant to be provided to both sides.</u>				
4	D4 - Single door, size 813 x 2032mm high including 600mm x 150mm high GRILLE Note: Pricing to include door and door frame	No	2	
5	D5 - Single door, size 813 x 2032mm high Note: Pricing to include door and door frame	No	3	
Carried Forward				R
Section No. 2 Bill No. 6 Carpentry and Joinery				

Brought Forward			R
<b><u>SUNDRY JOINERY</u></b>			
<b><u>Built in cupboards comprising PG Bison 16mm thick Bison board E1 (class 1) to form carcass, PG Bison Melawood Melamine faced board to form door fronts - Lanza Oak, with stainless steel handles and a 100mm high water-proof base.</u></b>			
<b><u>Refer to Kitchen Joinery Detail JD01 Rev A.</u></b>			
6	1452mm x 600mm Built in cupboard	No	1
7	1900mm x 800mm Built in cupboard	No	1
8	600mm x 800mm Drawers	No	1
<b><u>Worktops</u></b>			
9	20mm thick polished Quartz worktop, colour: Calacatta fine	m	4
<b>Carried Forward to Summary of Section No.</b>			R
Section No. 2			
Bill No. 6			
Carpentry and Joinery			

Item No		Quantity	Rate	Amount R
	<p><b><u>BILL NO. 7</u></b></p> <p><b><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Fixing</u></b></p> <p>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</p> <p>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</p> <p><b><u>Ceilings</u></b></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p>			
	<p><b>Carried Forward</b></p>			R
	<p>Section No. 2            Bill No. 7            Ceilings, Partitions and Access Flooring</p>			

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Bulkheads</u></b></p> <p>Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. Their purpose is either to conceal services or to create architectural features</p> <p>Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 1200mm. Where these dimensions are more than 1200mm such portions of ceilings have been included in the appropriate general items of ceilings</p> <p>Descriptions shall be deemed to include any additional studs at ends and intersections, corner beads, cornices at junctions with ceilings, jointing compound, tape, etc.</p> <p>Unless otherwise described bulkheads shall be deemed to be horizontal along the length</p> <p><b><u>Supplementary Preambles</u></b></p> <p>Installation of ceilings, suspension systems, partitioning, etc. to be strictly in accordance with the manufacturer's specifications.</p> <p><b><u>User note</u></b></p> <p>The following preamble to be included in the bills of quantities after confirmation of the basic design of the ceilings, lighting, air conditioning, etc.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 7          Ceilings, Partitions and Access Flooring</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>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).</p> <p><b><u>Measurements</u></b></p> <p>These Bills of Quantities are provisional and are only indicative of the actual quantities required and should not be used for ordering purposes.</p> <p><b><u>Protection</u></b></p> <p>The tenderer will be required to protect his work during the course of construction, which protection shall be adequate for the purpose to the full approval of the Principal Agent. Such protection shall only be removed on written instruction.</p> <p><b><u>Description</u></b></p> <p>The description and dimensions of the following items are intended as a means of identifying the items only and are not intended as full descriptions. Tenders are to refer to drawings and make enquiries as no extras will be entertained due to the tenderers failure to do so. The Tenderer shall allow for all costs in his rates to satisfy the above requirements.</p> <p><b><u>Site Measurements</u></b></p> <p>Measurements are to be taken on site prior to the manufacture of any items.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 7          Ceilings, Partitions and Access Flooring</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b>Prices</b></p> <p>Prices for all items are to include for site measurements, fabrication, transport, suspension systems, fixing to structural grids, timber trusses and concrete, scaffolding, protection and finishing complete for painting by others.</p> <p><b>Note:</b></p> <p>Cornices, mouldings and trims shall be deemed to include for mitres, intersections and any grooves or shaping detail in the ruining lengths.</p> <p><b>Suspension of Ceilings and Bulkheads</b></p> <p>The successful tenderer will be responsible for the method of suspension of the ceilings, ceiling features, beams, etc. and will be liable for any claim which may be made against the Employer by any person whatsoever or any loss or damage whatsoever which the Employer may suffer arising out of any defects in the suspension system.</p> <p>Tenderers are to allow in their prices for employing an appropriate qualified responsible party/person to check and verify structural design of all suspension systems to ceilings and ceiling features. The signature of such responsible party/person to be on all shop details relating to ceiling suspension system for submission to the Architect/Structural Engineer for approval.</p> <p>The successful tenderer is to indemnify the Employer, Professional Team and Principal Contractor against any failure / defect in the design, detailing, calculation, manufacturing and erection of the ceiling suspension system.</p> <p>The contractor to ensure adequate design indemnity cover for the responsible party/person to be employed for verifying such suspension systems.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 7          Ceilings, Partitions and Access Flooring</p>		R	

Brought Forward			R
<p><b><u>Recommendation for Ceiling Inspections</u></b></p> <p>All off site fabrication and on site erection of suspension systems to be checked and verified by the Architect/Structural Engineer and the tenderer is to give adequate notice to the Architect/Structural Engineer in order for such inspections to take place.</p>			
<p><b><u>Steel components</u></b></p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121.</p>			
<p><b><u>LAY-IN CEILINGS SUSPENDED FROM CONCRETE SLAB</u></b></p> <p><u>ThermoCeil vinyl-clad 6 mm calcium silicate ceiling tiles, aluminium foil backed and with 25 mm thick fire-retardant polystyrene glued to the back, shall be used. Ceiling panels measuring 600 × 600 × 31 mm shall be laid on a pre-painted white exposed T-grid suspension system, shot-nailed to the reinforced concrete slab.</u></p>			
1	Lay in ceiling suspended not exceeding 2m below slab.	m <sup>2</sup>	288
<p><b><u>SHADOW LINE</u></b></p> <p><b><u>Shadow trim fixed to ceiling junction, etc.</u></b></p>			
2	Supply and install 25mm aluminium shadow line	m	118
<p><b><u>DRYWALL</u></b></p>			
Carried Forward			R
<p>Section No. 2          Bill No. 7          Ceilings, Partitions and Access Flooring</p>			

<p style="text-align: center;">Brought Forward</p> <p><u>Supply and fit JUMBO Drywall partitioning system with an overall thickness of 90mm comprising internal framing formed of 64 JUMBO Galvanised Steel Studs fixed at 600mm centres to JUMBO Galvanised Steel Tracks including where necessary any additional Galvanised Steel Studding to form door openings, glazing and other apertures, angles, corners and termination ends. Internal steel framing to be dressed on both sides with 12mm thick tapered edge JUMBO Plasterboard in single lengths to suite height, butt jointed and secured to steel studding with 25mm JUMBO Drywall Screws at 220 centres, joints to be taped and jointed with JUMBO Jointing Compound and prepared for decoration. All exposed aluminium door frames, glazing frames, ceiling and wall channels, battens and skirting are to be formed of natural anodised aluminium sections.</u></p>			R	
<p>3 90mm wide JUMBO drywall partitions comprised of 63mm studs and a 64mm track with 63mm Knauf insulation acoustic roll fitted between studs</p>	m <sup>2</sup>	250		
<p style="text-align: center;">Carried Forward to Summary of Section No.</p> <p>Section No. 2        Bill No. 7        Ceilings, Partitions and Access Flooring</p>			R	

Item No		Unit	Quantity	Rate	Amount R
	<p><b><u>BILL NO. 8</u></b></p> <p><b><u>FLOOR COVERINGS, WALL LININGS, ETC</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Pricing of Bills</u></b></p> <p>The tenderer is to include in his pricing for executing the installation in conjunction with other services as no claim for co-ordination will be entertained at a later stage.</p> <p>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.</p> <p>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 Project Manager</p> <p>Quantities contained in these Bills of Quantities are only indicative of the actual final quantities required and shall not be used for ordering purposes.</p> <p>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.</p> <p>Final measurement shall be made from construction drawings or from measurements taken on site.</p>				
	<b>Carried Forward</b>				<b>R</b>
	<p>Section No. 2            Bill No. 8            Floor coverings, wall linings, etc</p>				

Brought Forward				R
1	<p><b><u>Fixing</u></b></p> <p>Floor coverings shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, etc</p> <p>All carpets where required to be ramped up to meet level of tiling.</p> <p><b><u>SKIRTINGS</u></b></p> <p>75mm x 17mm (Jet Black) PVC skirting</p>	m	321	
<p>Carried Forward to Summary of Section No.</p> <p>Section No. 2            Bill No. 8            Floor coverings, wall linings, etc</p>				R

Item No		Quantity	Rate	Amount R
	<b><u>BILL NO. 9</u></b>			
	<b><u>IRONMONGERY</u></b>			
	<b><u>SUPPLY, TRANSPORT AND INSTALL ONLY THE FOLLOWING IRONMONGERY</u></b>			
	<b><u>All ironmongery to be Stainless Steel</u></b>			
	<b><u>HINGES, BOLTS, ETC</u></b>			
	ASSA ABLOY or similar approved			
1	1.5 pairs per leaf of UNION 8352-100FLSS SS flush ball bearing butt hinge 100x75x3mm	No	16	
2	1.5 pairs of UNION 8352-100SS201 2BB 102X76X3mm hinge, SS CE PAIRS, 4 X UNION RH7024 patent fixing screw - nickel plated	No	4	
3	1 pairs of UNION 8352-100SS201 2BB 102X76X3mm hinge, SS CE PAIRS	No	3	
	<b><u>HANDLES</u></b>			
	ASSA ABLOY or similar approved			
4	UNION 6109-06SS SS sandpiper lever handle on rose 19mm (Pairs)	No	17	
5	1 of UNION SS5D96L22-05SS 22mm diameter tubular ss dove pull handle on 152x228mm back plate - Euro cylinder	No	3	
6	1 of UNION SS5023R-05-228W 152x228mm stainless steel push plate RH - Euro cylinder	No	3	
7	SSD93-22-06 Blank 228x76mm backplate	No	3	
	<b>Carried Forward</b>			<b>R</b>
	Section No. 2 Bill No. 9 Ironmongery			

Brought Forward			R
8	SS76X228-06 Blank 228x76mm plate	No	3
<b><u>LOCKS</u></b>			
ASSA ABLOY or similar approved			
9	UNION 2X18SCMKD double cylinder profile MKD SC	No	20
10	UNION SS5305-05SS escutcheon on rose profile (Pairs)	No	17
11	UNION SS5305-75SS escutcheon on rose bathroom (Pairs)	No	3
12	Deadbolt - UNION L-2215-78SS/SL UNION E/P cylinder upright lock	No	17
13	Deadlock - 1 of UNION L-2115-78SS Euro cylinder deadlock stainless steel	No	3
14	Deadbolt - UNION SS2016SS Bathroom Deadbolt - stainless steel	No	3
<b><u>DOOR CLOSERS</u></b>			
ASSA ABLOY or similar approved			
15	1 of ASSA ABLOY DC200 R&P closer en 2-4 sil	No	3
<b><u>SUNDRIES</u></b>			
ASSA ABLOY or similar approved			
16	UNION 87001SS floor door stop satin ss	No	20
17	UNION SS5089-150W Kick plate 150x800mm works	No	7
18	UNION SS5023-06-228W 152x228mm stainless steel push plate - blank	No	3
Carried Forward			R
Section No. 2 Bill No. 9 Ironmongery			

Brought Forward			R
<b><u>SIGNAGE</u></b>			
19	UNION SP5066-06SSE11 FEMALE SIGN 152x152x1.2 ss	No	1
20	UNION SP5066-06SSE10 Male sign 152x152x1.2 ss	No	1
<b><u>BATHROOM FITTINGS</u></b>			
21	UNION SS8025SS Hat & Coat Hook with buffer	No	3
Carried Forward to Summary of Section No.			R
Section No. 2			
Bill No. 9			
Ironmongery			

Item No		Quantity	Rate	Amount R
	<p><b><u>BILL NO. 10</u></b></p> <p><b><u>METALWORK</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><u>Descriptions of bolts, anchors, etc</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete</p> <p>Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres</p> <p><b><u>ALUMINIUM WINDOWS, DOORS, ETC</u></b></p>			
	Carried Forward			R
	<p>Section No. 2            Bill No. 10            Metalwork</p>			

Brought Forward			R
<b><u>Aluminium doors and frames</u></b>			
<b><u>Window Description</u></b> : Extruded aluminium framed window sections shall be fabricated from alloy 6063 or 6061 in temper T5 or T6, all in accordance with the latest edition of BS EN 755. Ventilators shall be pivot hung, outward opening, on stainless steel friction hinges.			
<b><u>Glazing</u></b> : 6.38 mm normal strength sand-blasted laminated safety glass shall comply with SANS 1263 Part 1 & 2, with the name of the manufacturer permanently marked on each pane, visible after glazing, in accordance with SANS 10400 Part N Schedule 1 and SANS 10137:2002.			
<b><u>Ironmongery</u></b> : 305 stainless steel friction hinges shall be fitted to ventilators. Wedgeless handles shall be by "Wispeco."			
<b><u>Window Finish</u></b> : Powder coating shall be Interpon D1025, SANS 1796 compliant, Qualicoat Class 1 compliant powder (60-80 µ), applied by an Interpon-approved applicator in strict accordance with SANS 1578. A 15-year project warranty certificate shall be supplied. Colour: Matt charcoal. All aluminium shall be pre-treated in accordance with SANS 1796 to ensure excellent adherence properties.			
1	W01 (600 x 600)	No	3
2	W02 (900 x 600)	No	3
Carried Forward			R
Section No. 2 Bill No. 10 Metalwork			

Brought Forward			R
	<p><b>Window Description</b> : Extruded aluminium framed sliding window sections shall be fabricated from alloy 6063 or 6061 in temper T5 or T6, all in accordance with the latest edition of BS EN 755. Trelligate to match existing to be fitted to inside reveal</p> <p><b>Glazing</b> : 6.38 mm normal strength clear safety glass shall comply with SANS 1263 Part 1 &amp; 2, with the name of the manufacturer permanently marked on each pane, visible after glazing, in accordance with SANS 10400 Part N Schedule 1 and SANS 10137:2002.</p> <p><b>Ironmongery</b> : 305 Stainless steel friction hinges to ventilators. Wedgeless handles by "Wispeco"</p> <p><b>Window Finish</b> : Powder coating shall be Interpon D1025, SANS 1796 compliant, Polyester Class 1 compliant powder (60-80 μ), applied by an Qualicoat-approved applicator in strict accordance with SANS 1578. A 15-year project warranty certificate shall be supplied. Colour: Matt white aluminium metallic. All aluminium shall be pre-treated in accordance with SANS 1796 to ensure excellent adherence properties.</p>		
3	W03 (1190 x 1500)	No	2
<b>STEEL GATES</b>			
<b>Galvanised Steel Gates</b>			
Hot dipped galvanised steel gate to be priced in accordance with the architects drawing. Drawing No : CW 06 Rev E.			
No further claims will be accepted for any items missed/not priced on the above mentioned drawing.			
4	G01 (1000 x 2000)	No	1
<b>Carried Forward to Summary of Section No.</b>			R
Section No. 2			
Bill No. 10			
Metalwork			

Item No		Quantity	Rate	Amount R
	<p><b><u>BILL NO. 11</u></b></p> <p><b><u>PLASTERING</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Notes</u></b></p> <p>These Bills of Quantities are provisional and are only indicative of the actual final quantities required and should not be used for ordering purposes.</p> <p>All paint used must be applied in strict accordance with manufacturer's instructions.</p> <p><b><u>Protection</u></b></p> <p>The contractor will be required to protect his work during the course of construction, which protection shall be adequate for the purpose to the full approval of the Architect. Such protection shall only be removed on written instruction.</p> <p><b><u>Description</u></b></p> <p>The description and dimensions of the following items are intended as a means of identifying the items only and are not intended as full descriptions. The Tenderer shall allow for all costs in his rates to satisfy the above requirements as no extras shall be entertained due to the contractors failure to do so.</p> <p>V-Joints or the like between brick and concrete surfaces shall be deemed to be included in the external plaster on walls rate.</p> <p><b><u>SCREEDS</u></b></p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 11          Plastering</p>			<p style="text-align: right;">R</p>

Brought Forward			R
<u>Screeds on wood / power floated concrete</u>			
1	Average 25mm thick	m <sup>2</sup>	393
2	Average 100mm thick to falls and currents to receive waterproofing	m <sup>2</sup>	32
<u>INTERNAL PLASTER</u>			
<u>One coat (5:1) cement plaster on brickwork</u>			
3	On walls	m <sup>2</sup>	327
4	On narrow widths	m <sup>2</sup>	16
<u>One coat gypsum skim plaster to drywall partitions, ceiling soffits, etc.</u>			
5	On partitions	m <sup>2</sup>	499
6	On concrete soffits	m <sup>2</sup>	18
Carried Forward to Summary of Section No.			R
Section No. 2			
Bill No. 11			
Plastering			

Item No		Quantity	Rate	Amount R
	<p><b><u>BILL NO. 12</u></b></p> <p><b><u>TILING</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Descriptions and Quantities</u></b></p> <p>The descriptions of the items in this document are intended as a means of locating and identifying the items only and are not intended as full descriptions and specifications of items. Quantities contained in these Bills of Quantities are indicative only and shall not be used for ordering purposes.</p> <p>The Descriptions contained in these Bills of Quantities are to be read in conjunction with the tender drawings and are not intended as a means of identifying the various facets of the works. Tenderers shall allow for all costs in connection with the various items taking full cognizance of the tender drawings, specifications and descriptions in the Bills of Quantities.</p> <p><b><u>Prices</u></b></p> <p>All quantities are measured net, based on actual areas shown on the drawings. Pricing must allow for all wastage, cutting, holes, drilling and protection of existing finishes, during the progress of the works and allow for cleaning off upon completion.</p> <p><b><u>Final Measurement</u></b></p> <p>Final site measurements and requirements shall be made using the latest revision of construction issue drawings.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 12          Tiling</p>			<p style="text-align: right;">R</p>

<p style="text-align: right;"><b>Brought Forward</b></p> <p><b><u>Protection</u></b></p> <p>The contractor will be required to protect his work during the course of construction and installation, which protection shall be adequate for the purpose, to the full approval of the Principal Agent. Such protection shall only be removed upon written instruction from the Principal Agent.</p> <p>Should the tenderer decide that the above mentioned minimum specification is not sufficient and additional protection is required, the tenderer will obtain approval from the Architect prior to tender submission for any such additional protection and include for the same in this tender.</p> <p>Tenderers are to allow for all costs associated with the above mentioned requirements, as no extras will be entertained due to the tenderers failure to do so.</p> <p>Should the contractor not make a separate allowance for protection, it will be deemed included within their rates and no claims will be entertained in this regard.</p> <p><b><u>Supplier Contact Details</u></b></p> <p>Tenders are required to familiarise themselves with the suppliers terms and conditions at the time of tender. Particularly payment and delivery conditions are to be noted to avoid any delays, and no claim relating to payment of suppliers will be entertained at a later stage.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Tiling Adhesive</u></b></p> <p>The Tenderers are to submit to the Principal Agent a full specification regarding the tile adhesive and grouting before any construction starts, for his written approval. Tenderers are to allow for this in their rates as no claims will be entertained in this regard.</p>		R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 12          Tiling</p>		R	

Brought Forward			R
<b><u>Substrate preparation</u></b>			
Tenderers are to note that it has been assumed that tiling will generally be fixed with adhesive to one of the following substrates:			
Existing concrete surface beds / slabs			
New concrete surface beds / slabs			
Brickwork			
Concrete columns and walls			
<b><u>WALL TILING</u></b>			
<b><u>Allow the PC Amount of R250/m2 (Two hundred and Fifty Rand per square meter) for the supply of wall tiles in below rates. Rates to include adhesive, grout, trims, fixing, labour and wastage complete.</u></b>			
1	Splashback	m <sup>2</sup>	1
2	300 x 600 porcelain wall tiles	m <sup>2</sup>	5
<b><u>FLOOR TILING</u></b>			
<b><u>Allow the PC Amount of R250/m2 (Two hundred and Fifty Rand per square meter) for the supply of floor tiles in below rates. Rates to include adhesive, grout, trims, fixing, labour and wastage complete.</u></b>			
<u>600 x 600 Matt Porcelain floor tile</u>			
3	On floors	m <sup>2</sup>	393
<b><u>SUNDRIES</u></b>			
4	Aluminium square edge trim	m	1
5	10mm Kirk Marketing M-Trim movement joint	m	62
<b>Carried Forward to Summary of Section No.</b>			R
Section No. 2			
Bill No. 12			
Tiling			

Item No		Quantity	Rate	Amount R
	<p><b><u>BILL NO. 13</u></b></p> <p><b><u>PLUMBING AND DRAINAGE</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Wire gratings</u></b></p> <p>Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings</p> <p><b><u>Stormwater channels</u></b></p> <p>Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, disposal of surplus material on site, concrete, formwork and reinforcement, etc</p> <p><b><u>Manholes, grid inlets, catchpits and sumps</u></b></p> <p>All manholes, grid inlets, catchpits and sumps are to be priced complete including necessary excavation, concrete base, brickwork, bending, ring beams and backfill. Covers and frames are measured separately.</p> <p><b><u>Soak-away drain</u></b></p> <p>Descriptions of soak-away drain shall be deemed to include excavation, stone filling graded 75mm diameter nominal railway ballast, "Bidim" geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site</p>			
	<p><b>Carried Forward</b></p>			R
	<p>Section No. 2            Bill No. 13            Plumbing and Drainage</p>			

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Septic tanks</u></b></p> <p>Descriptions of proprietary type septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions and disposal of surplus material on site</p> <p><b><u>Stainless steel basins, sinks, wash troughs, urinals, etc</u></b></p> <p>Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)</p> <p>Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)</p> <p>Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)</p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><b><u>Sealing of edges</u></b></p> <p>Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone</p> <p><b><u>uPVC pipes and fittings</u></b></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 13          Plumbing and Drainage</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>uPVC pressure pipes and fittings</u></b></p> <p>Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p> <p>Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints</p> <p><b><u>High density polyethylene (HDPE) pipes and fittings</u></b></p> <p>Pipes shall be type IV and of the class specified with "Plasson" or "Alprene" compression fittings</p> <p><b><u>"Polycop" polypropylene pipes</u></b></p> <p>Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or where so described "Polylock" compression fittings</p> <p>Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p><b><u>Copper pipes</u></b></p> <p>Pipes shall be hard drawn and half-hard "Maksal" pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 13          Plumbing and Drainage</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition</p> <p><b><u>Reducing fittings</u></b></p> <p>Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained</p> <p><b><u>Fixing of pipes</u></b></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level</p> <p><b><u>Paper wrapping to pipes</u></b></p> <p>Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings</p> <p><b><u>Disinfection of water pipework</u></b></p> <p>Water pipework is to be disinfected at completion in accordance with SABS 1200L (provision for disinfection elsewhere)</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 13          Plumbing and Drainage</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.</u></b></p> <p>Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with 20% overlaps</p> <p>Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including mastic, tape, "Layflat" sheeting, securing of same, etc</p> <p>Prices for wrapping of pipes shall include for all work as described to couplings in the length</p> <p><b><u>Laying, backfilling, bedding, etc of pipes</u></b></p> <p>Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled</p> <p>Where no manufacturers' instructions exist, pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following:      SABS 1200L : Medium-pressure pipelines      SABS 1200LD : Sewers      SABS 1200LE : Stormwater drainage</p> <p>Pipe trenches, etc shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB : Earthworks (Pipe trenches)</p> <p>Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200LB : Bedding (Pipes)</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 13          Plumbing and Drainage</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>As-built drawings</u></b></p> <p>Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)</p> <p><b><u>Classification of excavated materials</u></b></p> <p>The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "soft rock" or "hard rock"</p> <p>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.</p> <p>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.</p> <p><b><u>Carting away of excavated material</u></b></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 13          Plumbing and Drainage</p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Testing</u></b></p> <p>The cost for density tests on filling shall be allowed for in the compaction and filling rates as per Clause 7 SANS 1200D</p> <p><b><u>Excavations</u></b></p> <p>Tenderers are to note Over break in excavations is expected due to the nature of the insitu material. There shall be NO ADDITIONAL PAYMENT for additional backfill material required to backfill any trench to completed levels. The rates tendered under the relevant excavation items in the Bill of Quantities shall include for making up overbreak.</p> <p>The rates tendered under the relevant items in the Bill of Quantities shall include for battering or shoring and no additional payment will be made for making the excavations safe.</p> <p><b><u>Measurements and Bills of Quantities</u></b></p> <p>All measurements will be Net on plan measured off construction drawings and all costs are to include for longitudinal lengths and required falls within the tendered rates. Any additional lengths due to falls and longitudinal requirements is to be included in the tendered rates and not the quantities.</p> <p><b><u>STORMWATER DRAINAGE</u></b></p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 13          Plumbing and Drainage</p>		R	

Brought Forward			R
<u>Class 34 uPVC pressure pipes including couplings supplied and laid in trenches on class B bedding and including excavations in earth, risk of collapse, selected backfill (class 1) compacted to 93% MOD AASHTO, consolidated backfill compacted to 93% MOD AASHTO, top soil from excavated material and carting away surplus material to a location within free haul distance off the site</u>			
1	160mm diameter pipes exceeding 1m not exceeding 2m deep	m	39
<u>Pipe to Daylight</u>			
2	<u>160mm diameter uPVC Class 6 pipe to daylight (position to be confirmed on site)</u>	m	18
3	Extra over for 45 degree junctions	No	5
<u>Roof Drainage</u>			
4	Supply and install 100mm full bore roof outlet in roof slab, including flange, dome/grate, waterproofing, sealing and fixing complete	No	2
5	Form opening through reinforced concrete roof slab for outlet, including trimming and making good	No	2
6	Form opening through brickwork for outlet, including trimming and making good internal and external finishes	No	2
7	uPVC full bore rainwater 110mm downpipe fixed to wall, including brackets, clamps and all fittings	m	10
8	Extra over for bends and directional fittings	No	6
9	Connection of downpipe to grid inlet/manhole, including fittings and sealing	No	2
Carried Forward			R
Section No. 2 Bill No. 13 Plumbing and Drainage			

Brought Forward			R
<b><u>Manholes, catchpits, etc</u></b>			
All manholes, catchpits, etc. to the Civil Engineer's satisfaction and in accordance with their detail drawings			
<u>Excavate for and construct manhole or grid-inlet structure 600 x 600mm internally of one brick sides in Engineering bricks Type NFXE-14, including step-irons, on 250mm concrete base class 25/19 with mesh ref. 395, the base benched up in class 20/13 concrete finished smooth, with and including 1040 x 1040 Precast H.D central splay with lid with 450Ø opening for cast iron cover and frame. Cover and frame elsewhere measured.</u>			
10	Exceeding 1m deep but not exceeding 2m deep	No	2
<u>Excavate for and construct storm water grid-inlet manhole structure 450 x 450mm internally of one brick sides in Engineering bricks Type NFXE-14, including step-irons, on 250mm concrete base class 25/19 with mesh ref. 395, the base benched up in class 20/13 concrete finished smooth, with and including 890 x 1890 Precast H.D central splay with lid with 450Ø opening for cast iron cover and frame. Cover and frame elsewhere measured.</u>			
11	Exceeding 1m deep but not exceeding 2m deep	No	2
<u>Excavate for and construct grid-inlet manhole structure 600 x 600mm internally of one brick sides in Engineering bricks Type NFXE-14, including step-irons, on 250mm concrete base class 25/19 with mesh ref. 395, the base benched up in class 20/13 concrete finished smooth, with and including 1040 x 1040 Precast H.D central splay with lid with 600Ø opening for cast iron cover and frame. Cover and frame elsewhere measured.</u>			
12	Exceeding 1m deep but not exceeding 2m deep	No	1
<b>Carried Forward</b>			<b>R</b>
Section No. 2 Bill No. 13 Plumbing and Drainage			

Brought Forward			R
<u>Covers, frames, etc</u>			
<u>Grid Inlets</u>			
13	450 x 450 mm heavy-duty (HD) polymer, tamper-proof grid inlet, including cover and frame, shall be SABS approved.	No	2
14	600 x 600 mm heavy-duty (HD) polymer, tamper-proof grid inlet, including cover and frame, shall be SABS approved.	No	1
<u>Manhole Covers</u>			
15	600 x 600 mm heavy-duty (HD) polymer manhole cover and frame, all tamper-proof, shall be SABS approved.	No	2
<u>Sundries</u>			
16	Allow for the testing of new installation	Item	
<b><u>INTERNAL DOMESTIC RETICULATION</u></b>			
<u>HDPE pipes including straight couplers, fittings, bend, junctions, reducers etc in the running lengths, chased into or fixed to walls or fixed to underside of concrete slabs with 'Sikla" or similar approved rubber insert brackets at required centres.</u>			
17	15mm Pipes	m	41
18	22mm Pipes	m	13
19	50mm Pipes	m	20
<u>Extra over piping for compression fittings</u>			
20	15mm Pipes	m	41
21	22mm Pipes	m	13
Carried Forward			R
Section No. 2 Bill No. 13 Plumbing and Drainage			

Brought Forward				R
22	50mm Pipes	m	20	
	<u>Extra over piping for building paper before plastering, tiling etc</u>			
23	15mm Pipes	m	41	
24	22mm Pipes	m	13	
25	50mm Pipes	m	20	
	<u>Valves, non return valves, meters, strainers etc, all to include for adaptors to the equivalent NOMINAL BORE SIZE of piping.</u>			
26	15mm diameter ball valve including adaptors to piping	No	5	
27	22mm diameter ball valve including adaptors to piping	No	3	
28	50mm diameter ball valve including adaptors to piping	No	1	
	<b><u>SOIL DRAINAGE</u></b>			
	<b><u>SOIL DRAINAGE PIPING AND FITTINGS</u></b>			
	<u>Class 34 uPVC pressure pipes including couplings supplied and laid in trenches on class B bedding and including excavations in earth, risk of collapse, selected backfill (class 1) compacted to 93% MOD AASHTO, consolidated backfill compacted to 93% MOD AASHTO, top soil from excavated material and carting away surplus material to a location within free haul distance off the site</u>			
29	160mm diameter pipe exceeding 1m deep, not exceeding 2m deep	m	54	
	<b>Carried Forward</b>			<b>R</b>
	Section No. 2 Bill No. 13 Plumbing and Drainage			

Brought Forward			R
<u>uPVC drainage pipe fixed to wall (vertical), including all brackets, supports, joints, bends and fittings, complete</u>			
30	50mm diameter pipes not exceeding 1m deep	m	7
31	110mm diameter pipes not exceeding 1m deep	m	8
<u>Extra Over Piping for fittings</u>			
32	50mm Junctions	No	9
33	110mm Junctions	No	10
34	50mm to 160mm Reducers	No	4
35	100mm to 160mm Reducers	No	3
36	45° Bend to suit 110mm pipe	No	3
37	110mm flexible pan connectors	No	3
38	Soil stack to suit 160mm diameter pipe	No	13
39	45° Bend to suit 160mm pipe	No	16
40	90° Bend to suit 110mm pipe	No	3
<b><u>SANITARY FITTINGS AND EQUIPMENT</u></b>			
<b><u>SANWARE</u></b>			
<b><u>Supply, deliver and install the following sanitary fittings including wastes, traps etc and all associated accessories</u></b>			
Carried Forward			R
Section No. 2 Bill No. 13 Plumbing and Drainage			

		Brought Forward		R
	<b><u>WATER CLOSETS</u></b>			
41	<b><u>SF02</u></b> Lyra Plus or similar approved floor standing WC Combi with a ceramic cistern by Jika complete with front push button, fitments and low level flush pipe. Seat and cover to be fitted	No	3	
	<b><u>URINALS</u></b>			
42	<b><u>SF03</u></b> "Vaal" sanitaryware vitreous china wall hung "lavatera ti" urinal with top inlet (code 705462) overall size 600 x 385 x 380m. include 38mm c.p. domical grating , spreader with 20mm diameter thread and two hanger brackets including exposed (top inlet) flushvalve FJ6-000 flushmaster or similar approved anti-vac bottle trap plain 1 ½" x 40mm by dutton plastics or similar approved	No	2	
	<b><u>WASH HAND BASINS</u></b>			
43	<b><u>WH01</u></b> 575 x 455mm rectangular counter top basin with 1 taphole and integrated overflow. Hansgrohe - Talis E2 - Tap - Chrome - single lever basin mixer including pop-up waste, Code: HG31612000 Giobella - Gio - waste and overflow - chrome - bottle trap. Code: GIOA186 Hansgrohe - valves - chrome - angle valves. Code: HG90610800	No	2	
		Carried Forward		R
	Section No. 2 Bill No. 13 Plumbing and Drainage			

Brought Forward			R
	<b><u>SINKS</u></b>		
44	<b><u>SW01</u></b> "Franke" nouveau inset sink model - NVN611 product code 1990001, 800L x 460W mm unit to be manufactured from austenitic stainless steel with a satin finish and supplied complete with 90mm basket strainer waste fittings. Sink to be fitted to kitchen counter top with a minimum 50mm apron all round. Basin "P" trap 1 1/4" x 40mm from Dutton plastics Eng.	No	1
	<b><u>MIXERS, TAPS ETC</u></b>		
45	<b><u>WH01</u></b> "Cobra" or similar approved chrome metering pillar tap product code km2-101 with cold index 1/2" bsp male inlet sans 226 type 2	No	2
46	<b><u>SW01</u></b> "Cobra" Capstan - CS - 215/044CP - with aerated swan neck swivel outlet inlets SANS 226 Type 2	No	1
	<b><u>WASTES, "P" TRAPS ETC</u></b>		
47	<b><u>SF03</u></b> Anti-vac bottle trap plain 1 1/2" x 40mm by "Dutton Plastics" or similar approved	No	2
48	<b><u>Wash Hand Basin Waste</u></b> "Cobra" or similar approved, 301 slotted basin waste with plug, chain and stay 62mm diameter flange, 77mm long shank 1 1/4" bsp male outlet connection	No	2
49	<b><u>Wash Hand Basin Trap</u></b> "Cobra" or similar approved 350 - bottle trap, reseal bottle trap with telescopic basin connection pipe 1 1/4" bsp female inlet and 1 1/2" outlet regulator valves to be provided	No	2
	<b>Carried Forward</b>		R
	Section No. 2 Bill No. 13 Plumbing and Drainage		

		Brought Forward		R
50	<u>WC</u> Angle Valvles including flexi hose connectors	No	3	
51	<u>Mixers</u> Angle valves including flexi hose connectors	No	2	
<b><u>ACCESSORIES</u></b>				
<u>Supply, deliver and install the following fittings</u>				
52	<u>SD01</u> "Serra" or similar approved mild steel white powder coated lockable toilet roll dispenser to hold 3 rolls - colour white (to be confirmed with architect)	No	3	
53	<u>SD02</u> "Franke" or similar approved surface mounted paper towel dispenser STRX600, manufactured from grade 304, 1.5mm stainless steel, satin finished with surface treatment. unit to be provided with cylinder lock and standard key capacity 300-400 towels depending on the type of folding	No	3	
54	<u>SD03</u> "Franke" or similar approved surface mounted soap dispenser strx618, manufactured from grade 304, 1.5mm stainless steel, stain finished with surface treatment. Unit to have a replaceable and refillable 1 litre container which is suitable for liquid, antiseptic soap and a cylinder lock with standard key.	No	3	
55	<u>SA03</u> Cobra or similar approved standard brass hose wall tap, gulley to be provided	No	1	
56	<u>SB01</u> "Sera" or similar approved EVE MK2 sani bin colour white - 500mm closed height	No	2	
		<b>Carried Forward</b>		<b>R</b>
Section No. 2 Bill No. 13 Plumbing and Drainage				

Brought Forward			R
57	<p><b><u>SB02</u></b>            "Franke" or similar approved surface mounted waste bin STRX605 manufactured from grade 304 1.5mm stainless steel satin finished with surface treatment to be provided with cylinder lock and standard key capacity 34 Litres</p> <p><b><u>ELECTRIC WATER HEATERS</u></b>  <u>Supply, deliver and install the following fittings</u></p>	No	2
58	<p><b><u>SA02</u></b>            "Franke" stainless steel 5 litre hydro boil product code 2610009 including zip global plus water filtration kit complete to be provided along with all associated accessories</p> <p><b><u>Testing</u></b></p>	No	1
59	<p>Testing water pipe system</p>		Item
<p><b>Carried Forward to Summary of Section No.</b></p> <p>Section No. 2            Bill No. 13            Plumbing and Drainage</p>			R

Item No		Quantity	Rate	Amount R
	<b><u>BILL NO. 14</u></b>			
	<b><u>GLAZING</u></b>			
	<b><u>MIRRORS</u></b>			
	<b><u>Mirrors with polished edges</u></b>			
1	<b><u>SM01</u></b> 380 x 600 x 6mm Polished edge glass mirror, fixed with 4 x chrome plated domed mirror screw	No	2	
	Carried Forward to Summary of Section No.  Section No. 2 Bill No. 14 Glazing			R

Item No		Quantity	Rate	Amount R
	<p><b><u>BILL NO. 15</u></b></p> <p><b><u>PAINTWORK</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Notes</u></b></p> <p>These Bills of Quantities are provisional and are only indicative of the actual final quantities required and should not be used for ordering purposes.</p> <p>All paint used must be applied in strict accordance with manufacturer's instructions. Refer to Annexure M-Preambles.</p> <p><b><u>Protection</u></b></p> <p>The Sub-contractor will be required to protect his work during the course of construction, which protection shall be adequate for the purpose to the full approval of the Architect. Such protection shall only be removed on written instruction.</p> <p><b><u>Descriptions</u></b></p> <p>The description and dimensions of the following items are intended as a means of identifying the items only and are not intended as full descriptions. The Tenderer shall allow for all costs in his rates to satisfy the above requirements as no extras shall be entertained due to the Sub-contractors failure to do so.</p> <p><b><u>Paint Specification</u></b></p> <p>All painting shall be done in accordance with Architect's specifications unless otherwise described</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 15          Paintwork</p>			<p style="text-align: right;">R</p>

<p style="text-align: center;"><b>Brought Forward</b></p> <p>All painting shall be done in accordance with Architect's specifications unless otherwise described</p> <p><b><u>Colours</u></b></p> <p>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</p> <p><b><u>Guarantee</u></b></p> <p>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.</p> <p><b><u>PAINTWORK, ETC TO NEW WORK</u></b></p> <p><b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b></p> <p><b><u>Dulux, or similar approved, trade alkali-resistant plaster primer shall be applied, followed by two coats of approved "Trade Pure Acrylic Low Sheen PVA" paint, in accordance with the manufacturer's specifications. The colour of the paint shall be Inspired Neutrals Ebony Mists 5 - Night Jewels 5, with a sample to be provided for approval.</u></b></p>		R	
<p>1 Internal walls</p> <p style="text-align: right;">m<sup>2</sup></p>	412		
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2        Bill No. 15        Paintwork</p>		R	

Brought Forward			R
	<p><u>Dulux, or similar approved, trade alkali-resistant plaster primer shall be applied, followed by two coats of approved “Dulux Wall Guard Premium Quality Exterior Coating” paint, in accordance with the manufacturer’s specifications. The colour of the paint shall be white, with a sample to be provided for approval.</u></p>		
2	<p>Ceilings and beams</p> <p><u>ON PLASTERBOARD SURFACES</u></p> <p><u>Apply one coat of undercoat Dulux, or similar approved, trade alkali-resistant primer, followed by two coats of Dulux, or similar approved, trade 65 matt paint, in compliance with SABS 634. The colour shall be white. Stainless steel clout nails shall be provided.</u></p>	m <sup>2</sup>	18
3	<p>Partitions</p> <p><u>ON WOOD</u></p> <p><u>Remove all particles and wipe surface clean of dust. Apply three (3) coats of “Kansai Plascon” or similar approved Suede Exterior Sunproof Varnish to door in strict accordance with the manufacturer’s specifications. Lightly sand between coats using 240-grit sandpaper, allowing 24 hours drying time between each coat. Complete application in accordance with “Timbercare” instructions. Note: Remove all dust before recoating.</u></p>	m <sup>2</sup>	499
4	Doors	m <sup>2</sup>	135
5	Doors frames, etc.	m <sup>2</sup>	8
	<u>Two coats oil wood primer</u>		
6	Backs of frames, linings, etc. not exceeding 300mm wide	m	119
Carried Forward			R
<p>Section No. 2 Bill No. 15 Paintwork</p>			



Item No		Quantity	Rate	Amount R
	<p><b><u>BILL NO. 16</u></b></p> <p><b><u>EXTERNAL WORKS</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Specification</u></b></p> <p>Where BOQ item descriptions are in conflict with Engineers specification, S0000 "General Notes". Then the Engineers specification is to take preference.</p> <p><b><u>STORMWATER</u></b></p> <p><b><u>Concrete Channel</u></b></p>			
1	<p>Construct 1000mm wide concrete V-shaped apron including excavation, 150mm G2 layer compacted to 98% MOD AASHTO density and mesh Ref 345,</p> <p><b><u>Flo-Drain to be priced in accordance with the detail Flo-Drain detail in the engineers drawing No. 26029 Stormwater 201 Rev A.</u></b></p> <p><b><u>No further claims will be accepted for any items missed/not priced on the above mentioned drawing.</u></b></p>	m	26	
2	<p>Construct 100mm diameter Kaypipe Geo-pipe with "A4" BIDIM (SABS approved) between existing and new brickwork, including careful hand excavations to a depth of approximately 1m to carefully expose existing footings, laid to 1:100 fall to connect to new storm water manhole laid on 150mm thick 19mm stone layer and backfilled with selected umgeni sand of varying depth and 300mm thick 19mm stone</p>	m	36	
	<b>Carried Forward</b>			R
	<p>Section No. 2 Bill No. 16 External Works</p>			

	Brought Forward		R
<p><u>Mitre Chute Drain to be priced in accordance with the detail Mitre Chute Drain detail in the engineers drawing No. 26029 Stormwater 202 Rev A</u></p>			
<p><u>No further claims will be accepted for any items missed/not priced on the above mentioned drawing.</u></p>			
<p>3 Mitre Chute Drain consisting of 200mm thick concrete base, mesh Ref 193, with hard burnt brick spaced 100mm end-to-end. 200x400mm deep concrete downstand beam and 200mm thick concrete upstand beam with 2.5m x 1m x 1m deep boulder scour protection</p>	No	1	
<p>Carried Forward to Summary of Section No.          Section No. 2          Bill No. 16          External Works</p>			R

Bill No	Builders Work <u>SECTION SUMMARY - Builders Work</u>	Page No	Amount R
1	Alterations	49	
2	Earthworks	54	
3	Concrete, Formwork and Reinforcement	59	
4	Masonry	62	
5	Waterproofing	66	
6	Carpentry and Joinery	70	
7	Ceilings, Partitions and Access Flooring	76	
8	Floor coverings, wall linings, etc	78	
9	Ironmongery	81	
10	Metalwork	84	
11	Plastering	86	
12	Tiling	89	
13	Plumbing and Drainage	105	
14	Glazing	106	
15	Paintwork	110	
16	External Works	112	
	<b>Carried to Final Summary</b>		R
	Section No. 2		

Item No		Quantity	Rate	Amount R
	<b><u>PROVISIONAL SUMS ETC</u></b>			
	Note : All provisional sums are <u>net</u> and <u>exclude</u> any builders discount.			
	The Employer reserves the right to execute any of the Provisional Sums / Allowances as described below as direct contracts. No claims will be entertained from the Principal Contractor in this eventuality.			
	<b><u>SERVICES INSTALLATIONS</u></b>			
	<b><u>The following sub-contract amounts are for work to be carried out by selected sub-contractors in terms of the Principal Building Agreement</u></b>			
	<b><u>Electrical Installation</u></b>			
1	Provide the amount of R250 000.00 (Two Hundred and Fifty Thousand) for the electrical installation, executed complete	Item		250 000.00
	<b><u>HVAC Installation</u></b>			
2	Provide the amount of R250 000.00 (Two Hundred and Fifty Thousand) for air conditioning installation general ventilation, executed complete	Item		250 000.00
	<b><u>Smoke Detection</u></b>			
3	Provide the amount of R50 000.00 (Fifty Thousand) for installation of smoke detection, executed complete	Item		50 000.00
	<b><u>CCTV</u></b>			
4	Provide the amount of R50 000.00 (Fifty Thousand) for installation of CCTV, executed complete	Item		50 000.00
	<b>Carried Forward</b>			R
	Section No. 3 Bill No. 1 Provisional Sums			

**MBIZANA MUNICIPAL OFFICES  
BILLS OF PROVISIONAL QUANTITIES  
PHASE 1**

Brought Forward			R
	<b><u>Reception Counter</u></b>		
5	Provide the amount of R80 000.00 (Eighty Thousand) for installation of reception counter, executed complete	Item	80 000.00
	<b><u>BUDGETARY ALLOWANCES</u></b>		
	Note: Budgetary allowances listed below are for work to be executed by the Main Contractor and will be measured and evaluated in terms of rates submitted against similar items in these bills and in terms of the conditions of contract.		
	Note: These items are to be taken into account in the pricing of Preliminaries and General as they will not attract separate Preliminaries of their own.		
	<b><u>Allowance for CLO</u></b>		
6	Provide the amount of R40 000.00 (Forty Thousand) for community liaison officer	Item	40 000.00
	<b><u>Allowance for Stormwater Services</u></b>		
7	Provide the amount of R50 000.00 (Fifty Thousand) for re-routing/tie into existing sewer and stormwater services	Item	50 000.00
	<b><u>Allowance for Generator Upgrade</u></b>		
8	Provide the amount of R200 000.00 (Two Hundred Thousand) for the upgrade/refurbishment of the Generator	Item	200 000.00
	Sub Total		R
	<b>Carried to Final Summary</b>		R
	Section No. 3 Bill No. 1 Provisional Sums		

Section No	<u>FINAL SUMMARY</u>	Page No		Amount R
1	Preliminaries & General	42		
2	Builders Work	113		
3	Provisional Sums & Budgetary Allowances	115		
	SUB TOTAL		R	
	Contingency at 5%	%		
	SUB TOTAL EXCL VAT			
	VAT 15%			
	TOTAL INCL VAT			
	<b>TOTAL CARRIED TO FORM OF TENDER</b>		R	