

Item No		Quantity	Rate	Amount
	<u>BILL 1</u> <u>PRELIMINARIES</u> <u>PRELIMINARIES NOTES</u> i) The agreement is to be the JBCC Code 2101 Principal Contract Agreement (Edition 4.1) prepared by the Joint Building Contracts Committee, March 2005 ii) The preliminaries are to be the JBCC Series 2000 Preliminaries prepared by the Joint Building Contracts Committee, January 2001 edition and shall be deemed to be incorporated herein iii) Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof (hereinafter referred to by heading and clause number only) for which such allowance must be made as may be considered necessary iv) Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading v) Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable") vi) If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value and "T" denotes an amount in proportion to time ----- Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01			
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SECTION A: PRINCIPAL BUILDING AGREEMENT				
<u>Definitions (A1)</u>				
1	Definitions and interpretation (clause 1) Clause 1.1 : Shall be deemed to be amended as follows: Add further definitions as follows: BILLS OF QUANTITIES The words "Measuring System" to be substituted with the words "Standard System of Measuring Building Work - sixth edition (revised) -1999" THE CONTRACTOR SHALL PROVIDE Means that the contractor shall provide at his cost unless otherwise stated. F:..... V:..... T:.....	Item	1.00	
<u>Objective and preparation (A2 - A14)</u>				
2	Offer acceptance and performance obligations (clause 2) F:..... V:..... T:.....	Item	1.00	
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3	Documents (clause 3) Clause 3.0 is amended by: Clauses 3.1 & 3.2 are deleted in their entirety Clause 3.3 is deleted and replaced by the following: "The employer REQUIRES the contractor to waive his lien or right to continuing possession of the works as stated in the contract data, the contractor shall do so within two (2) working days of given possession of the site. The employer will NOT provide a payment guarantee. The waiver shall be according to the JBCC Waiver of Contractor's lien form or such other form as stated in the contract data. The contractor shall simultaneously with the signing of every selected or domestic subcontract, deliver to the Principal Agent an undertaking and cession in respect of contractor's lien which shall mutatis mutandis conform to the JBCC Waiver of Contractors Lien form." F:..... V:..... T:.....	Item	1.00		
4	Design responsibility (clause 4) Clause 4.0 is amended by the addition of the following: Should any part or parts of the complete set of tender documentation issued for construction not be clearly intelligible to the Contractor, the Contractor must obtain from the Principal Agent the necessary information with regards to insufficient descriptions and documents to clarify such information. The Contractor shall be held solely responsible for ensuing delays due to nonconformity to the requirements of this clause and additionally any rectification costs of errors arising from incorrect interpretation of drawings, specifications or instructions issued. F:..... V:..... T:.....	Item	1.00		
5	Employer's agents (clause 5) Clause 5.3.2 is amended by the addition of the following				
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Brought Forward to the end thereof:- "The authority of the Principal Agent to issue Contract Instructions or to perform duties as may be required for the relevant aspects of the works is delegated to the other Agents as follows:- 1. PRINCIPAL AGENT The Principal Agent is to manage, administer and monitor the contracts and processes, including the preparation and co-ordination of the procedures and documentation to facilitate practical completion of the works. : 1.1. Arrange site handover to the contractor. 1.2. Establish construction documentation issue process. 1.3. Agree and monitor the distribution of construction documentation. 1.4. Instruct the contractor on behalf of the client to appoint subcontractors. 1.5. Conduct and record regular site meetings. 1.6. Monitor, review and approve the preparation of the construction programme by the contractor. 1.7. Regularly monitor performance of the contractor against the construction programme 1.8. Adjudicate entitlements that arise from changes required to the construction programme. 1.9. Receive, co-ordinate and monitor approval of all contract documentation provided by contractor(s) 1.10. Agree quality assurance procedures and monitor implementation thereof by the other consultants and the contractors Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01		R	
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	1.11. Monitor preparation and auditing of the contractor's health and safety plan and approval thereof by the health and safety consultant.				
	1.12. Monitor preparation of the environmental management plan by the environmental consultant				
	1.13. Establish procedures for monitoring scope and cost variations.				
	1.14. Monitor, review, approve and issue certificates.				
	1.15. Receive, review and adjudicate any contractual claims				
	1.16. Monitor preparation of financial control reports by the other consultants				
	1.17. Prepare and submit progress reports				
	1.18. Coordinate, monitor and issue practical completion lists and the certificate of practical completion.				
	1.19. Co-ordinate and monitor rectification of defects				
	1.20. Manage procurement of operations and maintenance manuals, guarantees and warranties				
	1.21. Manage preparation of as-built drawings and documentation				
	1.22. Manage procurement of outstanding statutory certificates Monitor, review and issue payment certificates				
	1.23. Issue completion certificates				
	1.24. Manage agreement of final account(s)				
	1.25. Prepare and present the project close-out report.				
	2. ARCHITECT				
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Brought Forward The Architect is responsible for the Architectural Design, Functional Design and Quality Control. Without derogating from the generality thereof the architect shall perform the following specific functions and duties:- 2.1. Give opinion on aspects of the works which are not in accordance with the agreement. 2.2. Supply the specified number of drawings. 2.3. Issue instructions if Bills of Quantities / Lump Sum Document are to be used as a specification. 2.4. Be responsible for the Design of the works. 2.5. Be responsible for Primary Co-ordination of Design Elements. 2.6. Receive and accept Design Documentation undertaken by nominated or selected sub-contractors. 2.7. Issue contract instructions to the contractor regarding:- 2.7.1. Alteration to design, quality of the works provided that such contract instructions shall not substantially change the scope of the works. 2.7.2. Removal of any materials and goods from the site and the substitution of any other materials and goods. 2.7.3. Removal or re-execution of any work. 2.7.4. Opening up of work for inspection. 2.7.5. Testing of work and materials and goods. 2.7.6. Protection of the works. 2.7.7. Making good physical loss and repairing damage to the works. 2.7.8. Lists for Practical Completion, Works Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01		R	
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	Brought Forward Completion, Final Completion and defects. 2.7.9. Compliance with Laws, regulations and bylaws. 2.8. Witness the handing over to the contractor of pegs, beacons and datum levels. 2.9. Define levels and provide the contractor with the necessary information to set out the works. 2.10. Inspect the work from time to tome and give the contractor interpretation and guidance on the standard and state of completion required for Practical Completion. 2.11. Inspect the works for Practical Completion. 2.12. Issue Works Completion list and reinspect upon requests of contractor. 2.13. Issue Works Completion list. 2.14. Inspect the works for Works Completion upon request of contractor. 2.15. Inspect the works at the end of the defects liability period. 2.16. Issue a Defects List and reinspect upon request of contractor. 2.17. Acceptance of Design by nominated or selected sub-contractor. 3. QUANTITY SURVEYOR The Quantity Surveyor is responsible for all measurements, valuations, financial assessments and all other Quantity Surveying and cost control functions. Without derogating from the generality thereof, the Quantity Surveyor shall perform the following specific functions and duties:- 3.1. Consult with contractor in correction of rates for errors and discrepancies.		R	
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3.2.	Prepare monthly the Recovery Statement .				
3.3.	Complete the Schedule and arrange for the signing of the agreement .				
3.4.	Hold a signed set of contract documents .				
3.5.	Supply the specified number of unpriced Bill of Quantities .				
3.6.	Identify any changes to the Standard JBCC Documentation in the Schedule and determine any loss and expense caused to the contractor caused by non-disclosure thereof.				
3.7.	Deal with amounts paid by the contractor to authorities having jurisdiction over the works .				
3.8.	Measure and value the making good of physical loss or damage.				
3.9.	Prepare nominated and selected Sub-Contract Tender Documents				
3.10.	Issue contract instructions to the contractor regarding:-				
3.10.1.	Rectification of discrepancies, errors in description or omissions in contract documents .				
3.10.2.	Furnishing proof of payment to nominated and selected subcontractors .				
3.10.3.	Budgetary allowances and work executed by the contractor thereunder.				
3.10.4.	Contingency and other monetary provisions included in the contract sum .				
3.11.	Receive proof from the contractor and the contractor's payment obligations have been met in respect of nominated and selected sub-contractors .				
3.12.	Act on Employers instructions to pay				
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Brought Forward nominated and selected subcontractors directly. 3.13. Adjustment of the contract value in respect of a revision to the date of Practical Completion. 3.14. Calculate penalties for non-completion. 3.15. Valuation of payment claims for Payment Certificates. 3.16. Authorize or otherwise the removal of materials or goods from site by the contractor where these have been paid for. 3.17. Calculate compensatory and penalty interest due to the parties. 3.18. With each Valuation for Payment issue:- • Details of amounts certified for each nominated or selected sub-contractor. • Notification to each nominated and selected sub-contractor showing the formulation of sub-contract amount included in Payment Certificates. • A statement to the Employer and Contractor showing the total amount certified and all adjustment amounts. 2.20. Determine the value of adjustments to the contract value. 2.21. Receive from the contractor details of expense and loss claims and assess such claims. 2.22. Issue Recovery Statement with valuation for Payment Certificate. 2.23. Prepare the final account and submit to contractor. 4. CIVIL AND STRUCTURAL ENGINEER The civil and structural engineer is responsible for all aspects of civil and structural engineering design Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01		R	
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Brought Forward and quality control. Without derogating from generality thereof, the civil and structural engineer will perform the following specific functions and duties in respect of civil and structural engineering aspects of the works: 4.1. Give opinion of aspects of works which are not in accordance with the agreement. 4.2. Supply the specified number of drawings. 4.3. Issue instructions if bills of quantities/lump sum document are to be used as a specification. 4.4. Be responsible for the design of the works. 4.5. Receive and accept design documentation undertaken by nominated or selected subcontractors. 4.6. Issue contract instructions to the contractor regarding:- 4.6.1. Alteration to design, quality or quantity of the works provided that such contract instructions shall not substantially change the scope of the works. 4.6.2. Removal of any materials and goods from the site and the substitution of any materials and goods therefore. 4.6.3. Removal or re-execution of any work. 4.6.4. Opening up of work for inspection. 4.6.5. Testing of work and materials and goods. 4.6.6. Protection of works. 4.6.7. Making good physical loss and repairing damage to the works. 4.6.8. Compliance with Laws, regulations and bylaws. 4.7. Define levels and provide the contractor with the necessary information to set out the Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01		R	
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	Brought Forward works. 4.8. Inspect the work from time to time and give the contractor interpretation and guidance on the standard and state of completion required for practical completion. 4.9. Inspect the works for practical completion. 4.10. Inspect the works for works completion upon request from the contractor. 4.11. Inspect the works at the end of the defects liability period. 4.12. Acceptance of designed by nominated or selected sub-contractors. 5. HVAC ENGINEER The HVAC engineer is responsible for all aspects of HVAC engineering design and quality control. Without derogating from the generality thereof the HVAC engineer will perform the following specific functions and duties in respect of HVAC aspects of the works:- 5.1. Give opinion of aspects of the works which are not in accordance with the agreement. 5.2. Supply the specified number of drawings. 5.3. Issue instructions if bills of quantities / lump sum document are to be used as a specification. 5.4. Be responsible for the design of the works. 5.5. Receive and accept design documentation undertaken by nominated or selected subcontractors. 5.6. Issue contract instructions to the contractor regarding:- 5.6.1. Alteration to design, quality or quantity of the works provided that such contract instructions shall not substantially change Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01		R	
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	Brought Forward the scope of the works. 5.6.2. Removal of any materials and goods from the site and the substitution of any materials and goods therefore. 5.6.3. Removal or re-execution of any work. 5.6.4. Opening up of work for inspection 5.6.5. Testing of work and materials and goods. 5.6.6. Protection of works. 5.6.7. Making good physical loss and repairing damage to the works. 5.6.8. Compliance with Laws, regulations and bylaws. 5.7. Define levels and provide the contractor with the necessary information to set out the works. 5.8. Inspect the work from time to time and give the contractor interpretation and guidance in the standard and state of completion required for practical completion. 5.9. Inspect the works for practical completion. 5.10. Inspect the works for work completion upon request from the contractor. 5.11. Inspect the works at the end of the defects liability period. 5.12. Acceptance of design by nominated or sub-contractor. 5.13. Measure and value the making good of physical loss or damage. 6. ELECTRICAL ENGINEER The electrical engineer is responsible for all aspects of electrical engineering design and quality control. Without derogating from the generality thereof the Carried Forward		R	
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Brought Forward electrical engineer will perform the following specific functions and duties in respect of electrical aspects of the works:- 6.1. Give opinion of aspect of the works which are in accordance with the agreement. 6.2. Supply the specified number of drawings. 6.3. Issue instructions if Bill of Quantities / lump sum document are to be used as a specification. 6.4. Be responsible for the design of the works. 6.5. Receive and accept design documentation undertaken by nominated or selected sub-contractors. 6.6. Issue contract instructions to the contractor regarding:- 6.6.1. Alteration to design, quality or quantity of the works provided that such contract instructions shall not substantially change the scope of the works. 6.6.2. Removal of any materials and goods from the site and the substitution of any materials and goods therefore. 6.6.3. Removal or re-execution of any work. 6.6.4. Opening up of work for inspection. 6.6.5. Testing of work and materials and goods. 6.6.6. Protection of works. 6.6.7. Making good physical loss and repairing damage to the works. 6.6.8. Compliance with Laws, regulations and bylaws. 6.7. Define levels and provide the contractor with the necessary information to set out the works. Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01		R	
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	Brought Forward 6.8. Inspect the work from time to time and give the contractor interpretation and guidance on the standard and state of completion required for practical completion. 6.9. Inspect the works for practical completion. 6.10. Inspect the works for works completion upon request from the contractor. 6.11. Inspect the works at the end of the defects liability period. 6.12. Acceptance of design by nominated or selected sub-contractors. 6.13. Measure and value the making good of physical loss or damage 7. FIRE SAFETY ENGINEER The fire safety engineer is responsible for all aspects of fire safety engineering design and quality control. Without derogation from the generality thereof the fire safety engineer will perform the following specific functions and duties in respect of all fire safety aspects of the works:- 7.1. Give opinion of aspects of the works which are not in accordance with the agreement. 7.2. Be responsible for the design of the works which will be reflected on the architect's drawings for construction. The fire safety engineer will not issue any drawings. 7.3. Issue contract instructions to the contractor regarding:- 7.3.1. Alteration to design, quality or quantity of the works provided that such contract instructions shall not substantially change the scope of the works. 7.3.2. Removal of any materials and goods from the site and the substitution of any materials and goods therefore. Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01		R	
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Brought Forward 7.3.3. Removal or re-execution of any work. 7.3.4. Opening up of work for inspection. 7.3.5. Testing of work and materials and goods. 7.3.6. Protection of works. 7.3.7. Making good physical loss and repairing damage to the works. 7.3.8. Compliance with Laws, regulations and bylaws. 7.4. Define levels and provide the contractor with the necessary information to set out the works – all to be reflected on the architect's drawings 7.5. Inspect the work from time to time and give the contractor interpretation and guidance on the standard and state of completion required for practical completion 7.6. Inspect the works for practical completion. 7.7. Inspect the works for works completion upon request from the contractor. 7.8. Inspect the works at the end of the defects liability period. 7.9. Acceptance of design by nominated or selected sub-contractors – if required. 8. HEALTH AND SAFETY CONSULTANT The health and safety consultant is responsible for all aspects of health and safety. Without derogating from the generality thereof, the health and safety Consultant will perform the following specific functions and duties in respect of health and safety aspects of the works: 8.1. Act as the Client's (Employer's) Agent in terms of the Occupational Health and Safety Act 85 of 1993 construction regulations 2014. Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01		R	
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	8.2. Prepare and update the health and safety specification for the works .				
	8.3. Agree with the contractor the health and safety plan for the works .				
	8.4. Carry out regular audits to ensure adherence to the safety plan, and compliance with the Act and Regulations.				
	8.5. Check the maintenance of all records registers and lists in terms of the requirements of the Act and the Health and Safety Plan and specification.				
	8.6. Issue Contract Instructions to the Contractor regarding:-				
	8.6.1. Compliance with Laws, regulations and bylaws.				
	8.6.2. Compliance with the Health and Safety Plan and specifications for the works including halting the works where necessary.				
	F:..... V:..... T:.....	Item	1.00		
6	Site representative (clause 6)				
	Clause 6.0 : Shall be deemed to be amended by the addition of the following:				
	The names and CV's and organogram of the contractor's proposed management team shall be submitted as part of the tender to be approved by the Principal Agent . After 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.				
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7	Compliance with laws and regulations (clause 7) Clause 7.1 : Shall be deemed to be amended by the addition of the following : The fees for passing of plans will be paid directly by the Employer to the authorities and such fees are not included in these Bills of Quantities. No discount, percentage or profit on such fees will be allowed to the contractor. Without limiting the generality of the provisions of clause 7.0, the contractor's attention is drawn to the provisions of the Construction Regulations, 2014 issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the Employer shall prepare a documented health and safety specification for the works and that the Employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the Act and the regulations and the reasonable provisions of the aforementioned health and safety specifications F:..... V:..... T:.....	Item	1.00		
8	Works risk (clause 8) Clause 8.0 is amended by the addition of the following clause: "8.2.3 The contractor shall be liable for and pay the deductibles, but will be entitled to recover the cost from the party responsible for the loss and/or damages" Delete clauses 8.5.1, 8.5.2 and 8.5.3, 8.5.4 and 8.5.5 and replace it with the following as clause 8.5.1: force majeure F:..... V:..... T:.....	Item	1.00		
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9	Indemnities (clause 9) F:..... V:..... T:.....	Item	1.00
10	Works insurances (clause 10) Clause 10.0 is amended by the addition of the following clause: "10.5 The Contractor shall be liable for and pay the deductibles" F:..... V:..... T:.....	Item	1.00
11	Liability insurances (clause 11) F:..... V:..... T:.....	Item	1.00
12	Effecting insurance (clause 12) F:..... V:..... T:.....	Item	1.00
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13	No Clause (Clause 13) A new clause is added on clause 13 as follows: Temporary works and plant (clause 13) "13.1 Where required in the priced document the contractor shall erect, maintain and remove at completion: 13.1.1 Hoardings with gantries, fans, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others or to meet the specific hoarding requirements of the employer, and 13.1.2 Office accommodation for meetings held on the site which shall be kept clean and fit for use at all times 13.2 All advertising rights on the site and the hoardings are reserved exclusively for the employer. Specific requirements of the employer are described in the priced document. The contractor shall provide and erect notice boards of an approved design as instructed by the principal agent. No individual boards or advertising material shall be allowed on the site without the principal agent's approval. 13.3 The contractor shall provide, maintain and remove on completion all plant, equipment, scaffolding, tools, temporary sheds, enclosures and the like required by the contractor for the due and proper fulfilment of the works 13.4 The contractor shall provide 1 No. main notice boards of an approved design with the title of the project and the names of the employer, the principal agent, the agents and the contractor sign written thereon. The principal agent shall instruct the contractor where the boards are to be erected." F:..... V:..... T:.....	Item	1.00		
14	Security (clause 14) F:..... V:..... T:.....	Item	1.00		
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	<u>Execution (A15-A23)</u>				
15	Preparation for and execution of the works (clause 15) Clause 15.3 is amended by the addition of the following clause: 15.3.5 The contractor shall have inspected the site and any existing structures and be fully acquainted with the conditions under which the works is to be executed, including means of access and any matters which may influence the execution and/or the pricing of the works. 15.3.6 Submit to the principal agent the priced bill of quantities/lump sum document with items priced to include all costs, overheads and profits, extended and cast within 15 (fifteen) working days of acceptance of the contractor's offer. The principal agent may instruct the contractor to adjust prices considered to be imbalanced or unreasonable, and to eliminate errors or discrepancies without any change to the contract sum. 15.3.7 Prepare and submit to the principal agent within 15 (fifteen) working days of being given possession of the site by the employer, a programme for the works in sufficient detail to enable the principal agent to monitor the progress of the works. 15.3.8 Coordinate the programme with subcontractors and direct contractor's programmes. 15.3.9 Submit to the principal agent a progress report containing all necessary information for the principal agent to monitor the progress of the works, in order to ensure no delays to the works, on a monthly basis. 15.3.10 Update the programme to illustrate progress of the works and revise the programme where the principal agent has revised the date for practical completion. The revised programme to be provided to the principal agent within 7 (seven) days of request by the principal agent to the contractor. 15.3.11 Maintain daily records of categories of persons and construction equipment employed on the works, and regularly provide copies of such daily records to the principal agent. 15.3.12 Allow the employer and principal agent				
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	reasonable access to the works, workshops or other places where the work is being prepared, executed or stored. 15.3.13 Provide, maintain and remove, on practical completion all temporary structures, construction equipment and notice boards. 15.3.14 On achieving practical completion, hand over to the principal agent all the information for the preparation of "as built" documents and applicable statutory/regulatory approval certificates. 15.3.15 On achieving practical completion, hand over to the principal agent all operating and instructions manuals, product guarantees and the like. 15.3.16 Cede to the employer on the date of issue of the certificate of final completion, any guarantees, warranties or indemnities pertaining to the works, including any subcontractors, whether nominated or selected. F:..... V:..... T:.....	Item	1.00		
16	Access to the Works (clause 16) Known services - There are existing water, soil drainage, stormwater, electrical services, telephone services, etc serving the existing buildings on the site . The Contractor shall acquaint himself with the position of all such reticulation before any work likely to affect the existing services is commenced. The Contractor will be held responsible for damage caused to existing services and any damage caused by or arising out of the subcontractor's operations shall be made good at his own expense The provision by the Engineer of any drawings or other information indicating the position of any existing services shall in no way relieve the Contractor of his obligation hereunder to acquaint himself with the position of all existing services nor of his liability for damage to such services If a service has to be disconnected, the proposed relocated new service should be first installed and				
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	completed before the change over from the existing to the new service should be first installed and completed before the change over from the existing to the new service takes place. Any discontinuation of existing services and consequential damage and loss to shop owners will be for the account of the contractor The appropriate time for disconnection of existing services and connecting up newly installed services shall be agreed well in advance with centre management, shop owners and the contractor Protection of trees - Prior to the subcontractor commencing work on site, the Contractor shall agree with the Principal Agent which trees and shrubs are to be protected against damage. These trees or shrubs shall be marked in an approved manner and plotted onto a site plan which is to signed by both the Principal Agent and the Contractor. The Contractor shall be solely responsible for protecting these trees or shrubs during the contract period and will be charged the sum of R 10 000.00 (ten thousand Rand) per tree or shrub if in the Principal Agent's opinion any marked tree or shrub is irreparably damaged. Such charge shall be deducted from the following payment certificate F:..... V:..... T:.....	Item	1.00		
17	Contract instructions (clause 17) Clause 17.0 is amended by the addition of the following clause:- "17.1.21 Acceleration – refer to clause 29.10 F:..... V:..... T:.....	Item	1.00		
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18	Setting out of the works (clause 18) The Contractor shall notify the principal agent of any encroachments of adjoining and/or existing foundations, buildings, structures, pavements, boundaries, etc in order that the necessary arrangements may be made for the rectification of any such encroachments F:..... V:..... T:.....	Item	1.00		
19	Assignment (clause 19) F:..... V:..... T:.....	Item	1.00		
20	Nominated Subcontractors (clause 20) Clause 20.0 is amended by the following:- Clause 20.11 is added as the following: The Contractor shall not appoint a nominated sub-contractor on any terms and conditions other than those contained in the tender document prepared in terms of Clause 20.1.1 without written approval of the Principal Agent. Unless expressly provided for elsewhere in this agreement, the contractor shall be responsible for the acts or defaults of any nominated subcontractor, his agent or employees, as if they were the acts or defaults of the contractor. F:..... V:..... T:.....	Item	1.00		
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21	Selected sub-contractors (clause 21) Clause 21.0 is amended by the following:- Clause 21.11 is added by the following:- “21.11 The contractor shall not appoint a selected sub-contractor on any terms and conditions other than those contained in the tender documents prepared in terms of clause 21.1.1 without the written approval of the principal agent”. Unless expressly provided for elsewhere in this agreement, the contractor shall be responsible for the acts or defaults of any selected subcontractor, his agent or employees, as if they were the acts or defaults of the contractor. Add the following as clause 21.12: The contractor is to satisfy himself and give notice to the principal agent to such effect that tenderers to be appointed as selected subcontractors can fulfill the provisions of clauses 21.2.1 and 21.2.2 prior to the opening of the selected subcontract tenders Clause 21.3.2 is deleted as well as the word “either” in clause 21.3 F:..... V:..... T:.....	Item	1.00		
22	Employer's direct contractors (clause 22) F:..... V:..... T:.....	Item	1.00		
23	Contractor's domestic sub-contractors (clause 23) F:..... V:..... T:.....	Item	1.00		
	Carried Forward			R	
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	Brought Forward			R	
	<u>Completion (A24-A30)</u>				
24	Practical completion (clause 24) The Contractor shall not receive any mark-up for overheads and profit on any omission of tenant installation work or tenant installation work by others. Claims of loss of profit shall not be entertained F:..... V:..... T:.....	Item	1.00		
25	Works completion (clause 25)F:..... V:..... T:.....	Item	1.00		
26	Final completion (clause 26)F:..... V:..... T:.....	Item	1.00		
27	Latent defects liability period (clause 27) Clause 27.0 : Shall be deemed to be amended by the addition of the following: Clause 27.4 : Nothing in terms of the latent defects liability period shall be construed so as to restrict or to remove in any way the contractor's liability for any latent or patent defects and any insufficiencies in the works or materials nor to prescribe the Employer's common law of rights in any way Clause 27.5 : The contractor shall be obliged to attend to defects during the maintenance period on a progressive basis. i.e as defects manifest themselves he will be required to make good as reasonably possible to the satisfaction of the principal agent. The contractor will not be permitted to wait until the amount of defects accumulates in order to attend to a comprehensive list of defects. F:..... V:..... T:.....	Item	1.00		
28	Sectional completion (clause 28)F:..... V:..... T:.....	Item	1.00		
29	Revision of date of practical completion (clause 29) Clause 29.1.1 : Shall be replaced in its entirety and				
	Carried Forward			R	
	Section No. 1 Bill No. 1 Preliminaries K-26-05-01				

Brought Forward replaced by the following : Inclement weather shall be defined as weather in excess of the average recorded for the past 10 (ten) years by the nearest commonly recognised weather bureau in the region of the project. The Contractor shall be deemed to have allowed in his programme for the works and opposite this item or in his rates, for the cost of all delays as a result of weather conditions which are average or below that recorded as described above. Furthermore, the Contractor shall also have been deemed to have allowed in his programme for the works and opposite this item or in his rates, for the cost of the loss of five (10) working days lost on the critical path of the programme due to delays as a result of inclement weather as defined above. The above float which is included in the contractor's programme may also be used for any other critical path delays which the contractor may become entitled to, at the sole discretion of the principal agent. Each claim for delays as a result of inclement weather shall be made to the principal agent within seven (7) days of the occurrence thereof, failing which no delays shall be recorded. Clause 29.1.6 : Shall be deleted in its entirety Clause 29.2.6 : Shall be deleted in its entirety Clause 29.2.10 is deleted Clause 29.1.4 is deleted and replaced with: "force majeure". The following clauses shall be deemed to be added to clause 29.0 : Clause 29.9 : Revision to the date for practical completion shall only be considered when work on the critical path of the agreed programme for the works is delayed. Clause 29.10 : Irrespective of whether or not the principal agent rules that the Contractor is entitled to an extension of time or a revision of the date for practical Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01		R	
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	Brought Forward			R	
	completion, the principal agent shall nevertheless, at any time, be entitled to instruct the contractor in writing to accelerate the progress of the remaining works to ensure that the works are completed by the original date for practical completion or revised date as the case may be. Upon receipt of such instruction, the Contractor shall take all necessary steps to ensure that the works are completed timeously including the provision by him of additional resources, plant, manpower, etc. and the working overtime or additional overtimes beyond that contemplated at the time of tender (at all times to the regulations and requirements of all authorities) and by all other adequate and proper means and methods. The Contractor shall prove that such steps are being taken if called upon to do so. The Contractor's entitlement to compensation arising out of or in respect of any revision to the date for practical completion that may have been granted by the principal agent or alternatively where the principal agent has instructed the Contractor to accelerate, shall be adjudicated strictly in terms of clause A32 hereof. The contractor shall not be entitled to any compensation of any nature whatsoever, other than that provided for in terms of clause A32. The removal and replacement of materials and/or workmanship which do not conform to specification or drawing shall not constitute grounds for the extension of the construction period nor for the adjustment of the subcontract value (Clause 29.3) F:..... V:..... T:.....	Item	1.00		
30	Penalty for late or non-completion (clause 30) Clause 30.0 is deemed to be amended by the addition of the following clauses: 30.3 Where the Contractor fails to bring the works or sections thereof to works completion within twenty (30) working days of the date of the issue of the works completion list or revision thereof in terms of 30.6, the contractor shall be liable to the Employer for the penalty per calendar day for non-completion of the works at the rate stated in 30.7				
	Carried Forward			R	
	Section No. 1 Bill No. 1 Preliminaries K-26-05-01				

Brought Forward		R	
30.4 Where the contractor fails to bring the works or sections thereof to final completion within thirty (30) working days of the date of the issue of the defects list or revision thereof in terms of 30.6 the contractor shall be liable to the employer for the penalty per calendar day for non-completion of the works at the rate stated in 30.7. The employer may give notice to appoint others on failure to bring defects to completion within stipulated period. Within five (5) working days of such notice the employer may without further notice employ others to bring defects to completion. The employer may recover expense and loss (33.0) resulting from such employment. 30.5 The contractor may claim additional time for the completion or rectification of work on the works completion list in terms of 30.3 or defects list in terms of 30.5 within five (5) working days from the date upon which the contractor became or ought reasonably to have become aware of a potential delay to the completion or rectification of work on the lists, failing which the contractors right to claim shall lapse. The granting of additional time will be by decision of the employer and/or its nominated agent 30.6 The penalty will be as follows for the works as a whole: 30.6.1 R 500.00 per calendar day for the works that did not reach works completion 30.7 Where the Employer levies such penalties the principal agent shall detail the amount for recovery in terms of 33.1.1 30.8 The contractor shall agree with the employer in writing at least two (2) working days before access to the works is required for the completion or rectification of works on the works completion and defect lists. Should the contractor not be allowed access to the works on the agreed date the contractor will be granted additional time for completion of the works equivalent to the period's access was refused. F:..... V:..... T:.....	Item	1.00	
Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01		R	

	Brought Forward			R	
	<u>Payment (A31 - A35)</u>				
31	Interim payment to the contractor (clause 31) Clause 31.0 is amended as follows: Clause 31.2 shall be amended by adding the following to the end of the first sentence " as of the 10th day of the month, by no later than the 15th day of the month" Clause 31.6.5 is deleted and replaced with: "No materials and goods stored off site will be included in any Payment Certificate" Clause 31.9 is amended with substitution of the words "seven (7) calendar days" with the words "thirty (30) calendar days" following the date of issue of the payment certificate. Payment shall be subject to the contractor giving the quantity surveyor a valid tax invoice for the amount due. Clause 31.10 is deleted F:..... V:..... T:.....	Item	1.00		
32	Adjustment to the Contract value (clause 32) Clause 32.0 is amended by the following: Clause 32.2.3 is amended by the deletion of the words "plus an allowance of ten percent (10%) mark-up thereon" in the third and fourth line and the substitution thereof with the words "all at cost plus an allowance of five percent (5%) mark-up thereon" Clause 32.2.4 is amended by the deletion of the words "but where the omission of such work varies the circumstances in which the remaining work is carried out, the value of the remaining work shall be determined by the method in terms of 32.2.2" Clause 32.4 is amended by the deletion of the words "plus a ten percent (10%) mark-up thereon" in the second line and the substitution thereof with the words "plus five percent (5%) mark-up" Clause 32.0 is amended by the addition of the following				
	Carried Forward			R	
	Section No. 1 Bill No. 1 Preliminaries K-26-05-01				

	Brought Forward clauses : 32.16 The Employer shall also have the right by notice to the Contractor to omit any work covered by the provisional amount or prime cost items contained herein. The Contractor shall not be entitled to claim for any loss of mark-up or discount resultant from the omission of any provisional amount or prime cost items. 32.17 The omission of the work from the agreement and the performance thereof either in terms of 32.16 and/or the performance of such work after the construction period in respect of the relevant portion of the work by direct contract or by any person in terms of 32.16 shall not entitle the contractor to any attendance, mark-up, compensation, consideration, loss or damage under this agreement. Clause 32.6 is amended by the deletion of the words forty (40) workings days and the substitution thereof with the words ten (10) working days." Clause 32.6.2 is amended by the deletion of the words twenty (20) workings days and the substitution thereof with the words five (5) working days." F:..... V:..... T:.....			R
33	Recovery of expense and loss (clause 33) Clause 33.1.4 : Shall be deleted in its entirety Add the following as clause 33.7: Payment of compensatory interest in terms of 31.10 shall not apply since clause 31.10 has been deleted F:..... V:..... T:.....	Item	1.00	
		Item	1.00	
	Carried Forward			R
	Section No. 1 Bill No. 1 Preliminaries K-26-05-01			

	Brought Forward			R	
34	Final account and final payment (clause 34) Clause 34.10 : Shall be deemed to be amended as follows: The words "seven (7) calender days" to be substituted with the words "Thirty one (31) calender days" Clause 34.11 : Shall be deleted in its entirety F:..... V:..... T:.....	Item	1.00		
35	Payment to other parties (clause 35) F:..... V:..... T:.....	Item	1.00		
	<u>Cancellation (A36-A39)</u>				
36	Cancellation by employer - Contractor's default (clause 36) F:..... V:..... T:.....	Item	1.00		
37	Cancellation by employer - loss and damage (clause 37) F:..... V:..... T:.....	Item	1.00		
38	Cancellation by Contractor - Employer's default (Clasue 38) F:..... V:..... T:.....	Item	1.00		
	Carried Forward			R	
	Section No. 1 Bill No. 1 Preliminaries K-26-05-01				

	Brought Forward			R	
39	Cancellation - cessation of the works (clause 39) Clause 39.1 :Shall be deemed to be amended as follows: The words "ninety (90)" to be substituted with the words "thirty (30)" and the words "one hundred and twenty (120)" to be substituted with the words sixty (60)" F:..... V:..... T:..... <u>Dispute (A40)</u>	Item	1.00		
40	Dispute settlement (clause 40) F:..... V:..... T:..... <u>Contract variables (A41)</u> <u>The entire "State Provisions" is replaced with the following:</u>	Item	1.00		
41	The schedule: Pre-tender information (clause 41) F:..... V:..... T:..... Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder 41.1.1 Employer: Development Bank of Southern Africa Limited Tel: (011) 313 3911 E-mail: Postal Address: P.O. Box 1234 Halfway House, Midrand, 1685	Item	1.00		
	Carried Forward			R	
	Section No. 1 Bill No. 1 Preliminaries K-26-05-01				

Brought Forward 41.2 CONTRACT DETAILS 41.2.1 Interest of principal agent or other agents in the project. No 41.2.2 The principal agent named in 41.1.2 above is responsible for the preparation of the contract data schedule and must be contacted should the contractor be uncertain of the information provided or to be provided. Failure to complete the contract data schedule in full may result in the tender being disqualified. 41.2.3 Works Description: The Construction and Completion of Conference Centre and Associated amenities at Nylsvlei Nature Reserve Package A 41.2.4 Site Description: Nylsvlei Nature Reserve 41.2.5 Work or installations by direct contractors: Equipment Fit out, furniture, etc. (to be advised by the principal agent in time). The Contractor is advised to allow for access and attendance when the time comes at no extra cost. 41.2.6 This agreement is for a government contract: yes 41.2.7 Date on which possession of the site is intended to be given: To be advised 41.2.8 Period for the commencement of the works after the contractor takes possession of the site 1 working days 41.2.9 Completion in sections are required No Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01		R	
		R	

Brought Forward 41.2.10 Intended date of practical completion and the penalty per calender day for the works as a whole: Date: To be advised Penalty Amount: "As per the department of public works guidelines" Intended dates of practical completion where sectional completion is required and the penalty per calender day for the works in sections: N/A 41.2.11 Waiver of the contractor's lien or right of continuing possession is required. Yes 41.2.12 Existing premises will be occupied. Where "yes" the specific requirements are described below or detailed in the contract document. Yes The facility shall remain operational. Necessary measures should be taken into effect to minimise disruption to the facility at all times. Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01		R	
		R	

	Brought Forward			R	
	41.2.13 Provision of temporary services is required. Where "yes" the specific requirements are described below or detailed in the contract document				
	Water [OPTION A - Contractor - his cost] [OPTION B - Employer - free of charge] [OPTION C - Employer - metered but contractor cost]	A			
	Electricity [OPTION A - Contractor - his cost] [OPTION B - Employer - free of charge] [OPTION C - Employer - metered but contractor cost]	A			
	Telecom [OPTION A - Contractor - his cost] [OPTION B - Employer - free of charge] [OPTION C - Employer - metered but contractor cost]	A			
	Ablutions [OPTION A - Contractor - his cost] [OPTION B - Employer - free of charge] [OPTION C - Employer - metered but contractor cost]	A			
42	41.2.14 Arbitration rules (<i>as per the following resolution body</i>)				
	The Association of Arbitrators Southern Africa				
	F:..... V:..... T:.....	Item	1.00		
43	41.2.15 The law applicable to this agreement shall be that of [The Republic of South Africa]				
	F:..... V:..... T:.....	Item	1.00		
	Carried Forward			R	
	Section No. 1 Bill No. 1 Preliminaries K-26-05-01				

	Brought Forward				R
	41.3 INSURANCES				
44	41.3.2	Contract works insurance to be effected by Contractor For the sum of: TBA With a deductible of: TBA Supplementary insurance is required Yes			
		F:..... V:..... T:.....	Item	1.00	
45	41.3.3	Public liability insurance to be effected by Contractor For the sum of: TBA With a deductible of: TBA F:..... V:..... T:.....	Item	1.00	
	41.4 DOCUMENTS				
	41.4.1	Waivers of contractors lien is required Yes			
	41.4.2	Number of construction document copies to be supplied free of charge: 3			
	41.4.3	Bills of quantities/schedule of rates drawn up in accordance with: Standard System of Measuring Builders Work - sixth edition (revised) 1999.			
	41.4.4	On acceptance of the tender the bills of quantities/lump sum document is to be submitted within 1 working days			
	Carried Forward				R
Section No. 1 Bill No. 1 Preliminaries K-26-05-01					

Brought Forward		R	
41.4.5 JBCC Engineering General Conditions are to be included in the documents: <i>No</i>			
41.4.6 The contract value is to be adjusted using CPAP <i>No (Refer to the final summary for conditions)</i>			
41.4.7 Details of changes made to the provision of JBCC standard documentation: As referred in these Bills of Quantities			
41.4.8 On achievement of practical completion the contractor is to hand over manuals etc. related to the works as listed below. All proprietary specified products / equipment that carries a Manufacturers guarantee and needs to be maintained in a prescribed manner			
41.4.9 Interim payment certificate to be issued by The 20th of every month			
Carried Forward		R	
Section No. 1 Bill No. 1 Preliminaries K-26-05-01			

	Brought Forward			R	
46	Contractual agreement (Clause 42) The required information of the contracting parties and the amount of the accepted contract sum shall be inserted in the contractual agreement for signature of the agreement by the contracting parties F:..... V:..... T:..... 42.1 Contractor: Physical address: Tel: Fax: E-mail: VAT: 42.2 SECURITIES Variable construction guarantee Yes Fixed construction guarantee & payment reduction No Retention reduction (Refer to clause 14) No 42.3 PAYMENT AND ADJUSTMENT OF PRELIMINARIES 3.1 Payment of preliminaries The payment of preliminaries shall be according to the option of selected by the contractor. The amount included in each monthly payment certificate in respect of preliminaries as stated in the contract data shall be: 3.1.1 Option A	Item	1.00		
	Carried Forward			R	
	Section No. 1 Bill No. 1 Preliminaries K-26-05-01				

	Brought Forward Assessed by the principal agent as an amount prorated to the value of work duly executed in the same ratio as the preliminaries bears to the contract sum excluding: * The amount for preliminaries * Any contingency sum * Any amount in respect of CPAP All inclusive of tax			R	
3.1.2	Option B Calculated from the priced items in the bills of quantities/lump sum document. The contractor and the principal agent shall agree on a division of the priced preliminaries items into: * An initial or establishment charge * A monthly charge * A final or disestablishment charge All inclusive of tax In arriving at such a division cognizance shall be taken of such factors as: * Premiums for annually renewable insurance policies * Plant, scaffolding and the like remaining the property of the contractor or the hiring company and the capital costs thereof not treated as part of the initial stage Where the initial construction period is extended the monthly charge shall be recalculated on the same basis as was originally applied but taking into account the revised construction period and the amounts already paid to the contractor. Should the contractor and the principal agent be unable to agree such division then the principal agent shall make a division of the amount of preliminaries				
	Carried Forward			R	
Section No. 1 Bill No. 1 Preliminaries K-26-05-01					

	Brought Forward to be incorporated in the valuations for each monthly payment certificate. 3.2 Adjustment of Preliminaries The amount or items of preliminaries shall be adjusted to take account of the theoretical financial effect which changes in time and/or value have on preliminaries. Such an adjustment shall be based on the particulars provided by the contractor for this purpose in terms of Option A or B and shall preclude any further adjustment of preliminaries. Adjustment of preliminaries in terms of Options A or B shall apply notwithstanding the actual employment of resources by the contractor in the execution of the works. The adjustment of preliminaries shall be based on the option as selected in the contractor's tender. For the adjustment of the preliminaries both the contract sum and the contract value shall exclude: * The amount of preliminaries * Any contingency sum * Any amount in respect of CPAP Clause 3.2 shall be amended by the addition of the following clause: “Should the Principal Agent instruct the Contractor to accelerate in terms of Clause A29 hereof, the Contractor's entitlement shall be calculated by adding to the entitlement to which he would otherwise have become due should the Contract Period have been extended, a further 30% to the value thereof The additional 30% shall be deemed to fully reimburse the Contractor for any additional expenses and loss beyond that contemplated by the Contractor at time of tender including the under utilization of any resources and the like due to the Contractor having been instructed by the Principal Agent to accelerate			R	
	Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01			R	

	Brought Forward		R	
3.2.1	Option A The amount of preliminaries shall be adjusted in the following categories: * An amount which shall not be varied * An amount which shall be varied in proportion to the contract value as compared with the contract sum * An amount which shall be varied in proportion to the construction period excluding revisions to the construction period for which the contractor is not entitled to adjustment of the contract value in terms of the agreement The contractor shall, within fifteen (15) working days of taking possession of the site, give the principal agent a breakdown, subdivided into the above categories, of the amount for preliminaries in tabulated form, all to the satisfaction of the principal agent Should the contractor fail to provide such information within the period stipulated then the amount for preliminaries shall be deemed to be subdivided into the following proportions: * 10% (ten percent) which amount shall not be varied * 15% (fifteen percent) which amount shall be varied in proportion to the contract value as compared with the contract sum * 75% (seventy five percent) which amount shall be varied in proportion to the construction period as compared with the initial construction period For a lump sum document, should the contractor fail to identify the amount for			
	Carried Forward		R	
Section No. 1 Bill No. 1 Preliminaries K-26-05-01				

	Brought Forward preliminaries then such an amount shall be deemed to be 7,5% (seven and a half per cent) of the contract sum excluding: * Any contingency sum * Any amount in respect of CPAP All inclusive of tax Where sectional completion is required in terms of the agreement, the contractor shall provide the principal agent with the division of the above categorised amounts into sections. Should the contractor fail to provide such information within the period stipulated the categorised amounts shall be prorated to the value of each section			R	
3.2.2	Option B The contractor shall, within fifteen (15) working days of taking possession of the site, provide the principal agent with a detailed breakdown of the amount of preliminaries. This breakdown shall set out, among others, full particulars of administrative, supervisory and other personnel, plant, transport and other resources and charges included in the amount for preliminaries. The contractor shall show the periods to which the individual items relate with the charge rate for such items by means of a programme all to the satisfaction of the principal agent Where sectional completion is required in terms of the agreement, the contractor shall provide the principal agent details of the resources required for each section and those that are common to sections. Should the contractor fail to provide such information within the period stipulated, Option A shall apply				
3.2.3	Payment certificate cash flow The contractor shall provide all reasonable assistance to the principal agent in the preparation of cash flow projections of claims for payment certificates where required by the employer. The projections shall be based on the programme and shall be updated as and when the programme requires updating. The cooperation of the contractor in terms of this				
	Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01			R	

	Brought Forward			R	
	item shall not prejudice his right to receive payment in terms of the agreement				
	Payment of preliminaries	B			
	Adjustment of preliminaries	A			
	<u>SECTION B: PRELIMINARIES (JBCC SERIES 2000 – CODE 2103)</u>				
	Where it has not been appropriate to place exceptional items under section A, these have been included under this section				
	<u>B1: DEFINITIONS AND INTERPRETATION</u>				
	<u>B2: DOCUMENTS</u>				
47	B2.1 CHECKING OF DOCUMENTS				
	F:..... V:..... T:.....	Item	1.00		
48	B2.2 PROVISIONAL BILL OF QUANTITIES				
	Clause 2.2 is amended by the addition of the following:				
	These provisional bills of quantities are not to be used for ordering purposes				
	These provisional bills of quantities have been measured from architect's and engineer's drawings which are in the possession of the quantity surveyor and may be inspected on demand by the Contractor at any time during the progress of the work and until the settlement of the contract on appointment during normal office hours				
	No claim whatsoever will be allowed in respect of errors in pricing due to brevity of descriptions of items in the provisional bills of quantities which are fully described when read in conjunction with				
	Carried Forward			R	
	Section No. 1 Bill No. 1 Preliminaries K-26-05-01				

	Brought Forward			R	
	the relevant specification The quantities, classes and kinds of work set out in this document do not represent the final quantities, classes and kinds of work eventually required to be done. They are to be regarded as provisional only and not intended to indicate the final extent of the work. The entire contract works, when completed, will be remeasured by the quantity surveyor and/or relevant consultants, who shall determine the final quantities of and classes of work eventually executed The Contractor shall be obliged to execute such quantities, classes and kinds of work as the Principal Agent in his sole discretion may deem necessary or which, in the Principal Agents opinion, become expedient from time to time or which may be required to meet the employer's requirement or, notwithstanding any of the foregoing, which the Principal Agent in his sole discretion instructs the Contractor to do, whether or not such quantities, classes or kinds of work may appear in these bills of quantities or on the contract drawings The rates contained in the priced bills of quantities shall apply irrespective of the final quantities, 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 quantities of work set out in these bills of quantities and the quantities of work actually executed, nor as a result of any variation whatsoever between the contract sum and the final value of the works F:..... V:..... T:.....	Item	1.00		
49	B2.3 AVAILABILITY OF CONSTRUCTION DOCUMENTS				
	F:..... V:..... T:.....	Item	1.00		
	Carried Forward			R	
	Section No. 1 Bill No. 1 Preliminaries K-26-05-01				

	Brought Forward			R	
	<u>B3: PREVIOUS WORK AND ADJOINING PROPERTIES</u>				
50	B3.1 PREVIOUS WORK – DIMENSIONAL ACCURACY				
	F:..... V:..... T:.....	Item	1.00		
51	B3.2 PREVIOUS WORK - DEFECTS				
	F:..... V:..... T:.....	Item	1.00		
52	B3.3 INSPECTION OF THE SITE				
	F:..... V:..... T:.....	Item	1.00		
	<u>B4: SAMPLE, SHOP DRAWINGS AND MANUFACTURER'S INSTRUCTIONS</u>				
53	B4.1 SAMPLE OF MATERIALS				
	F:..... V:..... T:.....	Item	1.00		
54	B4.2 WORKMANSHIP SAMPLES				
	F:..... V:..... T:.....	Item	1.00		
55	B4.3 SHOP DRAWINGS				
	F:..... V:..... T:.....	Item	1.00		
56	B4.4 COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS				
	F:..... V:..... T:.....	Item	1.00		
	Carried Forward			R	
	Section No. 1 Bill No. 1 Preliminaries K-26-05-01				

	Brought Forward			R	
	<u>B5: DEPOSIT AND FEES</u>				
57	B5.1 DEPOSIT AND FEES				
	F:..... V:..... T:.....	Item	1.00		
	<u>B6: TEMPORARY SERVICES</u>				
58	B6.1 WATER				
	F:..... V:..... T:.....	Item	1.00		
59	B6.2 ELECTRICITY				
	F:..... V:..... T:.....	Item	1.00		
60	B6.3 TELECOMMUNICATION FACILITIES				
	F:..... V:..... T:.....	Item	1.00		
61	B6.4 ABLUTION FACILITIES				
	F:..... V:..... T:.....	Item	1.00		
	<u>B7: PRIME COST AMOUNTS</u>				
62	B7.1 RESPONSIBILITY FOR PRIME COST AMOUNTS				
	F:..... V:..... T:.....	Item	1.00		
	Carried Forward			R	
	Section No. 1 Bill No. 1 Preliminaries K-26-05-01				

	Brought Forward			R	
	<u>B8: SPECIAL ATTENDANCE ON N/S SUBCONTRACTORS</u>				
63	B8.1 SPECIAL ATTENDANCE Clause 8.1 shall be amended by the addition of the following:- The contractor shall allow all nominated/ selected/ direct subcontractors reasonable usage of hoisting facilities whilst they remain erected. The Contractor shall specifically provide all necessary scaffolding and special scaffolding for all work to the roof, facades, ceilings/bulkheads, electrical works, mechanical works, fire, plumbing & drainage, lecture hall tables and chairs, columns, walls, etc. whether executed by himself or nominated/ selected/ direct subcontractors. F:..... V:..... T:.....	Item	1.00		
	<u>B9: GENERAL</u>				
64	B9.1 PROTECTION OF THE WORKS The Contractor shall specifically take whatever measure he deems necessary to protect existing work and finished work once installed and any damage caused by the Contractor or his Subcontractor shall be made good at the expense of the Contractor F:..... V:..... T:.....	Item	1.00		
	Carried Forward			R	
	Section No. 1 Bill No. 1 Preliminaries K-26-05-01				

	Brought Forward			R	
65	B9.2 PROTECTION/ISOLATION OF EXISTING/SECTIONALLY OCCUPIED WORKS				
	F:..... V:..... T:.....	Item	1.00		
66	B9.3 SECURITY OF THE WORKS				
	F:..... V:..... T:.....	Item	1.00		
67	B9.4 NOTICE BEFORE COVERING WORK				
	F:..... V:..... T:.....	Item	1.00		
68	B9.5 DISTURBANCE The Contractor shall execute the whole of the works with a minimum of disturbance to adjoining premises, and the occupants of those premises to the satisfaction of the principal agent and to comply with all regulations. The Contractor shall be solely responsible for all claims in this connection				
	1. There is no guarantee given or implied that the Contractor will be permitted to utilise any of the plant he proposes to use in the construction of the works				
	2. The Contractor shall take all necessary measures to minimise noise. Such measures shall include inter alia, the use of "silent" compressors				
	3. The Contractor shall take all necessary measures to ensure that no dust emanates from the works . In this regard, the				
	Carried Forward			R	
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Brought Forward Contractor shall allow opposite this item for watering the works and any stockpiles of material on site, whenever necessary, in order to keep dust down. Should the Contractor be of the opinion that watering only is not adequate, then the Contractor shall, at his own expense, use any other methods which he may deem necessary 4. All work is to be carried out in such a manner as to cause no unacceptable and unreasonable noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic and the work shall be carried out to the satisfaction of the principal agent. 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 contract period or contract sum The Contractor is deemed to have accepted full responsibility during any blasting operations that may be carried out, should blasting be permitted. The Contractor shall take all necessary precautions for the safety of all persons, buildings, etc., and is to observe all conditions set forth in government and Local Authorities regulations in connection with the use of explosives and pay all costs and fees in connection therewith The Contractor is to adhere to all instruction of the engineer in regard to blasting procedures but regardless of such instructions the Contractor shall be solely responsible for any damage arising from blasting. All blasting is to be done by a licensed blaster. The Contractor shall indemnify the employer against any claims for damages to persons or property on or near the site from any cause whatsoever arising out of the use of explosives. No claims for any extras whatsoever will be entertained should the Contractor be prohibited by any authority whatsoever from using explosives for carrying out any portion of this contract. Notice of blasting is		R	
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	to be given to the engineer 24 hours before it is intended to perform the work By entering into a contract with the employer the Contractor shall be deemed to have indemnified the employer against and accepts the entire responsibility for any claims, costs, damages and all other loss of whatsoever nature or delays which may arise on the above grounds for an adjustment to the contract period or contract sum				
	F:..... V:..... T:.....	Item	1.00		
69	B9.6 ENVIRONMENTAL DISTURBANCE				
	F:..... V:..... T:.....	Item	1.00		
70	B9.7 WORKS CLEANING AND CLEARING				
	F:..... V:..... T:.....	Item	1.00		
71	B9.8 VERMIN				
	F:..... V:..... T:.....	Item	1.00		
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72	B9.9 OVERHAND WORK F:..... V:..... T:.....	Item	1.00		
73	B9.10 DEFINED WORKS AREA The extent of the site is mainly on the basement area of the facility. Site establishment areas must be agreed with the Principal Agent . The site shall not be used for any purpose other than that of carrying out the works . Access to the site shall be restricted to one entrance and exit point only as directed by the Principal Agent. No claims for extras arising from these matters will be subsequently entertained or admitted Refer also to clause B.6 : Temporary services F:..... V:..... T:.....	Item	1.00		
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74	B9.11 MANAGEMENT OF THE WORKS "The Contractor shall to the satisfaction of the Principal Agent provide, in addition to the Foreman, the services of an experienced and competent Construction Manager and Site Agent supported by a management team who shall, inter-alia be responsible for all activities of the Contractor and all Subcontractors and in particular: (a) Programming (b) Scheduling (c) Reporting (d) Production of shop drawings and samples (e) Procurement and expediting (f) Liaison and co-ordinating of construction (g) Commissioning, instruction, handover and follow-up (h) Monitoring and reporting on building activities taking place off-site" The names and CV's of the Contractor's site management team shall be submitted to the Principal Agent prior to commencement on site and, after agreement on the composition thereof has been obtained, no changes shall be made nor shall any member of the said team be removed from the site while remaining in the employ of the Contractor without express written approval F:..... V:..... T:.....	Item	1.00		
75	B9.12 PROGRAMME FOR THE WORKS "B9.12.1Immediately 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 first month of the construction period the Contractor shall prepare and draw up in conjunction with the Principal Agent the programme for the balance of the				
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Brought Forward works in accordance with the conditions of this clause B.9.12 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. B9.12.2 Notwithstanding the fact that the programme has been prepared in conjunction with the Principal Agent, the Contractor shall be responsible at all times for maintaining the accuracy, validity and reasonableness of the programme, and the implementation thereof and shall not be relieved of any of his obligation under the conditions of contract or his responsibility for preparing elementary and maintaining the programme for the works and the Contractor shall have at his disposal staff with the experience, technical ability and expertise to ensure that the programming is realistic. Contractors are invited to discuss any difficulties encountered or foreseen with these programming requirements with the Principal Agent prior to the submission of tenders B.9.12.3 The programme shall be compiled based on the Critical Path method of programming and the critical activities are to be clearly highlighted. It shall be compiled in such a way that logic is not constrained by resource limitations unless specifically agreed otherwise by the Principal Agent. The programme will be processed on the Principal Agents system and the Contractor shall provide all the co-operation necessary to achieve this. Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01		R	
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Brought Forward B9.12.4 Documentation will not be available in complete detail at the commencement stage. However the Contractor, in conjunction 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. The quantities contained in this document are provisional and shall be utilized as a guide only for the drawing up of the programme. 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. B9.12.5 Should circumstances change to the extent where the Contractor is of the opinion that changes to the programme are required, then the Contractor shall make 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. Should there be any float period indicated between the contractual completion dates and the contract programme completion dates then this float shall be used at the discretion of the Principal Agent first to absorb any delays or extensions of time without affecting the contractual completion date Any extension of time, which is sanctioned by the Principal Agent, will be specifically annotated in the programme and the associated effect Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01		R	
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Brought Forward will be incorporated in the revised programme. Should the additional activities or the extension of time on existing activities fall on a non-critical area of the programme, extension will be limited to the activities affected by the said additional activities or extensions and the contractual dates shall not be affected. If, however, the additional activities fall on the critical path, the Principal Agent will take this into account when granting any extension of time in terms of the Conditions of Contract 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. Any acceleration and/or special measures sanctioned by the Principal Agent together with associated effects shall be incorporated in a revision to the Programme. B9.12.6The Contractor and the Principal Agent shall, at regular intervals not exceeding one month, 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. B9.12.7In addition to the programming requirements as contained herein. Within 14 (fourteen) calendar days after being appointed to carry out the works, the Contractor shall submit a Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01	R
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Brought Forward proposed schedule of Information Required, "Info Schedule" to all parties concerned, indicating dates upon which information and details are required and the dates on which selected subcontractors are to be appointed in relation to the building programme. Such dates are to take cognizance of lead times and commissioning periods The Info Schedule shall be directly related to the agreed Construction Programme and shall not contain any requirements which are, in the Principal Agent opinion, unreasonable or premature The proposed Info Schedule will be circulated to all professional consultants for consideration and approval. The Info Schedule, as may be amended and finally agreed upon, will then become the Info Schedule for the contract Thereafter timeous advance notice is to be given by the Contractor for further details information or drawings which are required on site		R	
F:..... V:..... T:.....	Item 1.00		
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76	B9.13 ENCLOSURE OF THE WORKS Hoardings shall be as dictated by site circumstances and as may be required by any authority. Adequate hoarding for the site (including hoarding off areas of the facility that will be off limits to the contractor's personnel) and the contractor's lay down area shall be prepared and priced for by the contractor accordingly, it is imperative that the contractor visits the site and requests more information from the principal agent on these areas. All costs in connection therewith must be borne by the Contractor including any costs in complying with any local or other authorities requirements in this regard Notwithstanding the above, the Contractor shall maintain, move where necessary and provide any additional entrances as he may require and remove the fence or hoarding on completion All hoardings to be maintained to an acceptable standard to the principal agents approval F:..... V:..... T:..... B10: SCHEDULE OF VARIABLES <u>SECTION C: ADDITIONAL PRELIMINARY CLAUSES</u> The following clauses are additional to, or augment the clauses contained in sections "A" and "B" of these preliminaries.	Item	1.00		
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78	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 contract. 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. 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. The Contractor shall execute work during "overtime" hours as dictated by the specific requirements of this project and necessary in order to complete the project within the agreed construction period and shall provide such resources and work such overtime hours as necessary. Note that no work such as demolitions, breaking down of walls or any other work which will generate a noise level that would inconvenience any neighbouring occupants during normal working hours as referred to below will be allowed without notifying and agreeing the same with the principal agent. The contractor should allow for this work to take place between 7:00am and 17:00pm. Costs for the execution of this work under these conditions shall be included within the Contract sum Should overtime be required to be worked for any reason whatsoever, the cost of such overtime is to be borne by the contractor, unless the employer or the principal agent has specifically authorized prior to execution thereof, that costs for such overtime are to be borne by the employer. F:..... V:..... T:.....	Item	1.00		
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	Section No. 1 Bill No. 1 Preliminaries K-26-05-01				

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	<u>C3: NATURE OF PROJECT IN RELATION TO PRICING</u>				
79	Tenderers are advised that the nature of this contract is such that the rates and prices contained herein as well as the amounts allowed shall remain of full force and effect regardless of the final quantities. F:..... V:..... T:.....	Item	1.00		
	<u>C4: COST OF CLAIMS</u>				
80	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 F:..... V:..... T:.....	Item	1.00		
	<u>C5: DIRECT CONTRACTS</u>				
81	CLAUSE 5.1 : DIRECT AND SEPARATE CONTRACTS The Employer shall have the right to employ other Contractors (hereinafter referred to as "Direct Contractors") to execute any special or other works whether contained in this Contract or not, concurrently with the work being executed under this Contract. In addition, the Employer shall have the right to send on to the Works any electronic fittings, information technology work, furniture and furnishings and have same installed by his own employees or by Direct Contractors. 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 the work of and "attend upon" such Direct				
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Brought Forward 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 of the site, and shall not in any way hinder or prevent the execution of their work The Contractor is to allow for any costs in connection with providing access for and coordinating and "attending upon" such Direct Contractors, etc., and for the use of the facilities stated above and no additional claim will be entertained due to the presence on the Works of such Direct Contractors Should the Contractor be required to make good after such Direct Contractors or to prevent jobbing, etc., the Contractor will be compensated for any costs incurred by him the terms of Clause 32 of the Principal Building Agreement Without in any way detracting from the generality of the above, Contractors are advised that the following works will be carried out by the Employer and/or their direct Contractors and the value of such work is not included in this Contract: • Equipment • Audio Visual equipment The contractor should allow for early occupation for the installation of these facilities, specifically computer room(s), to enable the direct contractors to finish their first and second fix items on or before practical / sectional completion. The final fix equipment will only be installed after practical completion for insurance purposes. A detailed schedule indicating the anticipated early occupation dates for the various items shall be agreed between the contractor and the principal agent Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01		R	
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	<u>C6: MODE OF PROCEDURE</u>				
82	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 works 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. 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 B3.2.6 hereof shall apply. 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.				
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	<u>C7: CONFIDENTIALITY</u>				
83	The contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings wherever necessary. Such information shall not be used in any way except in connection with the execution of the works No information regarding this project shall be published or disclosed without the prior written consent of the employer F:..... V:..... T:.....	Item	1.00		
	<u>C8: SITE INSTRUCTIONS</u>				
84	Contract instructions issued on site are to be recorded by the Principal Agent in a Site Instruction Book which will be issued by the Principal Agent and which shall be maintained on site. Only site Instructions issued in such book shall be recognized F:..... V:..... T:.....	Item	1.00		
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<u>C9: METHOD OF STATEMENT</u>				
85	The Tenderer 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. F:..... V:..... T:.....	Item	1.00	
<u>C10: OVERLOADING</u>				
86	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, e.g. 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 agent's requirements in connection with the provision of temporary support work, etc. Any damage caused to the works by overloading shall be made good by the contractor at his sole expense. Notwithstanding any approval, comments or directions given by the Engineer the Contractor shall be entirely responsible for damage caused to the Works by overloading which damage shall be made good by the Contractor at his sole expense F:..... V:..... T:.....	Item	1.00	
<u>C11: HANDOVER, GUARANTEES AND MAINTENANCE INSTRUCTION MANUALS</u>				
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87	CLAUSE 11.1 : AS BUILT DRAWINGS 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. 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. All such as built drawings are required to be lodged prior to the issue of the certificate of works completion (refer Clause A25 hereof). CLAUSE 11.2 : GUARANTEES AND MAINTENANCE INSTRUCTIONS/MANUALS The Contractor shall obtain and hand over to the Principal Agent on practical completion any operating and maintenance instruction manuals data or instructions required by the Principal Agent or provided by manufacturers, suppliers or Subcontractors The Contractor shall ensure that all warranties and guarantees received are fully ceded to the employer on works completion, failing which, the issue of the works completion certificate and the release of construction guarantee, will be withheld until this is satisfactorily completed. 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. Please note that the University of Johannesburg Requires a five (5) year guarantee on all work, material and equipment				
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	CLAUSE 11.3 : SECURITY AT COMPLETION 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. F:..... V:..... T:.....	Item	1.00		
	<u>C12: GENERAL IN RESPECT OF SPECIALIST INSTALLATIONS</u>				
88	Note : The contractor is to ensure that the following requirements, as stated in the subcontractor documentation in respect of specialist equipment and services installations by specialist subcontractors under his control, are adhered to: CLAUSE 12.1 : TESTS AND INSPECTIONS PRIOR TO COMPLETION 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 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. In the event that the principal agent or his representatives cannot witness such tests, the employer may: i) appoint a specialist inspection organisation to witness such tests at his Expense on behalf of the principal agent or his representatives. OR ii) accept the subcontractors certificate testifying as to the quality and Performance of the specialist plant / equipment so supplied. 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				
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Brought Forward accordingly for delivery. 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. 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. The principal agents shall be afforded access at all reasonable times to such part of the works on site or at the subcontractor's premises or the premises of the manufacturer of component parts, as may be necessary for the purpose of inspecting, examining and testing the materials, workmanship and performance of any plant or equipment for the works. The subcontractor shall be responsible for the tests required by any local statute, building regulation, etc. 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. CLAUSE 12.2 : PERFORMANCE OF INSTALLATION 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 and/or suppliers. The contractor & subcontractors, 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		R	
Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01		R	

	Brought Forward the manufacturer's design and performance figures, as well as to comply with the specification supplied. CLAUSE 12.3 : GUARANTEE The contractor & subcontractors shall guarantee the complete installation for a period of five years or as directed by the Principal Agent 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. The expiry of the one year guarantee period shall in no way relieve the subcontractor of any of his obligations and/or responsibilities in respect of latent defects in terms of Clause A27 hereof. 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 5 years mentioned herein. CLAUSE 12.4 : COMMISSIONING AND TESTING The contractor & subcontractors 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. F:..... V:..... T:..... C13: GENERAL			R	
89	CLAUSE 13.1 : CONTRACTOR TO BE RESPONSIBLE The contractor acknowledges that the principal objective of his appointment is his expert knowledge in the execution of the scope of work of this contract. The Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01	Item	1.00		
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Brought Forward contractor shall be solely responsible for all aspects of the construction the works including but not limited to management, resourcing, programming and co-ordination of sequencing of work all as required for the type of project described and within the time limits and quality standards specified. CLAUSE 13.2 : MEDIA RELEASES, ADVERTISING, ETC 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. 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. CLAUSE 13.3 : STRUCTURAL SAFETY 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. CLAUSE 13.4 : CONDEMNED WORK The contractor shall remove from the site all materials not conforming with the relevant specification and condemned by the principal agent, whether incorporated in the works or not. He shall replace such material and re-execute the affected work in accordance with the contract and without expense to the employer. The contractor shall also bear the expense of making good any other work damaged or destroyed by such removal or replacement. CLAUSE 13.5 : PHOTOGRAPHIC RECORD A two weekly photographic record is to be provided by the contractor, recording the state of progress of the works. Copies of each photograph annotated with the location and date, are to be made available to the employer via the principal agent. Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01		R	
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Brought Forward CLAUSE 13.6 : ROYALTIES, PATENT RIGHTS AND FEES 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. 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. 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. 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. 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 Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01		R	
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Brought Forward 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. CLAUSE 13.7 : QUALITY ASSURANCE The tenderer is to submit their proposed formal Quality Assurance procedures with their tender submission for review by the Principal Agent. The cost of preparing and implementing the Quality Assurance procedures is to be borne by the contractor. F:..... V:..... T:..... Carried Forward Section No. 1 Bill No. 1 Preliminaries K-26-05-01	Item 1.00	R	
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	<u>C14: MAINTENANCE OF ROADS AND SERVICES</u>				
90	The contractor shall keep the approaches of the site clear of mud, dust, other debris and the like caused by the contractor or any subcontractors. The contractor shall regularly water the access road to keep it free from excessive dust. Damages caused to public and private roads and services due to negligence by the contractor, shall be made good by the contractor at his own expense. Without limiting the generality of the provisions of clause 7.0 of the agreement, the contractor's attention is drawn to the provisions of the Construction Regulations, 2014 issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The principal agent shall, on behalf of the employer, issue such health and safety specification in due course and in the interim the contractor shall price separately opposite this item for compliance with the standard provisions of the act and regulations. Any costs as a result of variation between the standard provisions and the actual health and safety specification for the works shall be resolved in terms of clause 32.0 of the agreement. F:..... V:..... T:.....	Item	1.00		
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<u>C15: COMMUNITY LIAISON OFFICER</u>				
91	The Contractor shall allow for the appointment of a community Liaison Officer (CLO) to act as a facilitator between the local community and the contractor for the full duration of the contract. The CLO's remuneration and all associated costs shall be borne by the contractor.			
	F:..... V:..... T:.....	Item	1.00	
<u>C16: RESIDENT ENGINEER'S OFFICE</u>				
92	The contractor shall establish office accommodation for the Resident Engineers' staff including furniture, services and carports. Minimum area of 18m2 including furniture for 2 people			
	F:..... V:..... T:.....	Item	1.00	
<u>C17: HEALTH AND SAFETY REPRESENTATIVE</u>				
93	The Contractor shall allow for the Selection, payment and appointment of competent Health and Safety Officer approved by the Representative/Agent, for inspections of the workplace, keeping records and report all findings to the responsible person, all in accordance to the Health and Safety Specification.			
	F:..... V:..... T:.....	Item	1.00	
<u>C18: APPOINTMENT AND TRAINING OF A HEALTH AND SAFETY REP, FIRST AIDER & FIRE FIGHTER</u>				
94	Allow for training of a health and safety rep, first aider and a fire fighter, all in accordance with the Health and Safety Specification			
	F:..... V:..... T:.....	Item	1.00	
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	Brought Forward			R	
	<u>C19: PROVISION OF FIRST AID BOXES, FIRST AID EQUIPMENT & FIRE FIGHTING EQUIPMENT</u>				
95	Allow for provision of first aid box , first aid equipment and fire extinguisher all in accordance with the Health and Safety Specification.				
	F:..... V:..... T:.....	Item	1.00		
	<u>C20: PROVISION OF PERSONAL & PROTECTIVE EQUIPMENT (PPE)</u>				
96	Allow for provision of PPE all in accordance with the Health and Safety Specification				
	F:..... V:..... T:.....	Item	1.00		
	<u>C21: PROVISION OF HEALTH AND SAFETY SIGNAGE AND POSTERS</u>				
97	Allow for provision of health and safety signage and posters all in accordance with the Health and Safety Specification				
	F:..... V:..... T:.....	Item	1.00		
	<u>C22: PROVISION OF WELFARE FACILITY</u>				
98	Allow for provision of well fare facility all in accordance with the Health and Safety Specification				
	F:..... V:..... T:.....	Item	1.00		
	<u>C23: CLOSE OUT REQUIREMENTS</u>				
99	The Principal Contractor to provide a consolidated close out Health and Safety File confirming the Health and Safety history of the project through a SHE agent				
	F:..... V:..... T:.....	Item	1.00		
	Carried Forward			R	
	Section No. 1 Bill No. 1 Preliminaries K-26-05-01				

	Brought Forward			R	
	<u>C24: REPORTING BY CONTRACTOR</u>				
100	The Contractor is required to complete the CONTRACTOR MONTHLY REPORT which is to be submitted together with the Contractor's payment claim. Payment of the Contractor is conditional on this information being accurate and timeously provided. Payment shall be subject to the Employer giving the Contractor a tax invoice for the amount due. The Contractor is to take note of the following requirements -At the bottom of the CONTRACTOR MONTHLY REPORT, the Site Agent, Clerk of Works, CLO or Contractor must sign the document as proof that the people indicated have worked the number of days F:..... V:..... T:.....	Item	1.00		
	<u>C25: EMPLOYMENT OF LOCAL RESOURCES</u>				
101	Main contractor to conduct a detailed labour risk assessment	Item	1.00		
	<u>C26: INDUCTIONS</u>				
102	All project personnel attend Induction presentations on a fully paid time basis	Item	1.00		
	<u>C27: STRUCTURED WORKPLACE LEARNING OPPORTUNITIES THAT RESULT IN THE ATTAINMENT OF A PART OR A FULL OCCUPATIONAL QUALIFICATION</u>				
103	All associated training costs, including tools of the trade, consumables, safety equipment etc.	Item	1.00		
	<u>C28: TECHNICAL TRAINING</u>				
104	Bricklaying and Plastering	Item	1.00		
105	Painting / Plumbing	Item	1.00		
106	Carpentry	Item	1.00		
	Carried Forward			R	
	Section No. 1 Bill No. 1 Preliminaries K-26-05-01				

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Item No		Quantity	Rate	Amount
	<u>BILL 1</u> <u>EARTHWORKS (PROVISIONAL)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill. <u>NOTE:</u> This document must be read and familiarised with in conjunction with the Architects' & Engineers' drawings as annexed to this document and tenderers must make allowance in their rates for these specifications. No claims arising out of failure to do so will be entertained. These bills are measured based on the Standard System of Measuring Builder's Work 1999 Sixth Edition (Revised). No claims will be entertained for items not covered by the afore mentioned document			
	Carried Forward Section No. 2 Bill No. 1 Earthworks K-26-05-01		R	

Brought Forward The contractor is advised to be in constant communication with the quantity surveyor during the course of the tender process and/or project with regards to the following: 1. Tender drawings versus the Tender bills of quantities - Should there be a discrepancy between the tender drawings and the bills of quantities, the contractor shall notify the quantity surveyor immediately. 2. Construction drawings versus the Tender bills of quantities - Should there be a discrepancy between the construction drawings and the bills of quantities, the contractor shall notify the quantity surveyor immediately. 3. Site Instructions - The quantity surveyor together with the principal agent shall be notified immediately of any site instructions or potential costs in accordance to the contract. No claims or costs arising out of not adhering to the above will be entertained. <u>SUPPLEMENTARY PREAMBLES</u> <u>Definitions</u> The descriptions and units of quantities below are measured generally in terms to suit this project. Where these descriptions and units are in conflict with the payment provisions of SABS 1200, the descriptions and units as measured below shall apply and no claims in this regard shall be entertained. Should the tenderer have any queries, he should clarify same with either the engineer or quantity surveyor prior to submission of tender. Silence on any issue will be deemed to be acceptance thereof. <u>Nature of ground</u> A soils investigation has been carried out on site by the engineer and the report is available for inspection at the offices during normal working hours. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are seperately measured Carried Forward Section No. 2 Bill No. 1 Earthworks K-26-05-01		R	
		R	

Brought Forward <u>Blasting</u> No Guarantee is given or implied that blasting will be allowed, but should this method of removal be necessary and permissible, the contractor shall assume all responsibility and comply with all the conditions laid down in the Government and Local Government regulation and it should allow for current construction work on the neighbouring property. <u>Dump site</u> Where "remove from" or "spoil" occurs in items it shall include for all loading, offloading and carting away from the site to a suitable dumping site to be found by the contractor and the contractor shall pay all fees, etc in this regard. <u>Carting away of excavated material</u> 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. <u>Imported filling</u> Descriptions of imported filling material shall be deemed to include loading material onto trucks from borrow pits or suppliers and hauled and deposited onto the site. <u>Protection against termites and ants</u> The ground under surface beds, trenches & holes, shall be poisoned with an approved registered soil poisoning material of the chlordane or aldrin type mixed with water and applied at the rate of not less than 5 litres of solution per square metre, care being taken to apply the solution uniformly over the whole surface. The concentration of the solution shall be in accordance with the manufacturer's instructions and to the approval of the Representative / Agent. The poison and poisoning shall comply with SABS 0124. <u>Bulking</u> No allowance has been made in the measurements for bulking and no claims in this regard shall be entertained. Carried Forward Section No. 2 Bill No. 1 Earthworks K-26-05-01		R	
		R	

Brought Forward <u>Project specifications</u> Refer to the Project Specifications on the Engineer's drawings. <u>Classes of excavation</u> Classes 3.1.2(b), (d) and (e) will be deemed not to apply to this contract. All excavations will be classified by the Engineer as: <i>Soft and intermediate excavation as soft excavation</i> <i>Hard rock excavations, which will include unweathered boulders exceeding 20m³, and will also include reinforced concrete footing which, in the Engineer's opinion, cannot be removed as part of normal excavations.</i> The contractor shall notify the engineer and quantity surveyor immediately on the classification of hard rock, thereafter, all parties shall agree on the quantification method and evidence keeping of the hard rock. <u>Prescribed density tests on filling</u> Prescribed density testing is only to be done on written request from Engineer. Provision for normal density tests must be included in the filling or compaction items.		R	
Carried Forward Section No. 2 Bill No. 1 Earthworks K-26-05-01		R	

	Brought Forward			R	
	LOCATION DESCRIPTION				
	[11] - Conference Centre				
	[12] - Hotel				
	[3] - External Works				
	TEMPORARY BARRIERS, SCREENS, ETC				
	<u>Temporary barriers, screens, etc. including removal and storage for reuse (Contractor to allow for own hoarding of site camp under P&G)</u>				
	Diamond mesh fencing including two coats aluminium paint on metal stays, framing, etc				
1	1,8m High fencing formed of six straining wires passed through posts and tied to straining posts or eye bolts covered with green shade 80% density meshnet fixed to straining wires (Including excavations, backfilling, etc.)	m	448		
	11 : 0 12 : 0 3 : 448				
2	Supply & install double gate 3,000 x 1,800mm high clad with galvanised IBR	No	3		
	11 : 0 12 : 0 3 : 3				
	SITE CLEARANCE ETC				
	<u>Site clearance</u>				
3	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	2 474		
	11 : 1289 12 : 1185 3 : 0				
4	Stripping average 150mm thick layer of top soil and spoil to a dumping site to be located by the contractor.	m3	371		
	11 : 193 12 : 178 3 : 0				
	BULK EXCAVATIONS				
	Tenderers are to allow for accommodation of traffic, flagmen, etc. all in accordance to best practise and health & safety requirements. The facilities are in an existing live working environment and all care shall be taken to ensure that the site and access to the site is kept clear of rubble, safe for the client, subcontractors neighbours, etc. and this shall be adhered to for the duration of the project.				
	Carried Forward			R	
	Section No. 2				
	Bill No. 1				
	Earthworks				
	K-26-05-01				

	Brought Forward				R	
	<u>Bulk excavations in earth not exceeding 2m deep below natural, elevated or reduced ground level for</u>					
5	Cut to spoil (to a dumping site to be located by the contractor)	m3	1 113			
	11 : 580 12 : 533 3 : 0					
6	Cut to fill	m3	280			
	11 : 146 12 : 134 3 : 0					
	<u>EXCAVATIONS</u>					
	<u>Excavation in earth not exceeding 2m deep below natural, elevated or reduced ground level for</u>					
7	Trenches	m3	1 873			
	11 : 741 12 : 1132 3 : 0					
8	Trenches and holes for thickening under surface beds etc	m3	37			
	11 : 16 12 : 21 3 : 0					
9	Holes	m3	144			
	11 : 144 12 : 0 3 : 0					
	<u>EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER</u>					
	<u>Extra over trench and hole excavations in earth for excavation in:</u>					
10	Hard rock	m3	192			
	11 : 78 12 : 113 3 : 0					
11	Class A Boulder Excavation.	m3	22			
	11 : 11 12 : 10 3 : 0					
	<u>Extra over all excavations for carting away.</u>					
12	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	851			
	11 : 378 12 : 473 3 : 0					
	Carried Forward				R	
	Section No. 2 Bill No. 1 Earthworks K-26-05-01					

Brought Forward			R		
<u>Risk of collapse of excavations.</u>					
13	Sides of trench and hole excavations not exceeding 1,5m deep. 11 : 1299 12 : 1618 3 : 0	m2	2 917		
<u>Keeping excavations free of water</u>					
14	Keeping excavations free of water. 11 : 0.00 12 : 0.00 3 : 1.00	Item	1.00		
<u>De-watering of excavations</u>					
15	Allow the sum of R100,000.00 for removing seepage and other water from subterranean sources from excavations by pumping, bailing or otherwise. Accurate records of all such de watering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water.	Item	1.00	100 000.00	100 000.00
<u>FILLING ETC</u>					
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, including haulage from stock piles, compacted to 93% Mod AASHTO density.</u>					
16	Trenches, holes, etc. 11 : 69 12 : 0 3 : 0	m3	69		
<u>Imported G5 fill layer material in 150mm thick layers compacted to 95% modified AASHTO density.</u>					
17	Below and sides of Trenches, holes, etc. 11 : 209 12 : 320 3 : 0	m3	530		
18	To form platforms, etc. 11 : 504 12 : 464 3 : 0	m3	968		
<u>Imported G6 fill layer material in 150mm thick layers compacted to 95% modified AASHTO density.</u>					
19	Below ramps, steps, etc. 11 : 21 12 : 34 3 : 0	m3	55		
Carried Forward			R		
Section No. 2 Bill No. 1 Earthworks K-26-05-01					

Brought Forward			R
<u>Compaction of surfaces.</u>			
20	Compaction of ground surfaces under trenches and holes to 90% Mod AASHTO density. 11 : 756 12 : 899 3 : 0	m2	1 654
21	Rip up and scarify ground surfaces under floors for a depth of 150mm, breaking down oversize material, including taking up a maximum tolerance of 50mm and adding suitable material where necessary and carting away where necessary and compacting to 93% Mod AASHTO density. 11 : 1266 12 : 1234 3 : 0	m2	2 500
<u>Prescribed density tests on filling.</u>			
22	"Modified AASHTO Density" test. 11 : 13 12 : 14 3 : 0	No	27
<u>SOIL POISONING</u>			
<u>Soil insecticide</u>			
23	To bottoms and sides of trenches etc. 11 : 1887 12 : 2517 3 : 0	m2	4 404
24	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming. 11 : 1266 12 : 1234 3 : 0	m2	2 500
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 1			
Earthworks			
K-26-05-01			

Item No		Quantity	Rate	Amount
	<u>BILL 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill. <u>NOTE:</u> This document must be read and familiarised with in conjunction with the Architects' & Engineers' drawings as annexed to this document and tenderers must make allowance in their rates for these specifications. No claims arising out of failure to do so will be entertained. <u>SUPPLEMENTARY PREAMBLES</u> <u>Protection of works</u> Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the principal agent and that tenderers should allow in their rates for such protection. <u>Project specification</u> 5.1.1 "Only CEM I 42,5 (Portland cement) or CEM II/A-V 42,5 (Portland fly ash cement) or CEM II/A-S 42,5 (Portland slag cement) or CEM II/B-S 42,5 (Portland slag cement) according to SANS 50197-1 (SABS ENV 197-1), may be used. The cement may not consist of more than 20% siliceous fly ash or 30% granulated blast furnace slag, blended with the Portland Cement. Should the contractor wish to use any other type of cement, he shall obtain the engineer's prior written approval." No industrial waste from industrial facilities co-fired with hazardous waste may be used.			
	Carried Forward Section No. 2 Bill No. 2 Concrete, Formwork & Reinforcement K-26-05-01		R	

Brought Forward <u>Tolerance</u> Tolerance shall be based on Accuracy Degree I on all exposed concrete as described on the particular section. Degree of Accuracy II is also described separately on the particular section for all concrete requiring waterproofing. <u>Cost of tests</u> 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) Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated <u>Formwork</u> 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 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. Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described		R	
Carried Forward Section No. 2 Bill No. 2 Concrete, Formwork & Reinforcement K-26-05-01		R	

Brought Forward 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" <u>Engineer's Specification</u> These bills of quantities are to be read in conjunction with the Engineer's specifications - See engineers drawings and project specification attached to this document and/or as specified on the relevant items.		R	
Carried Forward Section No. 2 Bill No. 2 Concrete, Formwork & Reinforcement K-26-05-01		R	

	Brought Forward			R	
	LOCATION DESCRIPTION				
	[11] - Conference Centre				
	[12] - Hotel				
	[3] - External Works				
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>15MPa/20mm concrete</u>				
1	Surface blinding under footings and bases 11 : 23 12 : 22 3 : 0	m3	46		
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>20MPa/19mm concrete</u>				
2	Aprons cast in panels on waterproofing and laid to falls 11 : 15 12 : 20 3 : 0	m3	35		
	<u>25MPa/19mm concrete</u>				
3	Strip footings 11 : 88 12 : 135 3 : 0	m3	223		
4	Bases 11 : 59 12 : 0 3 : 0	m3	59		
	<u>REINFORCED CONCRETE</u>				
	<u>25MPa/19mm concrete</u>				
5	Surface beds and thickenings cast in panels on waterproofing 11 : 147 12 : 135 3 : 0	m3	282		
	<u>30MPa/19mm concrete</u>				
6	Slabs including beams, inverted beams. 11 : 31 12 : 57 3 : 0	m3	88		
7	Stairs, including landings, beams and inverted beams 11 : 4 12 : 8 3 : 0	m3	12		
	Carried Forward			R	
	Section No. 2 Bill No. 2 Concrete, Formwork & Reinforcement K-26-05-01				

Brought Forward			R
8	Isolated beams 11 : 13 12 : 12 3 : 0 <u>30MPa/19mm concrete</u>	m3	25
9	Columns 11 : 2 12 : 0 3 : 0 <u>TEST CUBES</u>	m3	2
10	Allow for preparing a set of three concrete strenght test cubes, each size 150 x 150 x 150mm, sending them to an approved independent testing laboratory for testing and paying all charges in connection therewith. (Provisional) 11 : 34 12 : 34 3 : 0 <u>CONCRETE SUNDRIES</u> <u>Cast in galvanised angles to steps of stairs</u>	No	67
11	50 x 50 x 5mm Angle with 50 x 3mm thick fishtail lugs 75mm long at 300mm centres (Cast in concrete and flush with screed finish) 11 : 48 12 : 96 3 : 0 <u>Finishing top surfaces of concrete smooth with a power float</u>	m	144
12	Surface beds, etc 11 : 1121 12 : 1030 3 : 0	m2	2 151
13	Slabs, etc 11 : 96 12 : 162 3 : 0 <u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u>	m2	258
14	Aprons to falls, etc 11 : 145 12 : 204 3 : 0	m2	349
15	Tops of treads of stairs including reedings 11 : 13 12 : 27 3 : 0 <u>Steel float</u>	m2	40
16	Landings of stairs 11 : 4 12 : 8 3 : 0	m2	12
Carried Forward			R
Section No. 2 Bill No. 2 Concrete, Formwork & Reinforcement K-26-05-01			

Brought Forward			R	
17	Tops of upstand beams, etc. 11 : 14 12 : 33 3 : 0	m2	47	
18	Tops of isolated beams, etc. 11 : 35 12 : 33 3 : 0	m2	68	
<u>Grooves, channels, mortices, sinkings, etc in concrete</u>				
19	40 x 25mm V-shaped drip groove to the bottom of concrete slabs including a 25 x 25mm chamfered edge drip detail on formwork (degree of accuracy II slabs) necessary to form grooves (refer to the engineer's typical drip detail) 11 : 62 12 : 144 3 : 0	m	206	
<u>Holding down bolts</u>				
20	Take delivery of a set of four holding down bolts complete with template (supplied by steel sub-contractor) and cast in exact position in the top of concrete including maintaining in position during concreting 11 : 96 12 : 50 3 : 0	No	146	
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
<u>Rough formwork to sides of aprons</u>				
21	Edges, risers, ends and reveals not exceeding 300mm high or wide 11 : 145 12 : 204 3 : 0	m	349	
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>				
<u>Smooth formwork not exceeding 3.5m high above bearing level, to:</u>				
22	Edges, risers, ends and reveals not exceeding 300mm high or wide to steps of stairs 11 : 48 12 : 96 3 : 0	m	144	
23	Sides of square columns 11 : 25 12 : 0 3 : 0	m2	25	
Carried Forward			R	
Section No. 2 Bill No. 2 Concrete, Formwork & Reinforcement K-26-05-01				

Brought Forward			R	
24	Soffits of landings not exceeding 250mm thick 11 : 0.0 12 : 0.0 3 : 0.0	m2		
25	Raking soffits of stairs 11 : 0.0 12 : 0.0 3 : 0.0	m2		
26	Sloping and stepped outer edges of stairs 400mm high extreme 11 : 1 12 : 3 3 : 0	m2	4	
<u>Smooth formwork exceeding 3.5m and not exceeding 5m high above bearing level, to:</u>				
27	Edges, risers, ends and reveals not exceeding 300mm high or wide 11 : 116 12 : 144 3 : 0	m	260	
28	Sides and soffits of isolated beams 11 : 147 12 : 140 3 : 0	m2	287	
29	Sides and soffits of beams 11 : 48 12 : 111 3 : 0	m2	159	
30	Sides of inverted beams (above concrete) 11 : 37 12 : 86 3 : 0	m2	124	
31	Soffits of slabs not exceeding 250mm thick 11 : 96 12 : 162 3 : 0	m2	258	
<u>SUNDRY FORMWORK</u>				
<u>Boxing in smooth formwork to form:</u>				
32	25 x 25mm Vertical chamfer at corners. 11 : 84 12 : 0 3 : 0	m	84	
33	25 x 25mm Horizontal chamfer at corners. 11 : 732 12 : 864 3 : 0	m	1 596	
<u>MOVEMENT JOINTS ETC.</u>				
<u>Expansion joints with Jointex between vertical concrete surfaces.</u>				
34	20mm Joints not exceeding 300mm high or wide. 11 : 56 12 : 68 3 : 0	m	124	
Carried Forward			R	
Section No. 2 Bill No. 2 Concrete, Formwork & Reinforcement K-26-05-01				

Brought Forward				R
<u>Expansion joints with Jointex between vertical concrete and brickwork surfaces.</u>				
35	15mm Joints not exceeding 300mm high or wide. 11 : 420 12 : 642 3 : 0	m	1 062	
<u>Saw cut joints</u>				
36	3mm Wide x 35mm deep initial saw cut joints on top of concrete including ream cutting 6mm wide and 10mm deep after 7 days and a 6x10mm polyurethane sealer on an approved packer (Refer to the engineers' drawings for more details) 11 : 312 12 : 256 3 : 0	m	568	
<u>REINFORCEMENT (PROVISIONAL)</u>				
<u>Steel reinforcement to structural concrete work</u>				
37	Steel reinforcing bars in foundations 11 : 11.75 12 : 10.79 3 : 0.00	t	22.53	
38	Steel reinforcing bars in structural concrete 11 : 6.35 12 : 9.37 3 : 0.00	t	15.73	
<u>High tensile steel dowel bars.</u>				
39	16mm Diameter mild steel Y bars on stools to thickenings 11 : 0.08 12 : 0.08 3 : 0.00	t	0.16	
<u>Fabric reinforcement</u>				
40	Type 193 fabric reinforcement in concrete surface beds, etc. 11 : 1121 12 : 1030 3 : 0	m2	2 151	
41	Type 193 fabric reinforcement in concrete aprons, etc. 11 : 145 12 : 204 3 : 0	m2	349	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
Bill No. 2				
Concrete, Formwork & Reinforcement				
K-26-05-01				

Item No		Quantity	Rate	Amount
	<u>BILL 3</u> <u>PRECAST CONCRETE (PROVISIONAL)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill. <u>NOTE:</u> This document must be read and familiarised with in conjunction with the Architects' & Engineers' drawings as annexed to this document and tenderers must make allowance in their rates for these specifications. No claims arising out of failure to do so will be entertained. <u>SUPPLEMENTARY PREAMBLES</u> <u>Sizes</u> Blocks, sills, etc. measured linear shall be made in suitable lengths. Large size setting out drawings shall be prepared where necessary and submitted to the principal agent for approval before moulds are made <u>General</u> Where kerbstones, blocks, etc. are laid in ground descriptions shall be deemed to include necessary excavation, filling in and ramming <u>Protection of works</u> Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the principal agent and that tenderers should allow in their rates for such protection.			
	Carried Forward Section No. 2 Bill No. 3 Precast Concrete K-26-05-01		R	

Brought Forward <u>Samples</u> Samples of all precast concrete works shall be priced, delivered to site and provided to the principal agent for approval. <u>Storage of materials on site</u> <u>Mortar</u> The mortar materials shall be mixed dry until a uniform colour is attained. Water shall then be added and the mixture turned over until the ingredients are thoroughly incorporated. The mortar shall be produced in such quantities that no setting occurs before use. (Usually less than 2 hours). When cement mortar is mixed old mortar that has already set shall be removed from the mixer or the platform as such mortar may not be incorporated in a new batch. No water shall be added afterwards to improve workability. <u>Accuracy in building</u> Unless specified otherwise accuracy grade II shall apply as set out in SANS 10155.		R	
Carried Forward Section No. 2 Bill No. 3 Precast Concrete K-26-05-01		R	

Brought Forward				R
LOCATION DESCRIPTION				
[11] - Conference Centre				
[12] - Hotel				
[3] - External Works				
<u>PRECAST CONCRETE COPINGS, ETC</u>				
<u>Precast concrete finished smooth on exposed surfaces, bedded in class II mortar, including jointing, sealing, pointing, etc.</u>				
1	Coping type 0084 "Modcon or similar approved" 305 x 50mm thick overall coping, with two drip grooves on the bottom along both edges and joint sealer on bottom sides	m	148	
	11 : 148 12 : 0 3 : 0			
Carried Forward to Summary of Section No. 2				R
Section No. 2				
Bill No. 3				
Precast Concrete				
K-26-05-01				

Item No		Quantity	Rate	Amount
	<u>BILL 4</u> <u>MASONRY (PROVISIONAL)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill. <u>NOTE:</u> This document must be read and familiarised with in conjunction with the Architects' & Engineers' drawings as annexed to this document and tenderers must make allowance in their rates for these specifications. No claims arising out of failure to do so will be entertained. <u>SUPPLEMENTARY PREAMBLES</u> <u>Protection of works</u> Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the principal agent and that tenderers should allow in their rates for such protection. <u>Joints</u> A 10mm clean joint must be left between the top surfaces of internal brick walls and the soffits of concrete slabs. Care must be taken to assure that no mortar, pieces of brick or any other objects exist in the joint <u>Wire Ties</u> Descriptions of brickwork shall be deemed to include wire ties			
	Carried Forward Section No. 2 Bill No. 4 Masonry K-26-05-01		R	

Brought Forward <u>Face brickwork</u> Bricks shall be ordered timeously to obtain uniformity in size and colour. Descriptions of face brickwork shall be deemed to include pointing on all exposed surfaces. <u>Samples</u> Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site. <u>Storage of materials on site</u> Structural units delivered to the site shall be carefully unloaded by hand or crane, and placed on prepared areas free from clinker, ash or sulphate-bearing soils and in separate stacks according to strength. The stacks shall be protected from rain and arranged to allow free circulation of air. Cement shall be stored off the ground in a dry weatherproof structure to facilitate inspection and to permit the use of materials in the order of delivery. Sand shall be stored separately according to type and in such a way that it will not become contaminated. <u>Treatment of masonry units</u> Burnt clay units with an initial water absorption rate that exceeds 1,8 kg/m² min shall be wetted prior to laying to reduce the rate to between 0,7 and 1,8 kg/m² min. <u>Cleaning of facebrick</u> Cleaning of all face brick to be done with sugar soap. Remove surface contaminants using sugar soap solution - 500 g sugar soap powder dissolved in 5 litres water, or sugar soap liquid. All in strict accordance to manufacturers specifications. Washing of walls to be from bottom to top and to be done only with non-abrasive cloths. For stubborn contaminants use hot water in the above mix and a bristle broom or scrubbing brush. Rinse with tap water to remove all traces of sugar soap and allow to dry.		R	
Carried Forward Section No. 2 Bill No. 4 Masonry K-26-05-01		R	

Brought Forward <u>Mortar</u> The mortar materials shall be mixed dry until a uniform colour is attained. Water shall then be added and the mixture turned over until the ingredients are thoroughly incorporated. The mortar shall be produced in such quantities that no setting occurs before use. (Usually less than 2 hours). When cement mortar is mixed old mortar that has already set shall be removed from the mixer or the platform as such mortar may not be incorporated in a new batch. No water shall be added afterwards to improve workability. <u>Accuracy in building</u> Unless specified otherwise accuracy grade II shall apply as set out in SANS 10155.		R	
Carried Forward Section No. 2 Bill No. 4 Masonry K-26-05-01		R	

	Brought Forward			R	
	LOCATION DESCRIPTION				
	[11] - Conference Centre				
	[12] - Hotel				
	[3] - External Works				
	FOUNDATIONS				
	Brickwork of NFX bricks or equally approved (14 MPa nominal compressive strength) in class II mortar				
1	NFX Class II mortar: One and a half brick walls 11 : 214 12 : 327 3 : 0	m2	542		
	FACE BRICKWORK IN FOUNDATIONS				
	Facebricks prime cost of R 8,000.00 per thousand bricks excluding VAT delivered to site, with nominal strength of 20-30MPa manufactured in accordance with SANS 227, bedded and jointed in Class I mortar and pointed with square recessed horizontal and vertical joints.				
2	Extra over brickwork for face brickwork in stretcher bond 11 : 214 12 : 327 3 : 0	m2	542		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement in foundations				
3	150mm Wide reinforcement built in horizontally 11 : 630 12 : 963 3 : 0	m	1 592		
	SUPERSTRUCTURE WORKS				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) perforated plaster brick size 222x73x106mm in class II mortar manufactured in accordance with SANS 227:2007				
4	NFX Class II mortar: Half brick walls 11 : 168 12 : 287 3 : 0	m2	455		
5	NFX Class II mortar: Half brick walls in beam filling 11 : 46 12 : 60 3 : 0	m2	106		
	Carried Forward			R	
	Section No. 2 Bill No. 4 Masonry K-26-05-01				

Brought Forward			R	
6	NFX Class II mortar: One brick walls 11 : 1875 12 : 2280 3 : 0	m2	4 155	
7	NFX Class II mortar: Mass brickwork 11 : 8 12 : 0 3 : 0	m3	8	
<u>BRICKWORK SUNDRIES</u>				
<u>Brickwork reinforcement</u>				
8	75mm Wide reinforcement built in horizontally 11 : 494 12 : 844 3 : 0	m	1 338	
9	150mm Wide reinforcement built in horizontally 11 : 5601 12 : 6703 3 : 0	m	12 304	
<u>Galvanised hoop iron cramps, ties, etc.</u>				
10	30 x 3mm Tie bond 400mm long galvanised mild steel ties with one end shot pinned to concrete and other end built into brickwork. Ties to be fitted to concrete with 2 Hilti shot studs each. 11 : 232 12 : 250 3 : 0	No	482	
<u>Turning pieces to lintels, etc.</u>				
11	230mm Wide turning pieces 11 : 6 12 : 0 3 : 0	m	6	
<u>PRECAST CONCRETE</u>				
<u>Prestressed fabricated concrete lintels including necessary temporary supports</u>				
12	110 x 75mm Lintels in lengths not exceeding 3m 11 : 150 12 : 371 3 : 0	m	520	
13	110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m 11 : 151 12 : 55 3 : 0	m	206	
14	110 x 75mm Lintels in lengths exceeding 4,5m and not exceeding 6m 11 : 107 12 : 114 3 : 0	m	221	
15	110 x 75mm Lintels in lengths exceeding 6m and not exceeding 7,5m 11 : 29 12 : 0 3 : 0	m	29	
Carried Forward			R	
Section No. 2 Bill No. 4 Masonry K-26-05-01				

Brought Forward			R
<u>FACE BRICKWORK</u>			
<u>Facebricks prime cost of R 8,000.00 per thousand bricks excluding VAT delivered to site, with nominal strength of 20-30MPa manufactured in accordance with SANS 227, bedded and jointed in Class I mortar and pointed with square recessed horizontal and vertical joints.</u>			
16	Extra over brickwork for face brickwork in stretcher bond 11 : 228 12 : 240 3 : 0	m2	468
17	Extra over brickwork for brick-on-edge header course lintel. 11 : 3 12 : 0 3 : 0	m	3
18	230mm Wide sill set sloping and slightly projecting 11 : 3 12 : 0 3 : 0	m	3
<u>STONE CLADDING, ETC</u>			
<u>Stone cladding wall linings (irregular sizes approximately 610 x 1200mm "Moca Cream Stone" cladding) mechanically fixed, including necessary Class I mortar, metal framing, cramps, dowels, ties, etc. as well as mitred ends where necessary</u>			
19	30mm Thick in rectangular panels exceeding 0.5 and not exceeding 1m2 on face 11 : 35 12 : 0 3 : 0	m2	35
20	Coping, 230mm wide 11 : 5 12 : 0 3 : 0	m	5
21	Wall edge, 135mm wide 11 : 29 12 : 0 3 : 0	m	29
22	Polished edge 30mm Wide 11 : 29 12 : 0 3 : 0	m	29
Carried Forward to Summary of Section No. 2			R
Section No. 2 Bill No. 4 Masonry K-26-05-01			

Item No		Quantity	Rate	Amount
	<u>BILL 5</u> <u>WATERPROOFING (PROVISIONAL)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill. <u>NOTE:</u> This document must be read and familiarised with in conjunction with the Architects' & Engineers' drawings as annexed to this document and tenderers must make allowance in their rates for these specifications. No claims arising out of failure to do so will be entertained. <u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect. <u>Waterproofing</u> Waterproofing of roofs, basements, etc. shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets, etc, with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs <u>Protection of works</u> Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the principal agent and that tenderers should allow in their rates for such protection.			
	Carried Forward Section No. 2 Bill No. 5 Waterproofing K-26-05-01		R	

Brought Forward <u>DAMP-PROOFING OF WALLS AND FLOORS</u> Waterproofing to roofs shall be laid to even falls to outlets, etc., with necessary ridges, hips and valleys Descriptions of sheet or membrane waterproofing shall be deemed to include labour to turn-ups and turn-downs <u>Guarantee</u> Waterproofing of roofs, basements, etc. shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets, etc, with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs. <u>Joint sealants</u> The colour of joint sealants in brickwork or concrete shall match the colour of the adjacent brick or concrete finish		R	
Carried Forward Section No. 2 Bill No. 5 Waterproofing K-26-05-01		R	

	Brought Forward			R	
	LOCATION DESCRIPTION				
	[11] - Conference Centre				
	[12] - Hotel				
	[3] - External Works				
	DAMPPROOFING OF WALLS AND FLOORS				
	<u>One layer of 375 micron "Gundle Plastall Brikgrip DPC" embossed damp proof course</u>				
1	Under one and a half brick walls 11 : 147 12 : 225 3 : 0	m2	372		
2	Under half brick walls 11 : 6 12 : 10 3 : 0	m2	16		
3	Under one brick walls 11 : 35 12 : 46 3 : 0	m2	81		
4	Under window sills (dpc to be turned up at the end and folded back to stick) 11 : 59 12 : 74 3 : 0	m2	133		
	<u>One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape".</u>				
5	Under surface beds 11 : 1121 12 : 1030 3 : 0	m2	2 151		
6	Under aprons 11 : 145 12 : 204 3 : 0	m2	349		
	<u>WATERPROOFING TO RETAINING WALLS, DOOR THRESHOLDS, ETC.</u>				
	<u>Design, supply and install "Aquaflex" or equivalent Roof premium planter box waterproofing (MAPEI SA) or equally approved</u>				
7	On tops and sides of beams, underside of copings, etc. 11 : 67 12 : 0 3 : 0	m2	67		
8	On door thresholds, etc. 11 : 5 12 : 1 3 : 0	m2	7		
	<u>WATERPROOFING TO ROOFS, ETC.</u>				
	Carried Forward			R	
	Section No. 2 Bill No. 5 Waterproofing K-26-05-01				

	Brought Forward			R	
	<u>Design (Propose), supply and install Torch on waterproofing system. All surfaces to be clean dry, sound and free of oils and laitance. Apply one layer abe.® Unigum MS or equivalent dual reinforced mineral surface waterproofing membrane, fully bonded by means of "torch on fusion" to concrete, screed and brickwork surfaces where applicable, with 100mm side laps and 150mm end laps, all in accordance with manufacturer's 'Technical Specifications and Applications Manual'</u>				
	<u>Roofs</u>				
9	On roofs to falls at minimum 1:100 11 : 96 12 : 162 3 : 0	m2	258		
10	Extra over additional membrane at 100mm diameter outlet 11 : 8 12 : 16 3 : 0	No	24		
	<u>25mm crushed stone ballast 50mm thick</u>				
	<u>Roofs</u>				
11	On roofs to falls at minimum 1:100 11 : 96 12 : 162 3 : 0	m2	258		
	<u>Isoboard® or equivalent high density 32-36kg/m³ rigid extruded polystyrene 100% closed cell insulation boarding 80mm thick x 600mm wide with tongue and groove joints laid tightly butted on waterproofing membrane, secured under 20mm nominal gravel</u>				
12	On flat roofs 11 : 96 12 : 162 3 : 0	m2	258		
	<u>PROTECTIVE ROOFING PAINT</u>				
	<u>Two coats "Silvakote" bituminous aluminium paint.</u>				
13	On waterproofing membranes 11 : 96 12 : 162 3 : 0	m2	258		
	<u>WATERPROOFING TO SHOWERS</u>				
	Carried Forward			R	
	Section No. 2 Bill No. 5 Waterproofing K-26-05-01				

	Brought Forward			R	
	<u>Design, supply and install "Cementitious flexible waterproofing slurry" lanko Hydroflex embedded or equally approved, in a polyester cloth where necessary</u>				
14	On floors around slop hoppers 11 : 1 12 : 0 3 : 0	m2	1		
15	On floors around showers 11 : 2 12 : 30 3 : 0	m2	32		
16	On shower walls 11 : 19 12 : 279 3 : 0	m2	298		
	<u>PROTECTION BOARDS</u>				
17	10mm Thick softboard protection board placed between waterproofing (elsewhere) and screeds (elsewhere) 11 : 96 12 : 162 3 : 0	m2	258		
	<u>JOINT SEALANTS ETC.</u>				
	<u>"Polyurethane" Sealant UV protected to manufacturers specification.</u>				
18	20mm "Polyurethane" Sealant in horizontal wall joints (painted). 11 : 152 12 : 200 3 : 0	m	352		
	Carried Forward to Summary of Section No. 2			R	
	Section No. 2				
	Bill No. 5				
	Waterproofing				
	K-26-05-01				

Item No		Quantity	Rate	Amount
	<u>BILL 6</u> <u>ROOF COVERINGS, ETC (PROVISIONAL)</u> <u>PREAMBLES</u> The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained <u>NOTE:</u> This document must be read and familiarised with in conjunction with the Architects drawings as annexed to this document and tenderers must make allowance in their rates for these specifications. No claims arising out of failure to do so will be entertained. <u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect. <u>Guarantee</u> A written and approved five-year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer Global Roofing Solutions. Manufacturer: Global Roofing Solutions Tel. (011) 898-2900 or equally approved supplier <u>Cleaning of finishes</u> All finishes shall be thoroughly cleaned down on completion. No additional costs for cleaning will be entertained			
	Carried Forward Section No. 2 Bill No. 6 Roof Covering K-26-05-01		R	

Brought Forward <u>Cutting & wastage</u> All straight and raking cutting and waste must be allowed for in the rates <u>PROFILE SHEETING AND ACCESSORIES</u> <u>Sheeting & Vertical cladding:</u> 0.58mm industrially coated on both sides Brownbuilt Z200 interlocking concealed-fix Brownbuilt profile Chromadek roofing sheets fixed on steel or timber purlins where applicable as per manufacturer's specifications using KL700 plus clips, long self drilling wafer head PH2 screws, type 17 drill point fasteners. Colour to Architect specifications. <u>0.58mm Thick flashings:</u> Flashings shall be 0.58mm Kliplock side wall and counter flashings to match roof sheeting <u>Erection:</u> Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, shall be replaced. <u>Safety:</u> The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity. <u>Handling and storing:</u> The contractor shall ensure that all materials used on site for cladding, etc. are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction. Carried Forward Section No. 2 Bill No. 6 Roof Covering K-26-05-01		R	
		R	

Brought Forward			R
LOCATION DESCRIPTION			
[11] - Conference Centre			
[12] - Hotel			
[3] - External Works			
ROOFING			
<u>Brownbuilt Z200 roll-formed in continuous lengths and as described on the profile sheeting and accessories, in strict accordance with manufacturer's specifications including all necessary sealer strips on overlaps, etc. by an approved contractor.</u>			
1	Roof covering with pitch not exceeding 25 degrees 11 : 488 12 : 1184 3 : 0	m2	1 673
2	Roof covering with pitch exceeding 25 degrees (30 degrees) 11 : 0.0 12 : 0.0 3 : 0.0	m2	
3	Roof covering with pitch exceeding 25 degrees (33 degrees) 11 : 510 12 : 0 3 : 0	m2	510
<u>RAINWATER DISPOSAL</u>			
<u>3mm Thick galvanised mild steel gutters</u>			
4	150 x 100mm Rainwater pipes 11 : 108 12 : 146 3 : 0	m	254
5	105 x 105mm Rainwater downpipes 11 : 134 12 : 192 3 : 0	m	326
6	Extra over for 150 x 100mm stop ends 11 : 8 12 : 4 3 : 0	No	12
7	Extra over 105 x 105mm wide rainwater pipe for eaves offset 11 : 28 12 : 40 3 : 0	No	68
8	Extra over 150mm eaves gutter for outlet for 105 x 105mm pipe 11 : 28 12 : 40 3 : 0	No	68
9	Extra over for 105 x 105mm shoe 11 : 28 12 : 40 3 : 0	No	68
Carried Forward			R
Section No. 2 Bill No. 6 Roof Covering K-26-05-01			

Brought Forward			R
<u>FLASHINGS, ETC.</u>			
<u>0.58mm thick "Klip - Lok" flashings, fixed in strict accordance with the manufacturer's instructions, including any necessary sealer strips on overlaps, closure pieces, etc.</u>			
10	Ridge Cap 550mm girth 3 times bent and notched on site to suit roof profile.	m	47
	11 : 47 12 : 0 3 : 0		
11	Apex Flash 550mm girth 3 times bent and notched on site to suit roof profile.	m	177
	11 : 31 12 : 146 3 : 0		
12	Headwall Flash 375mm girth 2 times bent and notched on site to suit roof profile.	m	5
	11 : 5 12 : 0 3 : 0		
13	Gable Trim (Barge Flash) 580mm girth 3 times bent.	m	128
	11 : 66 12 : 62 3 : 0		
14	Valley Gutter 616mm girth 4 times bent.	m	12
	11 : 12 12 : 0 3 : 0		
15	Gutter flashing - 500mm girth	m	254
	11 : 108 12 : 146 3 : 0		
<u>INSULATION</u>			
<u>Bubble foil (Code 2906 "Alububble" or equally approved insulation)</u>			
16	Insulation sheeting laid taut over purlins on straining wires (at approximately 600m centres) and fixed concurrent with roof covering	m2	2 183
	11 : 999 12 : 1184 3 : 0		
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 6			
Roof Covering			
K-26-05-01			

Item No		Quantity	Rate	Amount
	<u>BILL 7</u> <u>CARPENTRY AND JOINERY (PROVISIONAL)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill. <u>NOTE:</u> This document must be read and familiarised with in conjunction with the Architects drawings as annexed to this document and tenderers must make allowance in their rates for these specifications. No claims arising out of failure to do so will be entertained. <u>SUPPLEMENTARY PREAMBLES</u> <u>Particle board</u> Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type <u>Joinery</u> Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc. Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes <u>Protection of works</u> Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the principal agent and that tenderers should allow in their rates for such protection.			
	Carried Forward Section No. 2 Bill No. 7 Carpentry & Joinery K-26-05-01		R	

Brought Forward <u>Fixing:</u> Items described as nailed or plugged shall be deemed to be fixed to brickwork or concrete. Where the method of fixing is not described, descriptions shall be deemed to include fixing of timber to timber in a method approved by the architect. Descriptions of hardwood joinery shall be deemed to include pelleting of holes for bolts <u>Doors</u> Flush doors with rebated meeting stiles to have hard wood edge strips to meeting stiles not less than 19mm thick Hardboard and veneer coverings to doors will be suitable to receive paint or varnish All doors to be equivalent to samples to be equivalent to samples to be submitted to the architect for approval		R	
Carried Forward Section No. 2 Bill No. 7 Carpentry & Joinery K-26-05-01		R	

Brought Forward			R
LOCATION DESCRIPTION			
[11] - Conference Centre			
[12] - Hotel			
[3] - External Works			
DOORS, ETC.			
<u>40mm Thick Solid Core timber doors as per "AMDOOR" or similar approved, hung to steel frames with 3.2mm masonite covering on inside and horizontal grooved timber veneer on both sides (Complete and including screw fixing 2 pair of standard butt hinges per door leaf - hinges measured elsewhere).</u>			
1	40mm Door 0,813 x 2,100m high 11 : 21 12 : 0 3 : 0	No	21
2	40mm Door 1,000 x 2,100m high 11 : 2 12 : 0 3 : 0	No	2
3	44mm Door 0,813 x 2,125m high 11 : 0 12 : 54 3 : 0	No	54
4	44mm Door 1,000 x 2,125m high 11 : 0 12 : 8 3 : 0	No	8
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 7			
Carpentry & Joinery			
K-26-05-01			

Item No		Quantity	Rate	Amount
	<u>BILL 8</u> <u>CEILINGS & BULKHEADS</u> <u>PREAMBLES</u> The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained <u>NOTE:</u> This document must be read and familiarised with in conjunction with the Architects drawings as annexed to this document and tenderers must make allowance in their rates for these specifications. No claims arising out of failure to do so will be entertained. <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary suspended ceilings</u> Hangers, suspension grids, "lay-in" panels, etc. are to be in accordance with the manufacturers' recommendations Electrical light fittings, diffusers, panels, etc. are generally "lay-in" units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof) <u>Flush plastered Rhinoboard suspended ceilings</u> Ceilings shall comprise 9.5mm &/or 12mm rhinoboard plasterboard boards screwed to and including screw-up suspension grid consisting of main tees at 1 200mm centres and galvanised steel capped cross tees at 400mm centres and with tape fixed over joints and the whole finished with gypsum plaster trowelled to a smooth polished surface Carried Forward Section No. 2 Bill No. 8 Ceilings and Partitions K-26-05-01			
			R	

Brought Forward The grid shall be suspended by means of galvanised steel L-section hangers at suitable centres, securely shot-pinned or screwed to concrete, steel or wood <u>Finish</u> Unless otherwise stated, all surfaces shall be skimmed and covered with Gyproc Rhinolite Multi-purpose (Phosphogypsum locally manufactured) <u>Fixing</u> Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere <u>Ceilings</u> Unless otherwise described ceilings shall be deemed to be horizontal <u>Bulkheads</u> Bulkheads are those areas of the ceilings which occur at a level or plane differing from the general ceiling level or plane. Their function is to conceal services, or merely to create an architectural feature. Bulkheads will only be measured as such when they conform with the above description and when the horizontal or vertical dimensions do not exceed 2 000mm. Where these dimensions exceed 2 000mm the horizontal or vertical ceilings are included in the general ceiling measurements. Unless otherwise described bulkheads shall be deemed to be horizontal along the length <u>Openings</u> Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc. are to include for any necessary additional support, trimming around, etc.		R	
Carried Forward Section No. 2 Bill No. 8 Ceilings and Partitions K-26-05-01		R	

Brought Forward <u>NOTES</u> Tenderers are to allow for special scaffolding in their rates as no additional claim will be entertained in this regard Drawings showing the services in the ceiling voids are available for inspection by appointment at the offices of the various consultants The contractor is to ensure that no tees and cross tees are suspended from any services such as electrical cable trays, etc. The contractor must supply the architect with suspended rods for approval before installation Prices shall include for all holes, notching, etc. All tenderers must make allowance within the rates for any sub-frames that might be required in the design, as no additional claims in this regard will be entertained Carried Forward Section No. 2 Bill No. 8 Ceilings and Partitions K-26-05-01		R	
		R	

Brought Forward			R
LOCATION DESCRIPTION			
[11] - Conference Centre			
[12] - Hotel			
[3] - External Works			
SUSPENDED CEILINGS			
<u>Ceilings to be 12mm thick NUTEC or equivalent ceiling boards fixed on hot dipped galvanised steel suspension fittings, screw-up tee grid including 25x25mm hangers, 25mm rhino board sharp point screws @ 150mm centres, etc., with self adhesive glass fire tape & quick setting joint filler and the whole finished with 3mm to 6mm lightweight retarded semi hydrate gypsum "Rhinolite" plaster trowelled to a smooth polished surface</u>			
1	Ceilings suspended exceeding 1m and not exceeding 2m below steel trusses/ purlins / concrete soffits	m2	118
	11 : 118 12 : 0 3 : 0		
2	Extra over ceilings for 600mm x 600mm "pelican" flush line access panel bottom hung, powder coated	No	35
	11 : 3 12 : 32 3 : 0		
<u>80mm Thick Pre finished Suspended LAMBDA BOARD CEILING or equivalent of size 1195 x 595mm panels suspended on grid system installed as per supplier's recommendations.</u>			
3	Ceilings suspend not exceeding 2m below steel trusses/ purlins / concrete soffits	m2	967
	11 : 423 12 : 544 3 : 0		
4	Sloping Ceilings suspended not exceeding 1m below steel trusses/ purlins / concrete soffits	m2	431
	11 : 279 12 : 152 3 : 0		
<u>SM25 recessed shadowline 'White', plugged and screwed at centres not exceeding 200mm</u>			
5	SM25 Shadow line	m	1 798
	11 : 694 12 : 1104 3 : 0		
<u>PARTITIONS, ETC.</u>			
Carried Forward			R
Section No. 2			
Bill No. 8			
Ceilings and Partitions			
K-26-05-01			

		Brought Forward			R	
		Note: <u>Partition heights indicated below are to extend the ceiling soffit by approximately 200mm above finished ceiling height. Tenderers are required to allow for this additional penetration on their rates</u> <u>"GypRoc Drywall" or equivalent partition systems:</u> "GypRoc or equivalent Fire Stop Drywall" partitioning shall comprise 63.5mm steel studding or approved thickness stud, formed of top and bottom tracks with vertical studs at maximum 400mm centres, friction fitted or pop-riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc. and covered as described with wallboard screwed to studding with "Drywall" screws at maximum 220mm centres. Boards are to be butt jointed and finished with "Rhino" tape and "Readymix D" jointing compound all in accordance with the manufacturer's instructions. All board surfaces (Both sides) shall be skimmed and covered with Gyproc Rhinolute Multi-purpose (Phosphogypsum locally manufactured) or equivalent. Intersections and abutments are measured separately and descriptions shall be deemed to include any additional studs, corner beads, jointing compound, tape, etc. <u>Partition type "FR-60-GYP-MET" refer to the specifications from the architect. Wall type on steel stud partitions clad with one layer of 15mm "Gyproc Fire Stop Board" (One board per side) including a 63mm thick Isover Cavitybatt of density 14kg/m3 into the cavity with joints tightly butted leaving no gaps</u> <u>PARTITIONS 3.4m HIGH at highest point</u>				
6	Partitioning 90mm wide with bottom track plugged and top track fixed to soffits of ceilings including extension beyond the soffits of ceilings 11 : 12 12 : 0 3 : 0	m	12			
	<u>Extra over steel studs partitions</u>					
7	<u>0.6mm Galvanised integrated metal sheet installed inside the drywall wall system</u> 11 : 41 12 : 0 3 : 0	m2	41			
		Carried Forward			R	
	Section No. 2 Bill No. 8 Ceilings and Partitions K-26-05-01					

	Brought Forward			R	
8	For vertical abutment 11 : 2 12 : 0 3 : 0	No	2		
	<u>INSULATION</u>				
9	Lay 100mm Aerolite or equivalent insulation (Non-combustible and Class 1 fire index rating) on the ceiling ensuring that it fits tightly between the tie beams. Aerolite should be cut 50mm more than distance between the tie beams. Cut Aerolite or equivalent out around down lights. Cut Aerolite or equivalent out around trap doors. Fix the cut section to the back of the trap door using a good quality contact adhesive. Wrap Aerolite or equivalent around cold and hot water pipes ensuring that there is 10mm overlap. Secure the Aerolite or equivalent using a cable tie at 300mm centres. 11 : 820 12 : 696 3 : 0	m2	1 516		
Carried Forward to Summary of Section No. 2					
Section No. 2					
Bill No. 8					
Ceilings and Partitions					
K-26-05-01					

Item No		Quantity	Rate	Amount
	<u>BILL 9</u> <u>IRONMONGERY (PROVISIONAL)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill. <u>NOTE:</u> This document must be read and familiarised with in conjunction with the Architects drawings as annexed to this document and tenderers must make allowance in their rates for these specifications. No claims arising out of failure to do so will be entertained. <u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect. <u>Protection of works</u> Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the principal agent and that tenderers should allow in their rates for such protection. <u>Finishes to ironmongery</u> Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered : CH Chromium plated : SC Satin chromium plated : SE Silver enamelled : GE Grey enamelled : AS Anodised silver : AB Anodised bronze : AG Anodised gold : ABL Anodised black : PB Polished brass : PL Polished and lacquered : PT Epoxy coated.			
	Carried Forward Section No. 2 Bill No. 9 Ironmongery K-26-05-01		R	

	Brought Forward		R	
Section No. 2 Bill No. 9 Ironmongery K-26-05-01	Carried Forward		R	

Brought Forward			R
LOCATION DESCRIPTION			
[11] - Conference Centre			
[12] - Hotel			
[3] - External Works			
<u>HINGES, BOLTS, DOOR STOPS, ETC.</u>			
<u>Dormakaba or equivalent hinges, bolts, etc.</u>			
1	1 pair of stainless steel two ball bearing butt hinge 11 : 46 12 : 124 3 : 0	No 170	
2	Access Hardware Floor or Wall Mounted Magnetic Door Stop Stainless Steel (Code: DMS-SS-022) or equivalent 11 : 5 12 : 4 3 : 0	No 9	
3	Hat and Coat Hook (Code: DHC-SS-030A) or equivalent 11 : 21 12 : 0 3 : 0	No 21	
4	Hat and Coat Hook with rubber buffer (Code: DHC-SS-031B) or equivalent 11 : 2 12 : 62 3 : 0	No 64	
5	Alufab M1519AS or equivalent 150mm Anodised Alumium Flush Bolts. 11 : 4 12 : 4 3 : 0	No 8	
6	"Dormakaba 2300" or equivalent Sealing Compound to be applied to floor spring cement box. 11 : 3 12 : 0 3 : 0	No 3	
7	Dormakaba or equivalent Universal floor spring, double action with adjustable hold open for TIMBER doors certified to EN1154. Adjustable closing time, latching speeds and backcheck. EN1 suitable for door width less than 750mm, EN2 suitable for door width 750-850mm, EN3 suitable for door width 850-950mm, EN4 suitable for door width 950-1100mm (includes: Mech /Spindle/7510SS/7422/8062) Code: BTS75 DAA HO Set or equivalent 11 : 6 12 : 0 3 : 0	No 6	
Carried Forward			R
Section No. 2 Bill No. 9 Ironmongery K-26-05-01			

Brought Forward				R
8	Dormakaba or equivalent Universal floor spring, single action with adjustable hold open for TIMBER doors certified to EN1154. Adjustable closing time, latching speeds and backcheck. EN1 suitable for door width less than 750mm, EN2 suitable for door width 750-850mm, EN3 suitable for door width 850-950mm, EN4 suitable for door width 950-1100mm (includes: Mech/Spindle/7510SS/7456 1/7411K 56E) Code: BTS75 SAA-HO or equivalent 11 : 2 12 : 0 3 : 0	No	2	
9	Wall Buffer (Code: DDH-SS-020) or equivalent 11 : 4 12 : 4 3 : 0	No	8	
10	Floor Mounted Door Stop (Code: DDS-SS-021) or equivalent 11 : 6 12 : 0 3 : 0	No	6	
11	DDS-BLK-017 Half Round Floor mounted Door Stop; Matt Black (Code: DDS-BLK-017) or equivalent 11 : 4 12 : 0 3 : 0	No	4	
12	Floor Mounted Door Stop (Code: DDS-SS-017) or equivalent 11 : 26 12 : 62 3 : 0	No	88	
13	Two point locking panic bar - Single door - Door leaf 1000mm wide x 2270mm high (3102. PHX02. PHX04) (Code: PHB2 S SD) or equivalent 11 : 6 12 : 2 3 : 0	No	8	
14	Three point locking panic bar - Double door - Door leaf 1000mm wide x 2270mm high (3101. 3102. PHX02. PHX04) (Code: PHB3 S DD) or equivalent 11 : 8 12 : 4 3 : 0	No	12	
15	Adjustable Roller Bolt (Code: DBC-SS-022) or equivalent 11 : 2 12 : 4 3 : 0	No	6	
16	Door Viewer with Internal Cover Cap (Code: DDV-SS-033) or equivalent 11 : 0 12 : 30 3 : 0	No	30	
17	Dust Proof Strike (Code: DPS-SS-032) or equivalent 11 : 4 12 : 4 3 : 0	No	8	
<u>LOCKS, HANDLES, ETC.</u>				
Carried Forward				R
Section No. 2 Bill No. 9 Ironmongery K-26-05-01				

Brought Forward			R
<u>Dormakaba or equivalent</u>			
18	Lever handle on rose - Latch (Code: SH-822-SS) or equivalent 11 : 5 12 : 4 3 : 0	No 9	
19	Lever handle on rose - Latch (Code: TH-125-SS) or equivalent 11 : 25 12 : 62 3 : 0	No 87	
20	Exterior access lock with lever handle (Code: PHT3901) or equivalent 11 : 2 12 : 0 3 : 0	No 2	
21	Disabled WC indicator (Red & White) and turn knob for physically impaired (Code: DWC-006-SS) or equivalent 11 : 1 12 : 0 3 : 0	No 1	
22	120 x 40mm Rectangular Flush Pull Handle (Code: DFP-SS-025) or equivalent 11 : 23 12 : 62 3 : 0	No 85	
23	325 x 25mm Straight Tubular Pull Handle Flange Fixing (Code: DPH-301B-SS) or equivalent 11 : 2 12 : 0 3 : 0	No 2	
24	149 x 19mm Straight Tubular Pull Handle BT (Code: DPH-301C-BT-SS) or equivalent 11 : 2 12 : 0 3 : 0	No 2	
25	281 Series Mortised Sash Lock, Backset 55mm, CTC 72mm, 24mm square forend , square strike plate, 20mm double throw deadbolt, euro profile cylinder. CE Fire Rated (Code: 281-55-24S-SS) or equivalent 11 : 2 12 : 0 3 : 0	No 2	
26	Multiple Lever Sash Lock. Case dimensions (mm) 102H x 78D. Forend dimensions (mm) 155H x 22W. Backset 57mm. Centres 62mm. (Code: D034S-SS) or equivalent 11 : 2 12 : 0 3 : 0	No 2	
27	Cylinder Sash Lock. Case dimensions (mm) 116.5H x 78D. Forend dimensions (mm) 168H x 22W. Backset 57mm. Centres 61mm. (Code: D036S-SS) or equivalent 11 : 2 12 : 0 3 : 0	No 2	
Carried Forward			R
Section No. 2 Bill No. 9 Ironmongery K-26-05-01			

Brought Forward			R	
28	Cylinder Deadlock. Case dimensions (mm) 116.5H x 78D. Forend dimensions (mm) 168H x 22W. Backset 57mm.. (Code: D037D-SS) or equivalent 11 : 2 12 : 0 3 : 0	No	2	
29	Bathroom Deadlock. Case dimensions (mm) 38H x 76D. Forend dimensions (mm) 78H x 22.5W. Backset 55mm. (Code: DMWC-SS-008) or equivalent 11 : 23 12 : 0 3 : 0	No	23	
30	300x30mm Straight Tubular Pull Handle BTB (BTB Fixing Sets included) Code: DPH-210-BTB-SS or equivalent 11 : 2 12 : 0 3 : 0	No	2	
31	382x32mm D Shaped Offset Tubular Pull Handle BTB (BTB Fixing Sets included) Code: DPH-215-BTB-SS or equivalent 11 : 2 12 : 0 3 : 0	No	2	
32	150x300x1.2mm thick Grade 430 stainless steel plate. Stainless Steel Plate to have 6 countersunk holes for screw fixing. Code: DPP-430-BL-SF 150 x 300 or equivalent 11 : 2 12 : 0 3 : 0	No	2	
33	65mm DEC-50 five pin Euro-profile Knob Cylinder Key to Differ (Code: DKC056501 KD (65mm)) or equivalent 11 : 25 12 : 62 3 : 0	No	87	
34	66mm DEC-150 five pin Euro-profile Knob Cylinder Master Keyed (Code: DKC156601 MK (66mm)) or equivalent 11 : 2 12 : 0 3 : 0	No	2	
35	65mm Euro-profile Bathroom / Privacy Cylinder (Code: DBC006501) or equivalent 11 : 23 12 : 0 3 : 0	No	23	
36	Round KH escutcheon (Code: DKE-001-SS) or equivalent 11 : 25 12 : 62 3 : 0	No	87	
37	Round Cylinder escutcheon (Code: DCE-002-SS) or equivalent 11 : 5 12 : 4 3 : 0	No	9	
Carried Forward			R	
Section No. 2 Bill No. 9 Ironmongery K-26-05-01				

Brought Forward			R
38	Narrow Stile Cylinder escutcheon (Code: DCE-105-SS) or equivalent 11 : 2 12 : 0 3 : 0	No	2
39	Rebate conversion kit for Euro Profile locks D036S, D037D. Code: D038R-NP or equivalent 11 : 2 12 : 0 3 : 0	No	2
40	43mm DEC-150 five pin Euro-profile Single Cylinder Keyed Alike Code: DSC154301 KA or equivalent 11 : 2 12 : 0 3 : 0	No	2
41	43mm DEC-150 five pin Euro-profile Single Cylinder Master Keyed, Code: DSC154301 MK or equivalent 11 : 2 12 : 0 3 : 0	No	2
42	66mm DEC-150 five pin Euro-profile Double Cylinder Master Keyed Code: DDC156601 MK (66mm) or equivalent 11 : 2 12 : 0 3 : 0	No	2
43	Halstead or equivalent 200 mm SC on Brass Cabin Hook and Eye With 100x100x75mm Chamfered Wrot Meranti Block (Code: 166 or equivalent) 11 : 2 12 : 0 3 : 0	No	2
44	153mm Manual flush bolt with heel (Code: DFB-SC-180 or equivalent) 11 : 2 12 : 0 3 : 0	No	2
<u>PUSH PLATES AND KICK PLATES</u>			
<u>1.2mm Thick Grade 430 stainless steel plates countersunk screwed along edges at not exceeding 200mm centres.</u>			
45	150 x 813 x 1.2mm thick Grade 430 stainless steel kick plate. Stainless Steel Kick Plate to have 10 countersunk holes for screw fixing. Code: DKP-430-SF 150 or equivalent 11 : 10 12 : 4 3 : 0	No	14
<u>DOOR CLOSERS</u>			
Carried Forward			R
Section No. 2 Bill No. 9 Ironmongery K-26-05-01			

Brought Forward			R
<u>Dormakaba or equivalent</u>			
46	EN 1-4 Rack and pinion door closer with standard NON HOLD OPEN scissor arm. EN1154, certified to ISO 9001. Hydraulic speed control, backcheck and DELAYED ACTION. Standard pull side fixing, transom push side fixing. EN 1 suitable for door width <850mm, EN2 suitable for door width 750-850mm, EN3 suitable for door width 850-950mm, EN4 suitable for door width 950-1100mm. Fire rated. Approved to AS1905 Part 1. (Code: TS73V DC - SL) or equivalent 11 : 6 12 : 0 3 : 0	No	6
47	EN 3-6 Rack and pinion door closer with standard HOLD OPEN scissor arm and parallel arm bracket. EN1154, certified to ISO 9001. Hydraulic speed control and backcheck. Standard push side fixing. EN3 suitable for door width 850-950mm, EN4 suitable for door width 950-1100mm, EN5 suitable for door width 1100-1250mm, EN6 suitable for door width 1250-1400mm. Fire rated (Code: TS83 PA HO - SL) or equivalent 11 : 4 12 : 4 3 : 0	No	8
48	EN 3 Cam action door closer with standard NON HOLD OPEN slide channel arm. EN1154, certified to ISO 9001. Hydraulic speed control. Standard pull-side door leaf fixing. Transom push-side fixing. EN3 suitable for door width 850-950mm. Fire rated: CERTI FIRE approved (CF 119) for door types ITT 120, MM/IMM 240. (Code: TS91B) or equivalent 11 : 2 12 : 0 3 : 0	No	2
49	EN 3 Cam action door closer with HOLD OPEN slide channel arm. EN1154, certified to ISO 9001. Hydraulic speed control. Standard pull-side door leaf fixing, push-side transom fixing. EN3 suitable for door width 850-950mm. Fire rated: CERTI FIRE approved (CF 119) for door types ITT 120, MM/IMM 240.. (Code: TS91B HO - SL) or equivalent 11 : 2 12 : 54 3 : 0	No	56
<u>LETTERS, NAMEPLATES, ETC.</u>			
Carried Forward			R
Section No. 2 Bill No. 9 Ironmongery K-26-05-01			

Brought Forward			R	
<u>Dormakaba or equivalent</u>				
50	150x150mm MALE/FEMALE sign (Code: DSS-132 MF) or equivalent 11 : 2 12 : 0 3 : 0	No	2	
51	150x150mm DISABLED PERSONS sign (Code: DSS-133 P) or equivalent 11 : 1 12 : 0 3 : 0	No	1	
52	150x150mm MALE sign (Code: DSS-130 M) or equivalent 11 : 2 12 : 0 3 : 0	No	2	
53	150x150mm FEMALE sign (Code: DSS-131 F) or equivalent 11 : 2 12 : 0 3 : 0	No	2	
54	150x150mm TEA CUP sign (Code: DSS-135 TC) or equivalent 11 : 1 12 : 0 3 : 0	No	1	
55	150x150mm ELECTRICAL sign (Code: DSS-136 EL) or equivalent 11 : 1 12 : 4 3 : 0	No	5	
56	150x150mm CLEANER sign (Code: DSS-138 C) or equivalent 11 : 1 12 : 0 3 : 0	No	1	
57	150x150mm FIRE HOSE REEL sign (Code: DSS-145 FHR) or equivalent 11 : 3 12 : 4 3 : 0	No	7	
<u>BATHROOM ACCESSORIES</u>				
<u>By approved manufacturer:</u>				
58	275 x 112 x 355 Paper towel dispenser for wall mounting, 0.8 mm Stainless Steel, surface satin finished, folded front cover, cylinder lock with Franke or equally approved standard key, inspection windows on sides, loading capacity 500 - 800 pcs. of paper depending on convolution, incl. Stainless Steel screws and dowels (SKU 2120099 or equivalent). 11 : 6 12 : 30 3 : 0	No	36	
Carried Forward			R	
Section No. 2 Bill No. 9 Ironmongery K-26-05-01				

Brought Forward				R	
59	144 x 138 x 301 Double toilet roll holder with spindle system for wall mounting, Stainless Steel, surface satin finished, folded front cover, cylinder lock with Franke or equivalent standard key. For 2 rolls with max. Ø 120 mm, second roll will be released after consumption of first roll, with spindles, reserve roll not visible. Includes Stainless Steel screws and dowels. 11 : 12 12 : 30 3 : 0	No	42		
60	"Rodan" or similar approved Soap Dispenser-Electronic Sensor RODX625 : Touch free soap dispenser for wall mounting, manufactured from 0.8 mm Stainless Steel, satin finished. Folded front cover, cylinder lock with Franke or equivalent standard key and inspection window on front. Infra red sensor activity for non-touch operation. LED-light shows battery status - Integrated refillable 0.8 litre soap tank suitable for liquid soaps and lotions - Mounting height >300 mm above wash basin or table top - Between 0.6ml and 1.1 ml is dispensed (SKU: 2120107 or equivalent) 11 : 12 12 : 30 3 : 0	No	42		
61	355 x 168 x 460 Waste Bin for wall mounting, 0.8 mm Stainless Steel, surface satin finished. Rounded edges, approx. 23 litre capacity, mounting either with mounting bracket or directly onto the wall, includes Stainless Steel screws and dowels (SKU: 2120097 or equivalent) 11 : 10 12 : 30 3 : 0	No	40		
62	"Kimberley Clark" or equivalent Professional Scott continuous air freshener dispenser code (92620 or equivalent) with replaceable aerosol container, plugged. 11 : 10 12 : 30 3 : 0	No	40		
63	"Steibel Eltron"Charcoal grey metallic turbo charged hand dryer (Model HTT5AM) or equivalent 11 : 6 12 : 0 3 : 0	No	6		
64	"Cubus" or similar approved Soap Dish CUBX007HP or equally approved for wall mounting 304 Stainless steel Glass Dish Square covers with drilled hole on bottom for fixation Including SS screws and dowels Finish: High Polished Stainless Steel Dimensions: 147 x 135 x 54 mm (SKU: 2120187 or equivalent) 11 : 2 12 : 30 3 : 0	No	32		
Carried Forward				R	
Section No. 2 Bill No. 9 Ironmongery K-26-05-01					

Brought Forward				R
<u>Grab Rails</u>				
65	Paraplegic Rails dog leg grab rail with 2 supports (code: GRDG02B) or similar approved with brushed grade 304 stainless steel finish, overall size 604 x 604 x 106mm, plugged and screwed to wall with stainless steel screws. 11 : 1 12 : 4 3 : 0	No	5	
66	Paraplegic Rails cistern grab rail 750 x 750 x 200mm (code: GRDG02B) or similar approved with brushed grade 304 stainless steel finish, plugged and screwed to wall with stainless steel screws. 11 : 1 12 : 4 3 : 0	No	5	
67	Paraplegic Rails flush valve grab rail (code: GRFV01B) or similar approved with brushed grade 304 stainless steel finish, overall size 842mm long, plugged and screwed to wall with stainless steel screws. 11 : 1 12 : 4 3 : 0	No	5	
<u>Towel rails</u>				
68	Colete Accessories (Cobrawaterch) Code :AC-0901-100 or equally approved 19mm chrome plated single rail 590mm long supplied complete with end brackets, wall mountings; mountings screws & rawl plugs Rails to be fixed at 1100mm from FFL as per manufacturer's specifications. 11 : 2 12 : 30 3 : 0	No	32	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
Bill No. 9				
Ironmongery				
K-26-05-01				

Item No		Quantity	Rate	Amount
	<u>BILL 10</u> <u>STRUCTURAL STEEL (PROVISIONAL)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill. <u>NOTE:</u> This document must be read and familiarised with in conjunction with the Architects drawings as annexed to this document and tenderers must make allowance in their rates for these specifications. No claims arising out of failure to do so will be entertained. <u>SUPPLEMENTARY PREAMBLES</u> STEELWORK NOTES <u>A. DESIGN</u> S1 All fabrication and construction of structural steelwork to be in accordance with SANS 1431 & SANS 2001 CS-1. S2 All hot rolled steelwork to be grade S355JR. S3 Bolts to be grade 4.8 M12 minimum (except where noted otherwise). S4 Structural steel corrosion protection to be in accordance with BS 5493. S5 All welding to be continuous 6mm fillet weld (u.o.s.) with a minimum throat thickness not exceeding 0,7 x the thinner material thickness welded to (all round) unless noted otherwise.			
	Carried Forward Section No. 2 Bill No. 10 Structural Steel K-26-05-01		R	

Brought Forward <u>B. FABRICATION AND ERECTION:</u> S6 Steel fabrication and erection to comply with SABS 1200 H, SANS 1431 & SANS 2001 CS-1 and may not commence before shop drawings are approved by the engineer. S7 Minimum edge distance to bolts to be 1,75 times bolt diameter, u.o.s. S8 Minimum bolt spacing to be 2,5 times bolt diameter, u.o.s. S9 Contractor to ensure the stability and safe erection of the structure, and to provide all necessary bracing to enable him to do so. Such bracing to be indicated on the erection general arrangement drawings. S10 Erection of steel to commence at bracing bay. Contractor to ensure all subsequent elements are adequately tied to bracing bay at the end of the day. S11 No site cutting or welding will be allowed unless pre-arranged with the engineer. <u>C. GENERAL:</u> S12 These drawings to be read in conjunction with the architect's drawings. Any discrepancies to be resolved before construction commences. S13 The engineer will not be held responsible for any work that deviates from the engineer's or approved shop drawings. S14 Purlin splices to be staggered in plan. Shop drawing roof layout to be presented to and approved by engineer. S15 All structural steel below ground level to be painted with 2 coats epoxy tar. <u>D. PAINT SPECIFICATION:</u> S16 All structural steel and bolts to be hot dipped galvanized unless shown otherwise. WORKMANSHIP - STEEL ERECTION Carried Forward Section No. 2 Bill No. 10 Structural Steel K-26-05-01		R	
		R	

Brought Forward <u>A. CHEMICAL ANCHORS:</u> W1 Chemical anchor bolts for fixing steelwork to concrete elements shall be installed in accordance with the manufacturer's recommendations for hole diameter, depth of embedment and tightening torque. <u>B. SETTING OUT AND HOLDING DOWN BOLTS:</u> W2 The contractor shall, before commencing erection, check all holding down bolts for deviation from line and level and report in writing to the Engineer any deviation which falls outside the tolerances specified. Commencement of erection shall infer acceptance of holding down bolts and concrete work as constructed or remedied. <u>C. WELDER QUALIFICATION:</u> W3 Welder qualification certificates shall be submitted to the Engineer.		R	
Carried Forward Section No. 2 Bill No. 10 Structural Steel K-26-05-01		R	

Brought Forward <u>D. NON-DESTRUCTIVE TESTING OF WELDS:</u> Non-destructive testing of welds is required to be performed according to AWS D1.1 by suitably qualified and competent personnel. All test procedures techniques and acceptance criteria are to be as specified in AWS D1.1. For the purpose of testing welds, welds are defined as non-critical and critical welds as follows: W4 NON-CRITICAL WELDS: Seal welds on plate work stiffeners, welding on safety guards, welding of rungs on cat ladders, welding of walkway mesh to stringers, welding of handrail tubing. W5 CRITICAL WELDS: All crane, beam end plates, load carrying gussets, column base plates, all welds on fabrication girders, stiffeners and flanges on plate work (transfer chutes, hoppers and bins), support brackets on plate work, welding on members that will be subject to fatigue loading, welding of lifting lugs, welding of soleplates to structures and any other weld identified as such by the structural engineer. W6 SITE WELDING: All structural site welding, typically cast-in plates shall be considered critical welds. All structural site welding shall be accompanied by a dedicated welding procedure approved by the Design Engineer. W6 ALL SHOP AND SITE WELDS SHALL BE SUBJECT TO THE FOLLOWING MINIMUM ON-DESTRUCTIVE TESTING:		R	
Carried Forward Section No. 2 Bill No. 10 Structural Steel K-26-05-01		R	

Brought Forward

Weld Type	Visual Inspection *	Dye Penetration **	Magnetic Particle separation **	Ultra Sonic **	R Gr Te
Fillet	100%	40%	10%	0%	
Butt/Groove	100%	40%	0%	10%	*
Site Welding	100%	40%	10%	10%	

NOTES:

- *All shop and site welds shall be visually inspected.
- **All critical welds shall be testes as follows:
- ***Radiographic testing on groove welds will only be
 - 40% will be subjected to dye penetration tests.
 - 10% will be subjected to Magnetic particle tests.
 - 10% will be subjected to Ultrasonic tests.

done when requested by the Engineer.

- The percentage stated in the table above relates to the weld length to be tested.

- Welds not satisfying the acceptance criteria as stated in the AWS D1.1 testing procedures are to be required in accordance with AWS D1.1 and re-tested, all at the Contractor's account.

At the request of the Engineer, the Contractor shall, at his own expense, extend the testing to twice the above requirements, where test results consistently fail the acceptance criteria.

SHOP DRAWINGS

Shop drawings should be submitted to and approved by the Engineer prior to manufacturing. The cost of preparing, presenting and making any amendments to the shop drawings shall be incorporated on the rates.

R

Carried Forward

R

Section No. 2
Bill No. 10
Structural Steel
K-26-05-01

	Brought Forward			R	
	LOCATION DESCRIPTION				
	[11] - Conference Centre				
	[12] - Hotel				
	[3] - External Works				
	General				
	Allowances below are for design, supply and installation, including input from an approved structural steel contractor, the detail of which will be required by the structural engineer.				
	Tenderers must take note that the following allowances shall be separately tendered to a suitable design and supply subcontractor should the tenderer not be qualified to take on such specialised work				
	STRUCTURAL STEEL				
	STEEL COLUMNS AND BEAMS INCLUDING PRIMER				
	<u>Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete</u>				
1	IPE 200 - Columns 11 : 4.00 12 : 0.00 3 : 0.00	t	4.00		
2	305 x 305 x 97 UB and UC 11 : 8.00 12 : 0.00 3 : 0.00	t	8.00		
3	203 x 133 x 30 UB 11 : 0.00 12 : 20.00 3 : 0.00	t	20.00		
	<u>Welded beams in single lengths with flat base, cap, bearer and connection plates, bolted to steel or concrete</u>				
4	305 x 102 x 25 I Rafter 11 : 10.00 12 : 0.00 3 : 0.00	t	10.00		
	STEEL PURLINS, GIRTS, BRACING, ETC INCLUDING PRIMER				
	<u>Purlins and girts, bolted to steel or concrete</u>				
5	150 x 50 x 20 x 2.0 CFLC Purlins 11 : 7.00 12 : 0.00 3 : 0.00	t	7.00		
	Carried Forward			R	
	Section No. 2 Bill No. 10 Structural Steel K-26-05-01				

Brought Forward				R	
6	100 x 50 x 20 x 3.0 CFLC Purlins 11 : 0.00 12 : 8.00 3 : 0.00 <u>Welded bracing, anti-sag rails, etc with flat connection plates, bolted to steel or concrete</u>	t	8.00		
7	60 x 60 x 5 Angle Bracing 11 : 1.20 12 : 2.40 3 : 0.00	t	3.60		
8	60 x 60 x 5 Angle Trimmer 11 : 0.50 12 : 1.00 3 : 0.00	t	1.50		
<u>BOLTS, FASTENERS, ETC</u>					
9	16mm Diameter chemical anchor bolt embedded in top of concrete 11 : 384 12 : 240 3 : 0	No	624		
<u>BASE PLATES, ETC.</u>					
10	305 x 405 x 10mm Base plate 11 : 0.33 12 : 0.66 3 : 0.00	t	0.98		
11	10mm Thick x 302 x 102mm end plate welded to Rafter 11 : 0.07 12 : 0.14 3 : 0.00	t	0.22		
<u>SUNDRIES</u>					
<u>40MPa non-shrink grout</u>					
12	Bedding approximately 20mm thick under 305 x 405mm wide baseplate, including chamfered edges all round 11 : 66 12 : 132 3 : 0	No	198		
<u>Plates, etc.</u>					
13	Allowance for plates, bolts, etc. 11 : 3.10 12 : 5.00 3 : 0.00	t	8.10		
Carried Forward to Summary of Section No. 2				R	
Section No. 2					
Bill No. 10					
Structural Steel					
K-26-05-01					

Item No		Quantity	Rate	Amount
	<u>BILL 11</u> <u>METALWORK (PROVISIONAL)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill. <u>NOTE:</u> This document must be read and familiarised with in conjunction with the Architects drawings as annexed to this document and tenderers must make allowance in their rates for these specifications. No claims arising out of failure to do so will be entertained. <u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect. <u>Protection of works</u> Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the principal agent and that tenderers should allow in their rates for such protection. <u>Descriptions:</u> Descriptions of bolts shall be deemed to include nuts and washers. Metalwork described as holed for bolt(s) shall be deemed to exclude the bolts unless otherwise described. All surfaces of steelwork must be given one coat of approved zinc chromate primer before leaving the works of the manufacturer			
	Carried Forward Section No. 2 Bill No. 11 Metalwork K-26-05-01		R	

Brought Forward <u>Aluminium Installation</u> Rates should include for <u>design, supply and installation</u>, the detail of which must be submitted with this tender to be approved by the Architect. All tenderers must take note that all aluminium doors and shopfronts and glass must comply to following standards; • AAAMSA • SANS 10400 • SANS 110137:2011(Ed 4.00) • SAMS 10160 • SANS 1263-1:2013 (Ed 3.02) • NBR part "N" glazing All ironmongery to be approved window/door gear as per Architects specifications where applicable. where not applicable, tenderers are to allow for standard ironmongery Tenderers must take note that the following items are only for tender purposes and will be used as basis for the whole project and therefore the quantity & size might change. No claims in this regard will be entertained. Shop drawings should be submitted to and approved by the Architect prior to manufacturing Final measurements must be taken on site Frames shall be "Aluminium Thermal Break Frames" as per specialist design, supply & installation Site dimensions are to be checked by the contractor and confirmed before the start of manufacture. The Tenderer should include for all plant and equipment necessary for placing in position, horizontal carting over roof and hoisting from ground level. Warranties to be supplied as per Manufacturers specifications <u>Stainless steel balustrading</u> Rates should include for design, supply and installation, the detail of which must be submitted with this tender to be approved by the Architect. Carried Forward Section No. 2 Bill No. 11 Metalwork K-26-05-01		R	
		R	

Brought Forward Tenderers must take note that the following items are only for tender purposes and will be used as basis and therefore the quantity might change. No claims in this regard will be entertained Note: Shop drawings should be submitted to and approved by the Architect All surfaces of steelwork must be given one coat of approved zinc chromate primer before leaving the works of the manufacturer <u>Glazing</u> The thickness of glass panels must meet the requirements of the National Building Regulations and the relevant SABS Codes of Glazing Practice. If any glass types or thicknesses specified in this document does not conform with the above regulations, the tenderer is to note that he has to inform the Quantity Surveyor of such discrepancies at the time of tender as no claims in this regard will be entertained at a later stage		R	
Carried Forward Section No. 2 Bill No. 11 Metalwork K-26-05-01		R	

Brought Forward			R
LOCATION DESCRIPTION			
[11]	- Conference Centre		
[12]	- Hotel		
[3]	- External Works		
<u>STAINLESS STEEL BALUSTRADING</u>			
<u>Design, supply, deliver and erect the following stainless steel balustrades including end pieces, corners, etc.</u>			
1	Horizontal balustrades 1100mm high overall in accordance to building regulations (to be designed & supplied & signed off by the contractor). Balustrade to be core drilled and chemically fixed through concrete, brickwork, etc.	m	6
	11 : 0 12 : 6 3 : 0		
2	Raking (sloping) balustrades 1100mm high overall in accordance to building regulations (to be designed & supplied & signed off by the contractor). Balustrade to be core drilled and chemically fixed through concrete, brickwork, etc.	m	18
	11 : 0 12 : 18 3 : 0		
<u>PRESSED STEEL DOOR FRAMES</u>			
<u>HD 1.6mm Single rebated hot dipped galvanised pressed steel door frame, suitable for half and one brick walls as per plan</u>			
3	Frame for door 0,813 x 2,100mm high	No	21
	11 : 21 12 : 0 3 : 0		
4	Frame for door 1,000 x 2,100mm high	No	2
	11 : 2 12 : 0 3 : 0		
5	Frame for door 0,813 x 2,125mm high	No	54
	11 : 0 12 : 54 3 : 0		
6	Frame for door 1,000 x 2,125mm high	No	8
	11 : 0 12 : 8 3 : 0		
<u>SUNDRY STEELWORK</u>			
Carried Forward			R
Section No. 2 Bill No. 11 Metalwork K-26-05-01			

Brought Forward			R
<u>Descriptions:</u> Descriptions of bolts shall be deemed to include nuts and washers. Metalwork described as holed for bolt(s) shall be deemed to exclude the bolts unless otherwise described. All surfaces of steelwork must be given one coat of approved zinc chromate primer before leaving the works of the manufacturer <u>"Trellidor" or equivalent retractable trellis-type sliding security gate with top and bottom track supplied with and including slam lock, all powder coated (Colour: Matt Charcoal)</u>			
7	Security gate for double door, size 1,500 x 2 100mm high 11 : 0 12 : 4 3 : 0	No	4
<u>Shop front supports, etc.</u>			
8	254 x 146 x 31.3kg/m I section mild steel shop front support, fixed to concrete slabs, brick walls, etc. 11 : 1517 12 : 0 3 : 0	kg	1 517
<u>Bolts, fasteners, etc.</u>			
9	M16 Bolts 11 : 56 12 : 0 3 : 0	No	56
<u>Base plates, etc.</u>			
10	200 x 200 x 10mm Base plate 11 : 14 12 : 0 3 : 0	No	14
<u>POWDER COATED HORIZONTAL ALUMINIUM LOUVRE UNITS</u>			
Carried Forward			R
Section No. 2 Bill No. 11 Metalwork K-26-05-01			

Brought Forward			R	
Purpose made powder coated shiny bronze ventilation louvre complying with SANS including insect mesh to architect's approval and applied in accordance with SANS by an approved applicator. Louvre to including 1 hour fire rated frame of NKCASA casement type for 16mm combinations				
11	Louvre, size 3,000 x 1,116mm high - W17 11 : 1 12 : 0 3 : 0	No	1	
12	Louvre, size 5,500 x 1,116mm high - W18 11 : 2 12 : 0 3 : 0	No	2	
13	Louvre, size 5,500 x 0,700mm high - W19 11 : 1 12 : 0 3 : 0	No	1	
14	Louvre, size 0,580 x 2,400mm high - LV01 11 : 0 12 : 16 3 : 0	No	16	
<u>SHOWER SCREENS</u>				
<u>Design, supply, deliver and erect the following shower screens, complete including any sub-frames, clear silicone joint to all edges, fixing in position, toughened safety glass, etc. and sealing watertight, including ironmongery (handles, etc.), fixing to brickwork</u>				
15	Approved CrystalTech Clear Trimatic White Aluminium Shower Door - (885mm to 915mm x 1850mm) Sizes to be confirmed on site. 11 : 2 12 : 30 3 : 0	No	32	
<u>ALUMINIUM DOORS</u>				
<u>Refer to Architects Door & Window Schedule</u>				
Carried Forward			R	
Section No. 2 Bill No. 11 Metalwork K-26-05-01				

Brought Forward			R	
<u>Design, supply, deliver and erect the following custom made 60mm powder coated aluminium doors (Colour: Charcoal Grey), complete including NKCASA casement type for 16mm combination aluminium framing, sub-frames, hinges, fixing in position, glazing, etc. and sealing watertight, including ironmongery attached with this tender from "Dormakaba" or equally approved, fixing to brickwork with plastered / face brick surface, concrete, etc. all inclusive as per Architect's drawings and/ or approval (Glass Type: 6.38mm thick clear laminated safety glass)</u> Conference				
16	Door, overall size 2,885 x 2,100mm high with and including side lights - D1 11 : 1 12 : 0 3 : 0	No	1	
17	Door, overall size 1,800 x 3,100mm high with and including side and fan lights - D1 11 : 2 12 : 0 3 : 0	No	2	
18	Door, overall size 1,500 x 2,765mm high with and including fan lights - D2 11 : 1 12 : 0 3 : 0	No	1	
19	Door, overall size 1,600 x 2,765mm high with and including fan lights - D3 11 : 2 12 : 0 3 : 0	No	2	
20	Door, overall size 2,900 x 2,765mm high with and including side lights - D4 11 : 4 12 : 0 3 : 0	No	4	
21	Door, overall size 5,958 x 2,400mm high with and including side lights - D5 11 : 1 12 : 0 3 : 0	No	1	
22	Door, overall size 1,500 x 2,100mm high - D6 11 : 2 12 : 0 3 : 0	No	2	
23	Stacker Door, overall size 4,500 x 2,765mm high - D8 11 : 3 12 : 0 3 : 0	No	3	
24	Stacker Door, overall size 6,400 x 2,100mm high - D9 11 : 2 12 : 0 3 : 0	No	2	
Carried Forward			R	
Section No. 2 Bill No. 11 Metalwork K-26-05-01				

Brought Forward			R	
25	Stacker Door, overall size 9,000 x 2,100mm high - D10 11 : 1 12 : 0 3 : 0	No	1	
26	Door, overall size 2,897 x 2,100mm high with and including side lights - D11 11 : 1 12 : 0 3 : 0	No	1	
27	Door, overall size 1,500 x 2,765mm high with and including side and fan lights - D12 11 : 1 12 : 0 3 : 0	No	1	
28	Door, overall size 1,500 x 3,100mm high with and including side and fan lights - D12 11 : 1 12 : 0 3 : 0	No	1	
29	Door, overall size 2,000 x 2,100mm high with and including side lights - D13 11 : 1 12 : 0 3 : 0	No	1	
30	Double Sliding Door, overall size 12,143 x 2,400mm high with and including supports - D14 11 : 1 12 : 0 3 : 0	No	1	
31	Door, overall size 2,384 x 2,765mm high with and including side and fan lights - D14 11 : 2 12 : 0 3 : 0	No	2	
32	Sliding Door, overall size 1,800 x 2,100mm high - D18 11 : 2 12 : 0 3 : 0	No	2	
	Hotel			
33	Door, overall size 1,500 x 2,100mm high - D4 11 : 0 12 : 4 3 : 0	No	4	
<u>ALUMINIUM WINDOWS</u>				
<u>Refer to Architects Door & Window Schedule</u>				
Carried Forward			R	
Section No. 2 Bill No. 11 Metalwork K-26-05-01				

	Brought Forward			R	
	<u>Design, supply, deliver and erect the following custom made 60mm powder coated aluminium windows (Colour: Charcoal Grey), complete including NKCASA casement type for 16mm combination aluminium framing, sub-frames, hinges, fixing in position, glazing, etc. and sealing watertight, including ironmongery attached with this tender from "Dormakaba" or equally approved, fixing to brickwork with plastered / face brick surface, concrete, etc. all inclusive as per Architect's drawings and/ or approval (Glass Type: 6.38mm thick laminated safety clear glass)</u> Conference				
34	Window, overall size 5,298mm wide x 2,765mm high - W1 11 : 1 12 : 0 3 : 0	No	1		
35	Window, overall size 5,842mm wide x 2,765mm high - W1 11 : 1 12 : 0 3 : 0	No	1		
36	Window, overall size 4,815mm wide x 2,765mm high - W1 11 : 2 12 : 0 3 : 0	No	2		
37	Trapezoid Window, overall size 4,556mm wide x 7,035mm high - W2 11 : 2 12 : 0 3 : 0	No	2		
38	Window, overall size 1,000mm wide x 1,704mm high - W3 11 : 1 12 : 0 3 : 0	No	1		
39	Window, overall size 1,000mm wide x 2,765mm high - W4 11 : 1 12 : 0 3 : 0	No	1		
40	Window, overall size 2,897mm wide x 2,765mm high - W5 11 : 1 12 : 0 3 : 0	No	1		
41	Window, overall size 3,000mm wide x 0,587mm high - W6 11 : 1 12 : 0 3 : 0	No	1		
	Carried Forward			R	
	Section No. 2 Bill No. 11 Metalwork K-26-05-01				

Brought Forward				R	
42	Window, overall size 3,000mm wide x 0,600mm high - W6	No	1		
	11 : 1 12 : 0 3 : 0				
43	Window, overall size 1,500mm wide x 0,600mm high - W7	No	1		
	11 : 1 12 : 0 3 : 0				
44	Window, overall size 0,825mm wide x 2,765mm high - W7	No	1		
	11 : 1 12 : 0 3 : 0				
45	Window, overall size 1,450mm wide x 1,500mm high - W8	No	2		
	11 : 2 12 : 0 3 : 0				
46	Window, overall size 5,200mm wide x 2,765mm high - W9	No	3		
	11 : 3 12 : 0 3 : 0				
47	Window, overall size 1,270mm wide x 2,000mm high - W10	No	1		
	11 : 1 12 : 0 3 : 0				
48	Window, overall size 2,725mm wide x 1,200mm high - W11	No	1		
	11 : 1 12 : 0 3 : 0				
49	Window, overall size 3,500mm wide x 2,765mm high - W12	No	1		
	11 : 1 12 : 0 3 : 0				
50	Window, overall size 4,700mm wide x 2,765mm high - W12	No	2		
	11 : 2 12 : 0 3 : 0				
51	Window, overall size 4,700mm wide x 1,500mm high - W12	No	1		
	11 : 1 12 : 0 3 : 0				
52	Window, overall size 4,808mm wide x 0,600mm high - W13	No	1		
	11 : 1 12 : 0 3 : 0				
Carried Forward				R	
Section No. 2 Bill No. 11 Metalwork K-26-05-01					

Brought Forward			R	
53	Window, overall size 5,200mm wide x 0,600mm high - W13 11 : 1 12 : 0 3 : 0	No	1	
54	Window, overall size 7,893mm wide x 0,800mm high - W14 11 : 1 12 : 0 3 : 0	No	1	
55	Trapezoid Window, overall size 12,143mm wide x 2,983mm high - W15 11 : 1 12 : 0 3 : 0	No	1	
Hotel				
56	Trapezoid Window, overall size 3,100mm wide x 2,800mm high - W1 11 : 0 12 : 4 3 : 0	No	4	
57	Window, overall size 0,600mm wide x 0,900mm high with obscure glass - W2 11 : 0 12 : 30 3 : 0	No	30	
58	Window, overall size 4,448mm wide x 1,022mm high - W03 11 : 0 12 : 12 3 : 0	No	12	
59	Trapezoid Window, overall size 1,579mm wide x 2,329mm high - W4 11 : 0 12 : 4 3 : 0	No	4	
60	Window, overall size 1,600mm wide x 2,400mm high - W5 11 : 0 12 : 36 3 : 0	No	36	
61	Window, overall size 2,097mm wide x 1,022mm high - W6 11 : 0 12 : 2 3 : 0	No	2	
<u>ALUMINIUM ROLLER SHUTTERS, ETC.</u>				
Carried Forward			R	
Section No. 2 Bill No. 11 Metalwork K-26-05-01				

[illegible]

Item No		Quantity	Rate	Amount
	<u>BILL 12</u> <u>PLASTERING (PROVISIONAL)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill. <u>SUPPLEMENTARY PREAMBLES</u> <u>NOTE:</u> This document must be read and familiarised with in conjunction with the Architects drawings as annexed to this document and tenderers must make allowance in their rates for these specifications. No claims arising out of failure to do so will be entertained. <u>Protection of works</u> Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the principal agent and that tenderers should allow in their rates for such protection. <u>Screeds</u> <u>Preparation of existing slab</u> All laitance on the surface of the slab must be removed completely. Mechanized plant such as scabblers or abrasive blasters must be used. After the mechanical cleaning of the slab surface to expose the coarse aggregate, all dust and debris must be removed, and the surface must be thoroughly wetted and kept wet for at least 12 hours before application of the screed.			
	Carried Forward Section No. 2 Bill No. 12 Plastering K-26-05-01		R	

Brought Forward <u>Concrete screed</u> Prepare new surface bed and screed & cast new 25-30mm (or thickness as described in the bills of quantities) thick 1 part cement & 3½ part sand, mix by hand or preferably by forced-action mechanical mixer for 3 minutes, use within 45 minutes. Screed to comply to sans 50197-1 type CEM I or CEM II. Lay guide strips of screed mix to establish levels, lay screed in panels as large as possible in one operation without intermediate joints, level surface as finished by wood floats to non-slip finish. The use of an approved plasticizer is recommended to reduce the water content of the mix to the absolute workable minimum. The mix design must be submitted to the engineer and architect for approval. <u>Application of concrete screed</u> Remove all surface water from the slab. Apply a grout to the slab surface which consists of a 1:1 mix of cement and clean fine sand with just enough water to provide the consistency of a slurry. This grout is to be vigorously brushed into the scabbled surface with brooms. On completion of this operation, the surplus grout must be brushed off to leave only a thin coating. The screed must be placed while the grout is still visibly wet. The screed must be laid and compacted in one layer. Care must be taken to obtain the maximum compaction of the concrete screed.		R	
Carried Forward Section No. 2 Bill No. 12 Plastering K-26-05-01		R	

	Brought Forward		R	
	<u>Plaster</u> Cement plaster for 1 coat work on all brickwork shall be composed of 3 parts of sand to 1 part of cement, all measured by volume, and mixed as follows: Cement mortar shall be composed of 3 parts (by volume) of sand and 1 part (by volume) of cement. The material shall be mixed dry until of uniform colour and then water added and the mixture turned over until the ingredients are thoroughly incorporated. Cement mortar shall be produced in such quantities as can be used before commencing to set as no cement mortar that has once commenced to set shall be used in any way. Care shall be taken in mixing cement mortar to remove from the mixing machine or platform any old mortar that has already set as such mortar may not be incorporated into any new batch. Plaster sand should comply with SABS 1090 requirements. Plaster mix must be applied at a minimum thickness of 20mm, curing to a hard and sound finish, free of soft and friable material. MPA strength must comply with SABS 0164-1 (10MPa=2,6:1 and 5MPa=4:1). The substrates to be coated must be handed over to the painting contractor in a good condition. Should crack repairs be necessary, please contact Manufacturer for a crack repair specification guideline. Cement Plaster for 2 coats to conform to fine plaster sand modulus of not larger than 1mm. (SABS 1090). Wood-trowelled to smooth surface and finish with steel trowel skim finish. Allow time for the drying of surface moisture.			
	<u>LOCATION DESCRIPTION</u> [11] - Conference Centre [12] - Hotel [3] - External Works <u>SCREEDS</u> <u>Screeds steel floated on concrete</u>			
1	25 mm Thick on treads and risers of stairs including readings 11 : 3 12 : 5 3 : 0	m2	8	
	Carried Forward		R	
	Section No. 2 Bill No. 12 Plastering K-26-05-01			

Brought Forward				R	
2	30mm Thick on floors and landings 11 : 4 12 : 8 3 : 0	m2	12		
3	40mm Thick on floors and landings 11 : 1052 12 : 948 3 : 0	m2	2 000		
4	Average 150mm thick on roof slabs to falls and currents 11 : 96 12 : 162 3 : 0	m2	258		
5	ITE F30 or equivalent self levelling screed in strict accordance with manufacturers specifications at an average thickness of 3mm to 4mm. 11 : 118 12 : 0 3 : 0	m2	118		
6	70 x 70mm Coved screed fillet against walls, planters, etc. wood floated 11 : 62 12 : 144 3 : 0	m	206		
<u>GRANOLITHIC SCREEDS</u>					
<u>Steel floated Untinted granolithic on concrete (degree of accuracy grade III).</u>					
7	40mm Thick on floor and landings 11 : 5 12 : 0 3 : 0	m2	5		
<u>PLASTER</u>					
<u>One coat cement plaster on brickwork, concrete columns, etc.</u>					
8	External Walls 11 : 532 12 : 560 3 : 0	m2	1 092		
9	Internal Walls 11 : 3326 12 : 4334 3 : 0	m2	7 660		
10	On narrow widths 11 : 146 12 : 165 3 : 0	m2	311		
11	On narrow widths of window sills to falls 11 : 29 12 : 37 3 : 0	m2	66		
12	On narrow widths in forming 150mm wide plaster bands 11 : 78 12 : 23 3 : 0	m	101		
13	Full depth V-joints to plaster work around stair landings 11 : 3 12 : 7 3 : 0	m	10		
Carried Forward				R	
Section No. 2 Bill No. 12 Plastering K-26-05-01					

Brought Forward			R
14	Full depth V-joints to plaster work where brickwork and concrete join 11 : 42 12 : 0 3 : 0 <u>Two coat cement plaster, with gypsum skim plaster steel trowel finish on brick work surfaces, concrete surfaces, etc.</u>	m	42
15	On soffit of slabs 11 : 0 12 : 146 3 : 0	m2	146
Carried Forward to Summary of Section No. 2			R
Section No. 2 Bill No. 12 Plastering K-26-05-01			

Item No		Quantity	Rate	Amount
	<u>BILL 13</u> <u>TILING (PROVISIONAL)</u> <u>PREAMBLES</u> The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained <u>NOTE:</u> This document must be read and familiarised with in conjunction with the Architects drawings as annexed to this document and tenderers must make allowance in their rates for these specifications. No claims arising out of failure to do so will be entertained. <u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect. <u>Fixing</u> Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc. shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors, etc. shall be deemed to include 1:3 plaster bedding Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from "Tal Professional" range of products as recommended by the manufacturer of the tiles			
	Carried Forward		R	
	Section No. 2 Bill No. 13 Tiling K-26-05-01			

Brought Forward <u>Cleaning of tiles</u> Tiling shall be thoroughly cleaned down on completion. No additional costs for cleaning will be entertained <u>Availability of tiles</u> When pricing tenderers must make sure that there is enough stock available or that enough stock can be obtained timeously of the respective tiles specified <u>Cutting of tiles</u> All straight, circular and raking cutting and waste must be allowed for in the rates <u>Bonding liquid and Keycoats</u> All bonding liquids and keycoats must be allowed for in the rates <u>Setting out</u> Care shall be exercised in setting out the work, the preparation of templets and the checking of the detail drawings. All measurements shall be taken on the site where necessary and the full size setting out of each course shall be done at the yard so as to ensure the proper fitting of each stone Before putting any work in hand the contractor is to submit to the architect for his approval details of the manner in which he proposes to set out the slabs and joints in all wall facings, pavings, sills, treads, etc together with samples of grain or pattern matching <u>Bedding and jointing</u> Slate, marble, granite and other floor paving and wall linings are to be bedded solidly on the mortar thickness described and are to have tightly butt joints unless otherwise stated Where stonework is to be fixed with adhesive, the adhesive is to be suitable for and compatible with the type of stone. The contractor will be liable for any defects to the slate, marble and granite arising from the use of the adhesive		R	
Carried Forward Section No. 2 Bill No. 13 Tiling K-26-05-01		R	

[illegible]

Brought Forward			R
LOCATION DESCRIPTION [11] - Conference Centre [12] - Hotel [3] - External Works FLOOR TILING 500 x 500 x 10mm "UNION" or similar approved Glazed Porcelain tiles (Code : To be detailed later, use PC sum allocated) laid on 40mm thick smooth screed backing (screed measured elsewhere). Tiles to run in both directions jointed and flush pointed with 5mm tile grouting joints as per Architect's approval. Tiles to be fixed with TAL or equivalent tile adhesive or recommended adhesive and grouted with TAL or equivalent tile grout (colour : dove grey) with minimum 5mm expansion joints at perimeter, all structural expansion and construction joints and soft joints at maximum 3m centres internally and at 3m centres externally, in both directions. PC Allowance of R200.00 per m2, excluding VAT, for the site delivered tile material price only, Tenderers are to include the price as per the PC amount, plus delivery, labour, tile cement, grout, mark up, etc.			
1	On floors and landings 11 : 934 12 : 948 3 : 0	m2	1 882
2	On floors and landings laid to falls on ramps 11 : 0 12 : 12 3 : 0	m2	12
3	On treads cut to suit steps of stairs 11 : 0 12 : 20 3 : 0	m	20
4	On risers cut to suit steps of stairs 11 : 0 12 : 20 3 : 0	m	20
5	Skirting 150mm high 11 : 694 12 : 1104 3 : 0	m	1 798
Carried Forward			R
Section No. 2 Bill No. 13 Tiling K-26-05-01			

	Brought Forward			R	
	<u>300 x 300 mm UNION or similar approved Terrazzo-Terra Stone Grey Mosaic 98 block or equivalent, incorporates blocks 98 x 98mm laid on 40mm thick smooth screed backing (screed measured elsewhere). Tiles to run in both directions jointed and flush pointed with 5mm tile grouting joints as per Architect's approval. Tiles to be fixed with TAL or equivalent tile adhesive or recommended adhesive and grouted with TAL or equivalent tile grout (colour : dove grey) with minimum 5mm expansion joints at perimeter, all structural expansion and construction joints and soft joints at maximum 3m centres internally and at 3m centres externally, in both directions.</u>				
6	On floors and landings 11 : 118 12 : 0 3 : 0 <u>300 x 300mm Granito Grey or similar approved mosaic tiles (Cut into 50x50), fixed to wood floated cement and sand structural screed (elsewhere measured) with TAL or equivalent tile adhesive or recommended mosaic adhesive, with 3mm joints continuous in both directions grouted with TAL or equivalent tile grout (colour : to match tile or to be approved by architect) with minimum 5mm expansion joints at perimeter, all structural expansion and construction joints and soft joints at maximum 3m centres internally and at 3m centres externally, in both directions.</u>	m2	118		
7	On shower floors laid to falls 11 : 2 12 : 30 3 : 0 <u>WALL TILING</u>	m2	32		
	Carried Forward			R	
	Section No. 2 Bill No. 13 Tiling K-26-05-01				

	Brought Forward			R	
	<u>152 x 152 x 5mm white glazed ceramic wall tiles laid on 20mm plaster backing (plaster measured elsewhere). Tiles to run in both directions jointed and flush pointed with 5mm tile grouting joints as per Architect's approval. Tiles to be placed to the underside of the ceiling with TAL or equivalent tile adhesive mixed with TAL or equivalent bonding liquid in lieu of water with joints continuous in both directions and grouted with TAL or equivalent industrial epoxy grout (colour: dove grey). Excess grout on the surface to be cleaned with water as work proceeds, including soft joints at 2m centres.</u>				
8	On walls	m2	1 281		
	11 : 549 12 : 732 3 : 0				
9	On isolated walls (splash backs)	m2	2		
	11 : 2 12 : 0 3 : 0				
	<u>"Union Tiles" 230 x 73mm (Code: MVG1149 or equivalent) tiles, fixed to internal wall plaster (by others) backing with TAL or equivalent tile adhesive mixed with TAL or equivalent bonding liquid in lieu of water with joints continuous in both directions and grouted with TAL or equivalent industrial epoxy grout (colour: dove grey). Excess grout on the surface to be cleaned with water as work proceeds, including soft joints at 2m centres.</u>				
10	In bands (dado rail)	m	427		
	11 : 183 12 : 244 3 : 0				
	<u>SUNDRIES, DIVIDING STRIPS, ETC.</u>				
11	"Kirk Marketing" or equivalent Contractors stainless steel straight edge 10mm tile trim	m	2 225		
	11 : 877 12 : 1348 3 : 0				
	Carried Forward to Summary of Section No. 2				
	Section No. 2			R	
	Bill No. 13				
	Tiling				
	K-26-05-01				

Item No		Quantity	Rate	Amount
	<u>BILL 14</u> <u>PLUMBING AND DRAINAGE(PROVISIONAL)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition) and to the Supplementary Preambles which are incorporated in this Bill. <u>NOTE:</u> This document must be read and familiarised with in conjunction with the Architects drawings as annexed to this document and tenderers must make allowance in their rates for these specifications. No claims arising out of failure to do so will be entertained. <u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect. <u>General</u> Rates should include for design, supply and installation, including input from an approved wet services contractor, the detail of which will be required by the mechanical engineer. Rates should include for supply and installation, including input from an approved wet services contractor, the detail of which will be required by the mechanical engineer (wet services engineer). Tenderers must take note that the following items are only for tender purposes and will be used as basis and therefore the quantity might change. No claims in this regard will be entertained			
	Carried Forward Section No. 2 Bill No. 14 Plumbing & Drainage K-26-05-01		R	

Brought Forward <u>Concrete pipes:</u> Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings <u>Vitrified clay pipes:</u> Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings <u>uPVC pipes and fittings:</u> Soil, waste and vent pipes and fittings shall be solvent weld jointed <u>uPVC pressure pipes and fittings:</u> Pipes for water supply shall be of the class stated Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints <u>Copper pipes:</u> Pipes shall be hard drawn and half-hard pipes of the class stated. 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. Only compression fittings shall be used in walls or in ground		R	
Carried Forward Section No. 2 Bill No. 14 Plumbing & Drainage K-26-05-01		R	

Brought Forward <u>Fixing of pipes</u> 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 <u>Lead pipes and fittings</u> All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel <u>Reducing fittings</u> Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained <u>Wire gratings</u> Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings <u>Excavations</u> No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling "Soft rock" and "hard rock" shall be as defined in "Earthworks" <u>Laying, backfilling, bedding, etc. of pipes</u> Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions		R	
Carried Forward Section No. 2 Bill No. 14 Plumbing & Drainage K-26-05-01		R	

Brought Forward Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding <u>Flush pans</u> Flush pans shall have straight or side outlets and "P" or "S" traps as necessary <u>Stainless steelbasins, sinks, wash troughs, urinals, etc.</u> Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable <u>Waste unions</u> Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings <u>"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.</u> Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc <u>Joint Sealants</u> The contractor shall allow and include all the necessary joint sealants between the installation and other different finishes to the satisfaction of the principal agent.		R	
Carried Forward Section No. 2 Bill No. 14 Plumbing & Drainage K-26-05-01		R	

Brought Forward <u>Protection of works</u> Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the principal agent and that tenderers should allow in their rates for such protection.			R	
Carried Forward Section No. 2 Bill No. 14 Plumbing & Drainage K-26-05-01			R	

Brought Forward			R
LOCATION DESCRIPTION			
[11] - Conference Centre			
[12] - Hotel			
[3] - External Works			
RAINWATER DISPOSAL (PLUVIA)			
Rainwater system			
HDPE pipes, including all butt welded joints, to manufacturers specification			
1	125mm Diameter pipes 11 : 28 12 : 56 3 : 0	m	84
Extra over HDPE pipes for fittings, including all butt welds			
2	125mm Bend 45° 11 : 16 12 : 32 3 : 0	No	48
3	125mm Electroweld sleeve coupling 11 : 16 12 : 32 3 : 0	No	48
Sundries			
4	125mm Adjustable pipe bracket, with G1/2" threaded socket 11 : 24 12 : 48 3 : 0	No	72
5	125mm Electrowelding tape for anchor bracket 11 : 24 12 : 48 3 : 0	No	72
Roof outlets			
6	Pluvia roof outlet with a capacity of 9 l/s with and including universal contact sheet 11 : 8 12 : 16 3 : 0	No	24
7	Rainwater Hopper Box 300 x 200 x 200mm for 160mm downpipes 11 : 8 12 : 16 3 : 0	No	24
8	760 x 300 x 120mm Precast concrete rainwater channel stop end (20kg) 11 : 8 12 : 16 3 : 0	No	24
SOIL DRAINAGE			
Carried Forward			R
Section No. 2 Bill No. 14 Plumbing & Drainage K-26-05-01			

Brought Forward			R
<u>Work in connection with existing:</u>			
9	Search, locate, excavate and cut into existing sewer manhole for and connect new 160mm diameter drain pipe, including re-working manhole, new half-round channels and making good to manhole, etc. 11 : 1 12 : 2 3 : 0	No 3	
<u>TAPS, VALVES, ETC., INCLUDING COUPLING TO PIPES AND/OR FITTINGS</u>			
<u>"Cobra" or equally approved:</u>			
10	Pillar taps as "cobra- No.111-15" with star handles - 15mm (hot and cold water). 11 : 7 12 : 30 3 : 0	No 37	
11	15mm Elbow action medical C.P. mixer, wall type with bent connections at 178mm fixed centre distance and curved swan neck swivel outlets as "Cobra 515/055-21 CPA" (hot and cold water). 11 : 2 12 : 4 3 : 0	No 6	
12	Pillar Type Sink mixer as "Cobra Star" or equivalent 15mm one tap hole sink mixer with over-arm swivel outlet, mounting kit and angle valves (Code: 296 and S-041/10 or equivalent) 11 : 2 12 : 2 3 : 0	No 4	
13	Grohe or similar approved angle valve 1/2x3/8 (Colour: Chrome, Code: FP22 1700M-9QZ/ 221700M or equivalent) 11 : 34 12 : 106 3 : 0	No 140	
<u>WASTE UNIONS, ETC.</u>			
<u>"Tivoli", "Cobra" or equally approved:</u>			
14	"Cobra 301-32" 1-1/4" basin waste-slotted with back not,plug chain and stay. 11 : 9 12 : 34 3 : 0	No 43	
15	Cobra Watertech 323CP Shower Grating 75mm with 1 1/2" male inlet Shower grating Ø75 mm shower grating 1 1/2" male inlet Chrome plated flange. 11 : 2 12 : 30 3 : 0	No 32	
<u>TRAPS, ETC</u>			
Carried Forward			R
Section No. 2 Bill No. 14 Plumbing & Drainage K-26-05-01			

	Brought Forward			R	
	<u>"Geberit" or equivalent:</u>				
16	Geberit bottle trap for wash basin with horizontal outlet (Colour: Chrome, Code: 500 079 001) or equivalent 11 : 9 12 : 34 3 : 0	No	43		
17	"Cobra" or equivalent Square Shower Trap with Shower P-trap, Outlet connection and Square Grating 11 : 2 12 : 30 3 : 0	No	32		
18	Urinal trap code 152.983.00.1 or similar approved 11 : 3 12 : 0 3 : 0	No	3		
	<u>TESTING</u>				
19	Provide all necessary water, etc., for and test the whole of the plumbing services, sanitary fittings, pumps, etc., and in stages as deemed necessary, including chlorination, complete to the satisfaction of the architect and the local authority, replace any defective work free of charge, including any necessary re-testing and leave perfect on completion. 11 : 0.00 12 : 0.00 3 : 1.00	Item	1.00		
20	Allow for testing and commissioning the whole of the plumbing services, sanitary fittings, pumps, etc., including any necessary re-setting, etc., for optimal performance of the entire system to the satisfaction of the architect for the duration of the contract, maintenance and guarantee period.	Item	1.00		
	<u>SANITARY FITTINGS</u>				
	<u>Rates for all sanitary fittings are to allow for the supply, deliver and installation of all fittings, inclusive of all sundry materials required for the installation, complete as per sanitary schedules on the drawings (pipework elsewhere measured).</u>				
	Water Closet				
21	Vaal Sanitary Ware WC of white vitreous e as "Vaal Daisy" (Code: 751453 or similar approved) semi-closed coupled 90deg outlet open rim wash down pan code (772403WH or similar approved) complete with lid fitments and flush pipe elbow OR equally approved.. 11 : 11 12 : 30 3 : 0	No	41		
	Carried Forward			R	
	Section No. 2 Bill No. 14 Plumbing & Drainage K-26-05-01				

Brought Forward				R
22	W.C of white vitreous as PEARL C/W RAILS PARAPLEGIC SEMI CLOSE COUPLED SUITE (Code: 751453 or similar approved) semi-closed coupled 90deg outlet open rim wash down pan (Code 730103WH) complete with lid fitments and flush pipe elbow OR equally approved. WC fitments to be installed as per manufacturer's specifications. 11 : 1 12 : 4 3 : 0 Wash hand basin	No	5	
23	White vitreous china 510 x 405mm with two tape holes "VAAL Hibiscus (code 7023)" bolted to the wall with 3No. 10mm bolts (Code 8448ZO) or similar approved 11 : 7 12 : 30 3 : 0	No	37	
24	Bracket type basin of white vitreous china size 510x400mm as rectangular 'VAAL SOLA 510' Medical Basin with no tap holes, overflow or chain stay holes fixed with two concealed wall brackets (Code :703700WH) or similar approved 11 : 2 12 : 4 3 : 0 Urinal	No	6	
25	ME by Starck Urinal Rimless, Flush principle: extractor, Flush construction: n/a, Inlet supply position: Top, Incl. mounting material, Outlet drain: vertical, horizontal, Concealed outlet 11 : 3 12 : 0 3 : 0 Sink	No	3	
26	Franke or similar approved Model Project line PLN611 Single Bowl Sink 800 x 460 x 140mm manufactured from Grade 304 (18/10) Stainless Steel Sink with a pressed bowl 340L x 370W x 140D mm supplied with 38mm waste outlet. 11 : 2 12 : 2 3 : 0 Slop Hopper	No	4	
Carried Forward				R
Section No. 2 Bill No. 14 Plumbing & Drainage K-26-05-01				

	Brought Forward			R	
27	Franke or similar approved model LDS drip sink 600x500x258mm deep manufactured from : Grade 304 (18/10) stainless steel 0,9mm thick and with a 40mm waste outlet. Unit fitted with stainless steel hinged bucket grid manufactured from 10mm stainless steel round bar and a pair of stainless-steel Eagle brackets. Unit fixed to wall 600mm high from the top of the front apron to the finish floor level with 4 off anchor bolts. 2630026 or similar approved - LDS DRIP SINK 600x500x258mm 2120128 or equivalent - TAP BRACKET 11 : 1 12 : 0 3 : 0 Showers	No	1		
28	Shower head - Cobra Watertech 075SQ-15 square single function with balljoint connector & 1/2 female inlet shower head supplied with chrome plated 200x145mm square rose with antilime single function classic spray nipple. 11 : 2 12 : 30 3 : 0	No	32		
29	Diverter - Cobrawatertec DA-061 Damara 4 way diverter, 2x3/4" FI, 1x1/2" +1 X 3/4" female outlets Diverter, Exposed parts 2x3/4" female inlets, 1 x 1/2" female shower outlet & 1 x 3/4" female bath outlet DZR Brass, Chrome plated. 11 : 2 12 : 30 3 : 0 Heating	No	32		
30	310 x 180 x 460 mm White Epoxy Powder Coated ZIP HydroBoil 7,5 litre instant boiling water unit with White Epoxy Powder Coated outer case, and a two-way tap, complete with twin-chamber technology. Unit to be installed in accordance with manufacturer's installation instruction manual. 11 : 0 12 : 2 3 : 0	No	2		
Carried Forward to Summary of Section No. 2 Section No. 2 Bill No. 14 Plumbing & Drainage K-26-05-01					R

Item No		Quantity	Rate	Amount
	<u>BILL 15</u> <u>ELECTRICAL WORK (PROVISIONAL)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition) and to the Supplementary Preambles which are incorporated in this Bill. <u>NOTE:</u> This document must be read and familiarised with in conjunction with the Architects drawings as annexed to this document and tenderers must make allowance in their rates for these specifications. No claims arising out of failure to do so will be entertained. <u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect. <u>General</u> Tenderers must take note that the following items are only for tender purposes and will be used as basis and therefore the quantity might change. No claims in this regard will be entertained <u>Protection of works</u> Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the principal agent and that tenderers should allow in their rates for such protection.			
	Carried Forward Section No. 2 Bill No. 15 Electrical Work K-26-05-01		R	

[illegible]

Item No		Quantity	Rate	Amount
	<u>BILL 16</u> <u>MECHANICAL WORK (PROVISIONAL)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition) and to the Supplementary Preambles which are incorporated in this Bill. <u>NOTE:</u> This document must be read and familiarised with in conjunction with the Architects drawings as annexed to this document and tenderers must make allowance in their rates for these specifications. No claims arising out of failure to do so will be entertained. <u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect. <u>General</u> Tenderers must take note that the following items are only for tender purposes and will be used as basis and therefore the quantity might change. No claims in this regard will be entertained <u>Protection of works</u> Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the principal agent and that tenderers should allow in their rates for such protection.			
	Carried Forward Section No. 2 Bill No. 16 Mechanical Work K-26-05-01		R	

[illegible]

Item No		Quantity	Rate	Amount
	<u>BILL 17</u> <u>GLAZING (PROVISIONAL)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition) and to the Supplementary Preambles which are incorporated in this Bill. <u>NOTE:</u> This document must be read and familiarised with in conjunction with the Architects drawings as annexed to this document and tenderers must make allowance in their rates for these specifications. No claims arising out of failure to do so will be entertained.			
	Carried Forward Section No. 2 Bill No. 17 Glazing K-26-05-01		R	

Brought Forward				R
LOCATION DESCRIPTION				
[11] - Conference Centre				
[12] - Hotel				
[3] - External Works				
<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>				
<u>6mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete, etc. and or as stated on the below measured items</u>				
1	800 x 600mm silver float glass mirror copper backed fixed with chrome plated screw heads at corners, with polished edges, fitted above and centred to hand wash basin. Fitted flush with tiling onto wood-trowelled, plastered wall with manufacturer approved, double-sided adhesive tape. Or similar approved by architect.	No	42	
	11 : 12 12 : 30 3 : 0			
Carried Forward to Summary of Section No. 2				
Section No. 2				
Bill No. 17				
Glazing				
K-26-05-01				
				R

Item No		Quantity	Rate	Amount
	<u>BILL 18</u> <u>PAINTWORK (PROVISIONAL)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill. <u>NOTE:</u> This document must be read and familiarised with in conjunction with the Architects drawings as annexed to this document and tenderers must make allowance in their rates for these specifications. No claims arising out of failure to do so will be entertained. <u>SUPPLEMENTARY PREAMBLES</u> <u>Protection of works</u> Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the principal agent and that tenderers should allow in their rates for such protection. <u>Paint specification</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect. Descriptions of paintwork including undercoats shall be deemed to include undercoats as recommended by the manufacturer of the finishing coats			
	<u>LOCATION DESCRIPTION</u> [11] - Conference Centre [12] - Hotel [3] - External Works Carried Forward Section No. 2 Bill No. 18 Paintwork K-26-05-01		R	

	Brought Forward			R	
	<u>PAINTWORK, ETC. TO NEW WORK ON:</u> <u>FLOATED PLASTER SURFACES</u> <u>One coat Primer "Plascon" or equivalent</u> <u>'Professional Gypsum & Plaster Primer (PP700).</u> <u>Two coats Low odour premium quality plush matt</u> <u>wall paint with stain resistance and washability</u> <u>"Plascon" or equivalent 'Double Velvet'.</u> <u>Manufacturers details and guidelines on surface</u> <u>preparation to be adhered to in order to obtain paint</u> <u>guarantee. Colour code: "Plascon" or equivalent</u> <u>'Essential Collection': 'Mandarin Tusk' GR- Y04 ,</u> <u>Colour: Light Grey)</u>				
1	Internal walls 11 : 3326 12 : 4334 3 : 0	m2	7 660		
2	Internal walls not exceeding 300mm wide 11 : 635 12 : 718 3 : 0	m	1 353		
	<u>UV Resistant water-based paint. Two coats</u> <u>"Plascon" or equivalent 'Wall & All'. Refer to</u> <u>specification sheets for surface preparation and</u> <u>application. One coat Primer "Plascon" or</u> <u>equivalent Gypsum & Plaster Primer (PP700) and</u> <u>additional one coat "Plascon" or equivalent</u> <u>Professional Waterproofing compound (PWC520) for</u> <u>ledges & parapets. Manufacturer's details to be</u> <u>adhered to in order to obtain paint guarantee. Spec:</u> <u>"Plascon or equivalent Crete Shore" 52, Colour:</u> <u>Medium Grey</u>				
3	External walls 11 : 266 12 : 280 3 : 0	m2	546		
	Carried Forward			R	
	Section No. 2 Bill No. 18 Paintwork K-26-05-01				

		Brought Forward			R	
		UV Resistant water-based paint. Two coats "Plascon" or equivalent 'Wall & All'. Refer to specification sheets for surface preparation and application. One coat Primer "Plascon" or equivalent Gypsum & Plaster Primer (PP700) and additional one coat "Plascon" or equivalent Professional Waterproofing compound (PWC520) for ledges & parapets. Manufacturer's details to be adhered to in order to obtain paint guarantee. Spec: "Plascon or equivalent Addo Skin" Colour: Dark Grey				
4	External walls	m2	546			
	11 : 266 12 : 280 3 : 0					
5	External walls not exceeding 300mm wide	m	1 182			
	11 : 464 12 : 718 3 : 0					
	<u>PLASTER BOARD SURFACES WITH</u>					
	<u>One coat Primer: Professional Water Based Gypsum Sealer (PGS1), Two coats: Professional Super Matt (PEM 900) Colour: Brilliant White or equivalent</u>					
6	Internal bulkheads and ceilings	m2	118			
	11 : 118 12 : 0 3 : 0					
7	Partitions	m2	83			
	11 : 83 12 : 0 3 : 0					
	<u>SMOOTH CONCRETE SURFACES WITH</u>					
	<u>Ensure surfaces are clean, dry and sound. Moisture content not more than 8% measured on a doser hygrometer bd2 scale (or equivalent) before painting. Apply either universal undercoat or professional undercoat to bare and repaired areas. Allow 16 hours to dry or apply multisurface primer to bare and repaired areas. Allow 2 hours to dry. Finish with two coats pure acrylic emulsion sheen paint with 2 hours drying time between coats, for a maintenance cycle of 12 years (Colour: Brilliant White)</u>					
8	Internal concrete soffits	m2	146			
	11 : 0 12 : 146 3 : 0					
		Carried Forward			R	
	Section No. 2 Bill No. 18 Paintwork K-26-05-01					

	Brought Forward			R	
	<u>METAL SURFACES WITH</u>				
	<u>Plascon or equivalent plascothane polyurethane enamel to exterior new mild steel. Surface to be clean and dry. Remove surface contaminants using metalcare aquasolv Degreaser (gr 1) with bristle brush or brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to Iso 8501 - 01:1988 - sa2½ or by hand/mechanical wire brushing to st3 of the same standard. Allow to dry Completely and prime within 4 hours of cleaning. Prime with one coat epiwash chromate free primer (aw 1255) with an overcoating time of 4 hours and finish with two coats plascothane polyurethane enamel (up) with 2 Hours drying time between coats, for a maintenance cycle of 6 years in a c1 - inland environment. Final paint Specification and colours to be confirmed by client.</u>				
9	Door frames 11 : 27 12 : 73 3 : 0	m2	99		
	<u>WOOD SURFACES WITH</u>				
	<u>Primed & painted with 2 coats "plascon" or equivalent paint (canterbury hills gr-y12) applied strictly according to manufacturer's guidelines & specifications.</u>				
10	Doors 11 : 80 12 : 220 3 : 0	m2	300		
11	Door surfaces not exceeding 300mm wide 11 : 135 12 : 368 3 : 0	m	502		
	Carried Forward to Summary of Section No. 2			R	
	Section No. 2 Bill No. 18 Paintwork K-26-05-01				

Item No		Quantity	Rate	Amount
	<u>BILL 19</u> <u>BUILDER'S WORK IN CONNECTION WITH SERVICES (PROVISIONAL)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill. <u>NOTE:</u> This document must be read and familiarised with in conjunction with the Architects drawings as annexed to this document and tenderers must make allowance in their rates for these specifications. No claims arising out of failure to do so will be entertained. <u>SUPPLEMENTARY PREAMBLES</u> <u>Protection of works</u> Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the principal agent and that tenderers should allow in their rates for such protection.			
	Carried Forward Section No. 2 Bill No. 19 Builders' work in connection with services K-26-05-01		R	

Brought Forward			R
LOCATION DESCRIPTION			
[11] - Conference Centre			
[12] - Hotel			
[3] - External Works			
<u>SLEEVE PIPES, ETC.</u>			
<u>Metal lathing/ chicken mesh wire or equally approved</u>			
1	Supply & install 100mm wide metal lathing/ chicken mesh wire fixed to chased walls.	m	135
	11 : 45 12 : 90 3 : 0		
2	Supply & install 100mm wide metal lathing/ chicken mesh wire to window openings.	m	750
	11 : 250 12 : 500 3 : 0		
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 19			
Builders' work in connection with services			
K-26-05-01			

Bill No	SECTION SUMMARY - Builders Work	Page No	Amount
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2	Concrete, Formwork & Reinforcement	92	
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4	Masonry	101	
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8	Ceilings and Partitions	120	
9	Ironmongery	131	
10	Structural Steel	138	
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15	Electrical Work	173	
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Carried to Final Summary			
Section No. 2			
K-26-05-01			

Item No		Quantity	Rate	Amount
	<u>BILL 1</u> <u>EXTERNAL CIVIL WORKS (PROVISIONAL)</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill. <u>NOTE:</u> This document must be read and familiarised with in conjunction with the Architects' & Engineers' drawings as annexed to this document and tenderers must make allowance in their rates for these specifications. No claims arising out of failure to do so will be entertained. These bills are measured based on the Standard System of Measuring Builder's Work 1999 Sixth Edition (Revised). No claims will be entertained for items not covered by the afore mentioned document			
	Carried Forward Section No. 3 Bill No. 1 External Civil Works K-26-05-01		R	

Brought Forward The contractor is advised to be in constant communication with the quantity surveyor during the course of the tender process and/or project with regards to the following: 1. Tender drawings versus the Tender bills of quantities - Should there be a discrepancy between the tender drawings and the bills of quantities, the contractor shall notify the quantity surveyor immediately. 2. Construction drawings versus the Tender bills of quantities - Should there be a discrepancy between the construction drawings and the bills of quantities, the contractor shall notify the quantity surveyor immediately. 3. Site Instructions - The quantity surveyor together with the principal agent shall be notified immediately of any site instructions or potential costs in accordance to the contract. No claims or costs arising out of not adhering to the above will be entertained. <u>SUPPLEMENTARY PREAMBLES</u> <u>Definitions</u> The descriptions and units of quantities below are measured generally in terms to suit this project. Where these descriptions and units are in conflict with the payment provisions of SABS 1200, the descriptions and units as measured below shall apply and no claims in this regard shall be entertained. Should the tenderer have any queries, he should clarify same with either the engineer or quantity surveyor prior to submission of tender. Silence on any issue will be deemed to be acceptance thereof. Carried Forward Section No. 3 Bill No. 1 External Civil Works K-26-05-01		R	
		R	

Brought Forward <u>Blasting</u> No Guarantee is given or implied that blasting will be allowed, but should this method of removal be necessary and permissible, the contractor shall assume all responsibility and comply with all the conditions laid down in the Government and Local Government regulation and it should allow for current construction work on the neighbouring property. <u>Dump site</u> Where "remove from" or "spoil" occurs in items it shall include for all loading, offloading and carting away from the site to a suitable dumping site to be found by the contractor and the contractor shall pay all fees, etc in this regard. <u>Carting away of excavated material</u> 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. <u>Imported filling</u> Descriptions of imported filling material shall be deemed to include loading material onto trucks from borrow pits or suppliers and hauled and deposited onto the site. <u>Protection against termites and ants</u> The ground under surface beds, trenches & holes, shall be poisoned with an approved registered soil poisoning material of the chlordane or aldrin type mixed with water and applied at the rate of not less than 5 litres of solution per square metre, care being taken to apply the solution uniformly over the whole surface. The concentration of the solution shall be in accordance with the manufacturer's instructions and to the approval of the Representative / Agent. The poison and poisoning shall comply with SABS 0124.		R	
Carried Forward Section No. 3 Bill No. 1 External Civil Works K-26-05-01		R	

Brought Forward <u>Bulking</u> No allowance has been made in the measurements for bulking and no claims in this regard shall be entertained. <u>Project specifications</u> Refer to the Project Specifications on the Engineer's drawings. <u>Classes of excavation</u> Classes 3.1.2(b), (d) and (e) will be deemed not to apply to this contract. All excavations will be classified by the Engineer as: <i>Soft and intermediate excavation as soft excavation</i> <i>Hard rock excavations, which will include unweathered boulders exceeding 20m³, and will also include reinforced concrete footing which, in the Engineer's opinion, cannot be removed as part of normal excavations.</i> The contractor shall notify the engineer and quantity surveyor immediately on the classification of hard rock, thereafter, all parties shall agree on the quantification method and evidence keeping of the hard rock.		R	
Carried Forward Section No. 3 Bill No. 1 External Civil Works K-26-05-01		R	

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Item No		Quantity	Rate	Amount
	<u>BILL 1</u>			
	<u>PROVISIONAL SUMS, ETC</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>CASH DISCOUNT</u>			
	The following provisional amounts are NET and represent the NET COST of the work described. The contractor shall not be entitled to any discount, percentage or allowance whatsoever on the value of any provisional amount other than the priced value for profit and attendance as provided for. The provisional amounts may be deducted in whole or in part from the contract and are subject to adjustment upon completion			
	<u>PROVISIONAL SUMS AND PRIME COST AMOUNTS</u>			
	These provisional amounts contain materials to be supplied only or to be supplied and installed by specialists, or work to be executed by specialists or other persons who are selected by the contractor in consultation with the architect. Selected sub-contractors shall receive no other rights or privileges other than the rights and privileges enjoyed by any domestic sub contractor			
	<u>BUDGETARY ALLOWANCES</u>			
	This work will be priced and measured in accordance with these bills of quantities			
	<u>SOLAR SHADE AND ALUMINIUM CLADDING INSTALLATION</u>			
1	Allow the sum of R500 000.00 Five Hundred Thousand for the Solar Shade Installation.	Item 1.00	500 000.00	500 000.00
2	Profit and attendance on last if required		%	
	Carried Forward		R	
	Section No. 4 Bill No. 1 Provisional sums K-26-05-01			

	Brought Forward			R	
	<u>JOINERY INSTALLATION</u>				
3	Allow the sum of R500 000.00 Five Hundred Thousand for the Joinery Installation.	Item	1.00	500 000.00	500 000.00
4	Profit and attendance on last if required			%	
	<u>SIGNAGE INSTALLATION</u>				
5	Allow the sum of R100 000.00 One Hundred Thousand for the Signage Installation.	Item	1.00	100 000.00	100 000.00
6	Profit and attendance on last if required			%	
	<u>SOCIAL AND ECONOMIC DELIVERABLES</u>				
7	Allow the sum of R1 100 000.00 One Million One Hundred Thousand for the Administration of the Social and Economic Deliverables.	Item	1.00	1 100 000.00	1 100 000.00
8	Profit and attendance on last if required			%	
	<u>ASBESTOS REMOVAL</u>				
9	Allow the sum of R1 500 000.00 One Million Five Hundred Thousand for the Asbestos Removal.	Item	1.00	1 500 000.00	1 500 000.00
10	Profit and attendance on last if required			%	
	<u>DEMOLITIONS</u>				
11	Allow the sum of R400 000.00 Four Hundred Thousand for the Asbestos Removal.	Item	1.00	400 000.00	400 000.00
12	Profit and attendance on last if required			%	
	<u>BUDGETARY ALLOWANCES</u>				
13	Allow the sum of R250 000.00 Two Hundred and Fifty Thousand for the Architectural Features.	Item	1.00	250 000.00	250 000.00
14	Allow the sum of R184 000.00 One Hundred and Eighty Four Thousand for the CLO Remuneration Costs.	Item	1.00	184 000.00	184 000.00
15	Allow the sum of R450 000.00 Four Hundred and Fifty Thousand for the Fencing Installation.	Item	1.00	450 000.00	450 000.00
	Carried to Final Summary			R	
	Section No. 4				
	Bill No. 1				
	Provisional sums				
	K-26-05-01				

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