

COMPREHENSIVE RENOVATION OF WATERBORNE TOILETS AND OTHER RELATED SERVICES FOR JAMELA AND MASOMBUKA AT SIYABUSWA INDUSTRIAL PARK IN DR JS MOROKA LOCAL MUNICIPALITY, NKANGALA DISTRICT IN THE MPUMALANGA PROVINCE					
DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
<p>SECTION NO. 1</p> <p>BILL NO 1</p> <p>PRELIMINARIES</p> <p>BUILDING AGREEMENT AND PRELIMINARIES</p> <p>The JBCC Series 2000 Principal Building Agreement (July 2007 edition 5.0, reprint 1) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The JBCC Principal Building Agreement Contract Data EC and the JBCC Principal Building Agreement Contract Data CE form an integral part of this agreement</p> <p>The ASAQS Preliminaries (November 2007 edition) published by the Association of South African Quantity Surveyors for use with the said JBCC Principal Building Agreement shall be deemed to be incorporated in these bills of quantities</p> <p>Contractors are referred to the abovementioned documents for the intent and meaning of each clause thereof</p> <p>These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this agreement such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the abovementioned documents</p> <p>Where any item is not relevant to this specific agreement such item is marked N/A (signifying "not applicable")</p> <p>PREAMBLES FOR TRADES</p> <p>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</p> <p>Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles</p> <p>The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles</p> <p>PRICING OF PRELIMINARIES</p> <p>Should the contractor select Option A in terms of subclause 3.2.1 in the Contract Data - Contractor to Employer (CE) for the purpose of adjustment of these preliminaries, the amount entered into the amount column in these preliminaries is to be divided into one or more of the three categories provided namely Fixed (F), Value Related (V) and Time Related (T)</p> <p>SECTION A: PRINCIPAL BUILDING AGREEMENT</p> <p>Definitions (A1)</p> <p>Clause 1.0 - Definitions and interpretation The measuring system used for the preparation of the bills of quantities is the Standard System of Measuring Building Work (sixth edition, revised 1999) published by the Association of South African Quantity Surveyors [1.1] F:..... V:..... T:.....</p> <p>Objective and preparation (A2 - A14)</p> <p>Clause 2.0 - Offer acceptance and performance obligations F:..... V:..... T:.....</p> <p>Clause 3.0 - Documents Refer to Annexure A for a list of the contract drawings Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT) [3.5] The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any [3.9] F:..... V:..... T:.....</p> <p>Clause 4.0 - Design responsibility F:..... V:..... T:.....</p> <p>Clause 5.0 - Employer's agents F:..... V:..... T:.....</p> <p>Clause 6.0 - Contractor's site representative F:..... V:..... T:.....</p>	Item	1		R	-
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Clause 7.0 - Compliance with laws and regulations Without limiting the generality of the provisions of clause 7.0, the contractor's attention is drawn to the provisions of the Construction Regulations, 2003 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 specification [7.1] F:..... V:..... T:.....	Item			
Clause 8.0 - Works risk F:..... V:..... T:.....	Item			
Clause 9.0 - Indemnities F:..... V:..... T:.....	Item			
Clause 10.0 - General insurances F:..... V:..... T:.....	Item			
Clause 11.0 - Special insurances F:..... V:..... T:.....	Item			
Clause 12.0 - Effecting insurances F:..... V:..... T:.....	Item			
Clause 13.0 - Assignment F:..... V:..... T:.....	Item			
Clause 14.0 - Security F:..... V:..... T:.....	Item			
Execution (A15 - A23)				
Clause 15.0 - Preparation for and execution of the works F:..... V:..... T:.....	Item			
Clause 16.0 - Site and access Certain areas will be occupied during the construction period and the contractor must execute the works with as little noise and disturbance as possible to the occupants. [16.6] F:..... V:..... T:.....	Item			
Clause 17.0 - Contract instructions F:..... V:..... T:.....	Item			
Clause 18.0 -Setting out of the works The contractor shall notify the principal agent if any encroachment of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments [18.1] F:..... V:..... T:.....	Item			
Clause 19.0 - Temporary works and plant Clause 19.1.1 - Enclosure of the works F:..... V:..... T:.....	Item			
Clause 19.1.2 - Office accommodation - provide suitable office accommodation for site meetings with tables and chairs for ten people F:..... V:..... T:.....	Item			
Clause 20.0 - Nominated subcontractors Refer to the provisions on general attendance hereinafter F:..... V:..... T:.....	Item			
Clause 21.0 - Selected subcontractors General attendance of n/s subcontractors for pricing by the contractor shall be in accordance with the n/s agreement. Notwithstanding this provision, general attendance shall be deemed to include for the contractor to provide free of charge to any n/s subcontractor such scaffolding as may reasonably be required by such n/s subcontractor for the execution of the relevant subcontract work F:..... V:..... T:.....	Item			
Clause 22.0 - Employer's direct contractors F:..... V:..... T:.....	Item			
Clause 23.0 - Contractor's domestic subcontractors F:..... V:..... T:.....	Item			
Completion (A24 - A30)				
Clause 24.0 - Practical completion F:..... V:..... T:.....	Item			
Clause 25.0 - Works completion F:..... V:..... T:.....	Item			
Clause 26.0 - Final completion F:..... V:..... T:.....	Item			
Clause 27.0 - Latent defects liability period F:..... V:..... T:.....	Item			
Clause 28.0 - Sectional completion F:..... V:..... T:.....	Item			
Clause 29.0 - Revision of date for practical completion The removal and replacement of materials and/or workmanship which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value (Clause 29.3) F:..... V:..... T:.....	Item			

Clause 30.0 - Penalty for late or non-completion: 0.05% of the Contract Amount inclusive of Value Added Tax per Calendar day F:..... V:..... T:.....	Item			
Payment (A31 - A35)				
Clause 31.0 - Interim payment Materials and goods stored off site shall not be included in the amount authorised for payment [31.6.5] F:..... V:..... T:.....	Item			
Clause 32.0 - Adjustment to the contract value - NOT APPLICABLEAll fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor [32.13]Where prices are submitted by the contractor or n/s subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the agreement and notwithstanding the fact that such prices may be used in an interim payment certificate there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the certificate of final completion, it shall be in writingThe 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 for loss of profit shall not be entertained [32.2] F:..... V:..... T:.....	N/A			
Clause 33.0 - Recovery of expense and loss F:..... V:..... T:.....	Item			
Clause 34.0 - Final account and final payment F:..... V:..... T:.....	Item			
Clause 35.0 - Payment to other parties F:..... V:..... T:.....	Item			
Termination (A36 - A39)				
Clause 36.0 - Termination by employer - contractor's default F:..... V:..... T:.....	Item			
Clause 37.0 - Termination by employer - loss and damage F:..... V:..... T:.....	Item			
Clause 38.0 - Termination by contractor - employer's default F:..... V:..... T:.....	Item			
Clause 39.0 - Termination - cessation of the works F:..... V:..... T:.....	Item			
Dispute (A40)				
Clause 40.0 - Settlement of disputes F:..... V:..... T:.....	Item			
Contract variables (A41 - A42)				
Clause 41.0 - Post tender provisions The contractor is to complete and submit with his tender the JBCC Principal Building Agreement Contract Data CE F:..... V:..... T:.....	Item			
Clause 42.0 - Contractual agreement The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties F:..... V:..... T:.....	Item			
SECTION B: PRELIMINARIES				
Definitions and interpretation (B1)				
Clause 1.0 - Definitions and interpretation F:..... V:..... T:.....	Item			
Documents (B2)				
Clause 2.1 - Checking of documents F:..... V:..... T:.....	Item			
Clause 2.2 - Provisional bills of quantities F:..... V:..... T:.....	Item			
Clause 2.3 - Availability of construction documentation The budgetary allowances and selected subcontract amounts allocated for subsequent trades included in this agreement will be separately procured, based on multiple procurement of selected subcontractors during the construction period F:..... V:..... T:.....	Item			
Previous work and adjoining properties (B3)				
Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item			
Clause 3.2 - Previous work - defects F:..... V:..... T:.....	Item			
Clause 3.3 - Inspection of adjoining properties F:..... V:..... T:.....	Item			
Samples, shop drawings and manufacturer's instructions (B4)				

Clause 4.1 - Samples of materials F:..... V:..... T:.....	Item			
Clause 4.2 - Workmanship samples F:..... V:..... T:.....	Item			
Clause 4.3 - Shop drawings F:..... V:..... T:.....	Item			
Clause 4.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....	Item			
Deposits and fees (B5)				
Clause 5.1 - Deposits and fees F:..... V:..... T:.....	Item			
Temporary services (B6)				
Clause 6.1 - Water F:..... V:..... T:.....	Item			
Clause 6.2 - Electricity F:..... V:..... T:.....	Item			
Clause 6.3 - Telecommunication facilities F:..... V:..... T:.....	Item			
Clause 6.4 - Ablution facilities F:..... V:..... T:.....	Item			
Prime cost amounts (B7)				
Clause 7.1 - Responsibility for prime cost amounts F:..... V:..... T:.....	Item			
Special attendance on n/s subcontractors (B8)				
Clause 8.1 - Special attendance F:..... V:..... T:.....	Item			
General (B9)				
Clause 9.1 - Protection of the works F:..... V:..... T:.....	Item			
Clause 9.2 - Protection/isolation of existing/ occupied works Certain areas of the sitewill be occupied during the construction period (see item 4 page 14) F:..... V:..... T:.....	Item			
Clause 9.3 - Security of the works F:..... V:..... T:.....	Item			
Clause 9.4 - Notice before covering work F:..... V:..... T:.....	Item			
Clause 9.5 - Disturbance F:..... V:..... T:.....	Item			
Clause 9.6 - Environmental disturbance F:..... V:..... T:.....	Item			
Clause 9.7 - Works cleaning and clearing F:..... V:..... T:.....	Item			
Clause 9.8 - Vermin F:..... V:..... T:.....	Item			
Caluse 9.9 - Overhand work F:..... V:..... T:.....	Item			
Schedule of variables (B10)				
Information necessary for elections and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that no specific requirements are expected or that the clause is not relevant to this specific contract				
10.1 - Provisional bills of quantities [2.2] The quantities are provisional No				
10.2 - Availability of construction documentation [2.3] Construction documentation is complete Yes				
10.3 - Previous work - dimensional accuracy [3.1]				
10.4 - Previous work - defects [3.2]				
10.5 - Inspection of adjoining properties [3.3]				
10.6 - Water [7.2] Option A (by contractor) Yes Option B (by employer - free of charge) No Option C (by employer - metered)				
10.7 - Electricity [7.3] Option A (by contractor) Yes Option B (by employer - free of charge)				
10.8 - Telecommunications [7.4] Telephone Yes				
10.9 - Ablution facilities [7.5] Option A (by contractor) Yes Option B (by employer)				

10.10 - Protection of the works [9.1]				
10.11 - Protection/isolation of existing/sectionally occupied works [9.2] Protection/isolation is required No				
10.12 - Disturbance [9.5]				
10.13 - Environmental disturbance [9.6]				
SECTION C: SPECIFIC PRELIMINARIES				
Any special items to meet the particular circumstances of a specific project are embodied in this section. Where required for an aspect of the works to be executed according to a design by a consulting engineer, a recital of the headings to the individual clauses of the JBCC Engineering General Conditions are included				
Black economic empowerment and training F:..... V:..... T:.....	Item			
Proprietary branded products F:..... V:..... T:.....	Item			
The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative				
Contract instructions F:..... V:..... T:.....	Item			
Contract instructions issued on site are to be recorded in triplicate in a contract instruction book which is to be supplied and maintained on site by the contractor				
Labour record F:..... V:..... T:.....	Item			
At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and descriptions of tradesmen and labourers employed by him and all subcontractors on the works each day of that week				
Plant record F:..... V:..... T:.....	Item			
At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools used on the works each day of that week				
Guarantees F:..... V:..... T:.....	Item			
Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor. The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement				
Overtime F:..... V:..... T:.....	Item			
Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer				
Co-operation of contractor for cost management F:..... V:..... T:.....	Item			
It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The quantity surveyor undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor will attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures in regard to all subcontractors				
Occupational Health and Safety Specification F:..... V:..... T:.....	Item			

<p>The contractor shall comply with all the requirements set out in the Construction Regulations 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993). It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including extension of time or interest, due to such delay of payment. Provisions for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.</p>				
<p>Allow for the compulsory equipment and clothing, ie hats, safety shoes, safety clothing, safety glasses, safety masks, harnesses, etc F:..... V:..... T:.....</p>	Item			
<p>Allow for all compulsory health and safety posters, boards, etc F:..... V:..... T:.....</p>	Item			
<p>Allow for all compulsory health and safety workshops, meetings, lectures, demonstrations, etc F:..... V:..... T:.....</p>	Item			
<p>Allow for all compulsory health and safety pamphlets, cards, paperwork, etc to each worker, consultant, public individual, etc coming onto the site F:..... V:..... T:.....</p>	Item			
<p>Allow for compulsory health and safety files that must be completed daily and must be handed to the employer on completion of the contract F:..... V:..... T:.....</p>	Item			
<p>Scope of Application as per Act No 85 of 1993 F:..... V:..... T:.....</p>	Item			
<p>Notification of Construction Work as per Act No 85 of 1993 F:..... V:..... T:.....</p>	Item			
<p>Employer's responsibilities as per Act No 85 of 1993 F:..... V:..... T:.....</p>	Item			
<p>Principal Contractor's responsibility as per Act No 85 of 1993 F:..... V:..... T:.....</p>	Item			
<p>Supervision of construction work as per Act No 85 of 1993 F:..... V:..... T:.....</p>	Item			
<p>Risk assessment as per Act No 85 of 1993 F:..... V:..... T:.....</p>	Item			
<p>Fall protection as per Act No 85 of 1993 F:..... V:..... T:.....</p>	Item			
<p>Structures Formwork and Support as per Act No 85 of 1993 F:..... V:..... T:.....</p>	Item			
<p>Excavation as per Act No 85 of 1993 F:..... V:..... T:.....</p>	Item			
<p>Demolition work as per Act No 85 of 1993 F:..... V:..... T:.....</p>	Item			
<p>Tunnelling as per Act No 85 of 1993 F:..... V:..... T:.....</p>	Item			
<p>Scaffolding as per Act No 85 of 1993 F:..... V:..... T:.....</p>	Item			
<p>Suspended platforms as per Act No 85 of 1993 F:..... V:..... T:.....</p>	Item			
<p>Botswains chairs as per Act No 85 of 1993 F:..... V:..... T:.....</p>	Item			
<p>Materials hoists as per Act No 85 of 1993 F:..... V:..... T:.....</p>	Item			
<p>Batch plant as per Act No 85 of 1993 F:..... V:..... T:.....</p>	Item			
<p>Explosive powered tools as per Act No 85 of 1993 F:..... V:..... T:.....</p>	Item			
<p>Cranes as per Act No 85 of 1993 F:..... V:..... T:.....</p>	Item			
<p>Construction vehicles and mobile plant as per Act No 85 of 1993 F:..... V:..... T:.....</p>	Item			
<p>Electrical installations and machinery on construction sites as per Act No 85 of 1993 F:..... V:..... T:.....</p>	Item			

Use and temporary storage of flammable liquids on construction sites as per Act No 85 of 1993 F:..... V:..... T:.....	Item			
Water environments as per Act No 85 of 1993 F:..... V:..... T:.....	Item			
Housekeeping on construction sites as per Act No 85 of 1993 F:..... V:..... T:.....	Item			
Stacking and storage on construction sites as per Act No 85 of 1993 F:..... V:..... T:.....	Item			
Fire precautions as per Act No 85 of 1993 F:..... V:..... T:.....	Item			
Construction welfare as per Act No 85 of 1993 F:..... V:..... T:.....	Item			
Approved inspection Authorities as per Act No 85 of 1993 F:..... V:..... T:.....	Item			
Offences and penalties as per Act No 85 of 1993 F:..... V:..... T:.....	Item			
Repeal of regulations as per Act No 85 of 1993 F:..... V:..... T:.....	Item			
Short title as per Act No 85 of 1993 F:..... V:..... T:.....	Item			
Obligatory Sub-contracting and Training F:..... V:..... T:.....	Item			
The Contractor shall sub-contract 40% of the work to Domestic Sub-contractors as listed in the Schedule of Sub-Contractors in the Returnable Schedules The Principal Agent and the Contractor shall at all times make sure that the work complies with the relevant specifications, standards and norms as contained in this tender. The Principal Agent and the Contractor shall provide for the necessary skills transfer and assistance to complete the sub-contracted section of the works. The Principal Agent and the Contractor shall provide the necessary documentation to the Domestic Sub-Contractor for upgrading of the rating by CIDB. BEE Sub-Contractors must be 100% black owned and have offices in Mpumalanga Province				
Expanded Public Works Programme F:..... V:..... T:.....	Item			
The Contractor shall study the guidelines for the implementation of labour-intensive infrastructure projects under the Expanded Public Works Programme (EPWP) attached to this document. The Contractor shall take note of the requirements and inform all selected and or other sub-contractors, as no claim afterwards will be entertained				
C11.1 Local and targeted labour F:..... V:..... T:.....	Item			
Allow for regular submission of proof of employment of local skilled and unskilled labour to Employer's representative F:..... V:..... T:.....	Item			
Training allowance paid to targeted labour in respect of formal training. F:..... V:..... T:.....	Item			
Extra over for the administration of payment of training allowances to targeted labour F:..... V:..... T:.....	Item			
Transport and accommodation of workers for training where it is not possible to undertake the training in close proximity to the site F:..... V:..... T:.....	Item			
C12: Contract drawings F:..... V:..... T:.....	Item			
The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent				
C13: General preambles F:..... V:..... T:.....	Item			
C14: Trade names F:..... V:..... T:.....	Item			
Wherever a trade name form any product has been described in the bills of quantities / lump sum document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for				
C15: Community Liaison Officer F:..... V:..... T:.....	Item			
Allow for a Community Liaison Officer (CLO) to be appointed F:..... V:..... T:.....	Item			

Allow for net extra cost involved in the employment of a Community Liaison Officer (CLO) in respect of the site office. F:..... V:..... T:.....	Item				
Allow for net extra cost involved in the employment of a Community Liaison Officer (CLO) in respect of the toilets. F:..... V:..... T:.....	Item				
Allow for net extra cost involved in the employment of a Community Liaison Officer (CLO) in respect of the sheds. F:..... V:..... T:.....	Item				
C16: SANS 1921-6: HIV/AIDS Awareness read in conjunction with the Associated Specification Data F:..... V:..... T:.....	Item				
General requirements (Clause 4.1) F:..... V:..... T:.....	Item				
HIV/AIDS awareness programme (Clause 4.2) F:..... V:..... T:.....	Item				
Reporting (Clause 4.3) F:..... V:..... T:.....	Item				
SUMMARY OF CATEGORIES					
Category : Fixed R:..... Category : Value R:..... Category : Time R:.....					
SECTION 1: TOTAL PRELIMINARIES				R	-

SECTION NO. 2

COMPREHENSIVE RENOVATION OF THE WATERBORNE TOILET AND KITCHEN FOR JAMELA

BILL NO 1

ALTERATIONS (ALL PROVISIONAL)

Notes: Tenderers are advised to study the 'Specifications of Materials and Methods to be used' before pricing this Bill

GENERAL NOTES

SHORT DESCRIPTIONS

For further preambles and full descriptions of items not fully described in this Bill, reference must be made to supplementary preambles and descriptions in the other Bills of this Section. Such supplementary preambles and descriptions shall apply equally to the work in this Bill

GENERAL

In taking down and removing existing work the utmost care shall be observed to prevent any structural or other damage to remaining portions of the building and the Contractor shall provide all shoring, needling, strutting, etc. to ensure the stability of all structures during alteration work. Special care shall be exercised during the progress of the work to ensure that any electrical installations, water supply pipes, telephone and other services which may be encountered are not interfered with and notice shall be given to the Representative/Agent if any disconnection or alterations become necessary

Any water supply and other piping that may be encountered and which is found necessary to disconnect or cut shall, after such disconnection or cutting has been authorised by the Representative/Agent, be effectively stopped off and any new connections that may be necessary made with the proper tees, junction pieces, etc. to the satisfaction of the Representative/Agent. The Contractor shall afford every facility to workmen not under his control making disconnections and new connections as required to any services

MATERIALS FROM THE ALTERATIONS, CREDIT, ETC.

OLD MATERIALS TO BECOME THE PROPERTY OF THE CONTRACTOR. Old materials from alterations, except where described as to be "re-used" or "handed over" become the property of the Contractor who may allow credit for same where provided for in these Bills of Quantities. OLD MATERIALS TO BE CARTED AWAY. Old materials from the alterations, where described as to be "removed" as well as all rubbish, etc. must be regularly carted from the site and not be allowed to accumulate on or around the site. OLD MATERIALS NOT TO BE RE-USED. None of the old materials are to be used for new work except where specifically described as being "set aside for re-use". HANDING OVER OF MATERIALS. Where certain materials or articles from alterations are described as to be "handed over" to the Representative/Agent, such material or articles shall be properly stored by the Contractor, until handing over thereof. The Contractor must obtain an official receipt listing the materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Department for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor.

EXISTING BUILDINGS

The existing buildings will be in use and occupied during the progress of the contract and the Contractor will be required to carry out the works in such a manner as will least interfere with the occupants and with the minimum of disturbance. Contractors are also to note that due to the buildings being occupied the repairs and renovations works will be required to be executed in a specific order as will be determined by the Representative/Agent in conjunction with the Airforce Base Authorities.

SIZE PERTAINING TO EXISTING WORK

The Contractor is advised to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the correctness of sizes of all new work. All sizes given in relation to existing work are approximate.

MAKING GOOD DAMAGED WORK

The Contractor shall make good in all trades to existing work where damaged or disturbed through the alterations with all necessary new materials to match the existing.

FORMING NEW OPENINGS OR ALTERING OPENINGS IN EXISTING WALLS

Descriptions of forming new openings or altering openings in existing walls shall be deemed to include breaking out for and forming new brick, in-situ concrete or prestressed concrete lintels, including all reinforcement, formwork, turning pieces, etc., building up jumps or portion of openings as described with brickwork properly toothed and bonded to existing, building cavities of hollow walls solid where necessary and making good finishes all round on both sides and into reveals as described.

BUILDING UP OPENINGS

Descriptions of building up existing openings where given in number shall be deemed to include preparing existing surfaces all around, brickwork properly toothed and bonded to existing, wedging up and making good on both sides as described

PAINTWORK

Where plasterwork on walls, ceilings, etc. are required to be patched or made good, prices are to include for the appropriate priming coat and one coat undercoat to receive paint finishing coats which are measured elsewhere

The contractor must protect all work not removed such as walls, floors, doors, windows, fittings, etc. from damage during the progress of the work and provide all necessary materials for doing so. All shoring, etc. of portions of the existing buildings necessary to ensure the stability of the premises while executing the demolitions or alterations is to be provided by the contractor, who will be held solely responsible for any damage to persons or property and for safety of the structure throughout the contract period. The contractor will be required to make good at his own expense any damage that may occur.

Tenderers are advised to visit the site before tendering and satisfy themselves as to the nature and extent of the works, means of access to the site and availability of working space. No claims will be entertained due to the tenderer having failed to comply with the above conditions. The descriptions in the items are given as a guide and to assist contractors in tendering, but not necessarily accurate or complete. Contractors must verify the items by personal inspection on the site. Unless otherwise stated the contractor shall not remove or interfere with any furniture, furnishings, fittings or similar articles belonging to the Employer and /or their staff.

PROCEDURE OF WORK

The Representative/Agent reserves the right to direct the order in which the contract will be executed, should circumstances necessitate such action.

LOSS BY THEFT, FIRE OR OTHERWISE

The risk of loss, theft, fire, storm, riot or otherwise of the buildings to be demolished and the materials therein shall rest entirely with the contractor immediately upon the handing over of the site. He shall take such steps as he may deem fit for his own protection against such loss.

Water and other piping

Any water supply or other piping that may be met with and found necessary to disconnect or cut are to be effectually stopped off or grubbed up and removed and any new connections that may be necessary and are to be made with proper fittings and to the satisfaction of the Architect to whom due notice is to be given regarding all alterations to existing services. Prices for items of demolitions, are where applicable, to include for taking out and removing all sanitary fittings, plumbing and water supplies.

Electrical and other services

Special care is to be exercised not to unnecessarily interfere with any electric light, bell, power, telephone or other wires and fittings that may be met with and due notice must be given to the Architect when any disconnections, removals, diversions, interruptions, etc. are necessary and the contractor is to afford every facility to the workmen carrying out this work.

The contractor must protect all work not removed such as walls, floors, doors, windows, fittings, etc. from damage during the progress of the work and provide all necessary materials for doing so. All shoring, etc. of portions of the existing buildings necessary to ensure the stability of the premises while executing the demolitions or alterations is to be provided by the contractor, who will be held solely responsible for any damage to persons or property and for safety of the structure throughout the contract period. The contractor will be required to make good at his own expense any damage that may occur.

Existing buildings occupied

Tenderers are advised that the existing buildings will be in occupation during the building operations and due allowance must be made for the work being carried out in such a manner as will least interfere with the general routine of the occupants. Adequate warning must be given if a particular section of the building has to be evacuated to carry out the work.

Noise prevention

The contractor shall take special care to minimise noisy operations during business hours. Such measures will include, inter alia, the use of silent compressors and strict control of workmen.

The contractor shall demolish the portions of existing structures or buildings with a minimum amount of damage to adjoining buildings, materials, pavings, etc. Any damage caused is to be made good at his own expense with materials to match the existing to the entire satisfaction of the Architect. Tenderers should take particular note of and allow accordingly in their prices for the type of structure and materials to be encountered and the thickness of walls, concrete slabs, etc. to be demolished. Unless otherwise described all materials arising from the demolitions and alterations are to become the property of the contractor and he is to allow a credit for the same as provided for on the final summary page. These materials, including all rubbish and debris shall be immediately carted away and the site left clean and unencumbered. None of the old brick from the demolitions are to be re-used for any new brickwork.

Bricking up, altering or breaking new opening in existing walls

Where the Contractor is required to form openings, alter openings or brick up openings in existing walls all brickwork shall be made good at jambs including properly bonding to existing. Brickwork in bricking up openings shall be wedged and pinned up to brickwork or concrete over in cement mortar. Cement screeds, pavings, granolithic, etc. in openings are to be levelled and prepared for raising of brickwork. Plaster to reveals to openings are to have all external angles rounded and making good of finishes is to include for junction with existing finishes. Where openings are described as having new brick lintols they are to be with minimum 220mm end bearings and prices are to include for brick reinforcement to suit the width of the wall. Lintols are to be three courses high up to span of 1000mm and four courses high up to span of 1000mm and four courses high when exceeding that span and brickwork is to be built in 1:3 cement mortar. Where openings are described as having precast prestressed concrete lintols they are to be with minimum 220mm end bearings of 30 MPa concrete. One prestressed lintol for each half brick thickness is required and is to be reinforced with and including all necessary high tensile wire.					
Making good, etc.					
Prices are to include for making good in all trades to existing work, where damaged or disturbed through alterations, with all necessary new materials to match existing and leave complete and perfect in every respect.					
<u>REMOVAL OF EXISTING WORK</u>					
<u>BILL NO. 1</u>					
<u>ALTERATIONS</u>					
<u>DEMOLITIONS ETC</u>					
<u>REMOVAL OF EXISTING WORK</u>					
<u>Breaking down and removing brickwork etc</u>					
One brick wall on beam filling	m2	6	R	-	
<u>Taking out doors, windows, etc including thresholds, sills, etc and handing to employer (building up openings elsewhere)</u>					
Timber single door and frame size 813 x 2032mm high	No	3	R	-	
<u>Carefully take out and remove from site the following including making good all works disturbed</u>					
Existing Lockable toilet roll holder plugged	No	2	R	-	
<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u>					
30mm Granolithic from floors	m2	26	R	-	
<u>Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes</u>					
Tiles to walls	m2	10	R	-	
<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>					
Wash hand basin	No	2	R	-	
WC pan with cistern	No	2	R	-	
<u>Taking out and removing glass and mirrors</u>					
Carefully remove cracked or broken glazing in panes exceeding 0,5m2 and not exceeding 2m2 in existing metal windows and doors including removal of steel beads and prepare windows and doors to receive new glazing (New glazing elsewhere measured)	m2	2	R	-	
<u>Taking down and removing roofs, e.t.c</u>					
Carefully take out and remove damaged existing corrugated / concrete tiles / IBR roofing sheet	m2	26	R	-	
Carefully take out and remove damaged existing timber roof trusses and make good brickwork to receive new roof trusses (New roof trusses elsewhere measured)	m2	26	R	-	
Carefully cut and remove broken or damaged fibre fascia/bargeboards not exceeding 300mm wide and make good works disturbed (replacement elsewhere measured)	m	22	R	-	
Carefully take out and remove existing corrugated cover flashing	m	8	R	-	
<u>Taking down and removing ceilings, e.t.c</u>					
Carefully remove damaged sections of existing gypsum ceiling boards including removal of damaged brandering and prepare existing to receive new (New boards elsewhere measured)	m2	26	R	-	

Carefully remove damaged sections of existing gypsum cornices in lengths not exceeding 3,0m and make good walls and ceilings to receive new (New cornice elsewhere measured)	m	35	R	-
<u>Servicing existing windows</u>				
Carefully examine hinges, handles and stays to steel windows, replace putty to glazing of steel windows and fully service same to facilitate smooth functionality, all to the satisfaction of the Principal Agent, overall size of window 600 x 500mm high	No	4	R	-
<u>CUTTING THROUGH FLOORS AND CEILINGS</u>				
50 x 50mm chase formed for plumbing pipework	m	5	R	-
<u>BUILDING UP OPENINGS</u>				
<u>Brickwork in NFP bricks in class II mortar in building up openings</u>				
One brick walls (Beam Filling)	m2	6	R	-
<u>Brickwork reinforcement</u>				
150mm Wide reinforcement built in horizontally	m	40	R	-
<u>Sundries</u>				
Cutting toothings and bonding new brickwork to existing	m2	2	R	-
<u>220mm face bricks pointed with flush horizontal and vertical joints</u>				
Extra over brickwork for face brickwork in beamfilling	m2	6	R	-
<u>PREPARATORY WORK TO EXISTING SURFACES</u>				
<u>Scabble existing surface of fair faced wall and prepare surface to receive new plaster (new plaster elsewhere measured)</u>				
On walls	m2	80	R	-
<u>SCREEDS</u>				
Make good cracks not more than 5mm wide with cement grout (1:3) on steel or wood floated screed, flush and match existing floor texture	m	5	R	-
<u>INTERNAL PLASTER</u>				
Fill cracks not more than 5mm wide with poly-filler and touch-up paint to match existing colour	m	5	R	-
<u>BILL NO.2</u>				
<u>ROOF COVERINGS ETC</u>				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<u>0,6mm "zincalume" or similar to match existing Z275 spelter galvanised ribbed sheet steel in single lengths fixed to timber/steel purlins or rails.</u>				
Roof covering with pitches not exceeding 25 degrees inclusive of ISO board insulation				
0,6mm IBR Galvanised sheeting fixed to timber purlins	m2	26	R	-
Head wall flashing 450mm girth	m	8	R	-
<u>ROOF AND WALL INSULATION</u>				
<u>"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation</u>				
Insulation laid taut over purlins (at approximately 1 100mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m2	26	R	-
<u>BILL NO. 3</u>				
<u>CARPENTRY AND JOINERY</u>				
<u>EAVES , VERGES , ETC</u>				
<u>Everite pressed nutec-cement</u>				
12 x 225mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	16	R	-
<u>DOORS ETC</u>				
<u>Wrought hardwood flushback doors with sapele veneer hung to steel frames</u>				
Meranti framed batten external single door (PC R2200.00/No)	No	1	R	-
Approved solid core flush single door (PC R2650.00/No)	No	2	R	-
<u>FITTINGS</u>				

General

The following cupboard fittings have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc (refer Architect's drawings as attached to the back of these Bills of Quantities)

<u>Fittings to Cupboards</u>					
Floor cupboard 2 400 x 551 x 2 010mm high overall comprising tops, bottoms, sides, divisions, shelves, backs, filler panels, doors, ironmongery, finishes, etc all as per architect (Change rooms)	No	1	R	-	
Sink floor cupboard 2373 x 600 x 913mm high with 1 350 x 535mm sink basin comprising, bottoms, sides, divisions, shelves, backs, doors, etc (concrete slab and sink elsewhere measured) as per architect drawings. (Kitchenette)	No	1	R	-	
<u>ROOFS ETC</u>					
<u>Plate nailed timber roof truss construction</u>					
Truss construction to double pitched roof with hipped or gable ends and 2100mm high extreme including wall plates, trusses, jack rafters, permanent bracing including 38 x 52mm purlins/battens at not exceeding 1500mm centres for IBR roofing sheets	m2	26	R	-	
<u>Sawn softwood</u>					
50 x 76m Purlins	m	32	R	-	
38 x 114mm Wall plates	m	16	R	-	
Take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gangboarding, temporary and permanent bracing, etc (measured on slope of roof)	m2	26	R	-	
<u>Engineering Designs</u>					
Allow for the engineering design and certificate under the control of a registered structural Engineer in accordance with SABS 0160 and 0163	Item	1.00	R	-	
<u>BILL NO. 4</u>					
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>					
<u>CEILINGS ETC</u>					
<u>NAILED UP CEILINGS</u>					
<u>6,4mm "Rhino" gypsum plasterboard with H-type pressed steel jointing strips</u>					
Sloping ceilings including 38 x 38mm sawn softwood brandering at 400mm centres	m2	26	R	-	
Extra over ceiling for 650 x 650mm trap door of 38 x 50mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	1	R	-	
<u>Rhino gypsum plasterboard cornices</u>					
75mm Coved cornices	m	35	R	-	
<u>BILL NO. 5</u>					
<u>IRONMONGERY</u>					
NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 132 for CPAP formula purposes					
<u>SUPPLEMENTARY PREAMBLES</u>					
<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 SD SandedNP Nickle plated					
<u>LOCKS</u>					
<u>New Ironmongery fittings, supply and install to be similar and or approved</u>					
Bathroom lockset	No	2	R	-	
Three lever rebated deadlock	No	1	R	-	
<u>HANDLES</u>					
<u>New Ironmongery fittings, supply and install to be similar and or approved</u>					
Set of two door pull handles fixed back to back	No	1	R	-	
<u>PUSH PLATES AND KICKING PLATES</u>					
Aluminium plates exceeding 0,3m2 but not exceeding 0,5m2	No	1	R	-	
<u>LETTERS, NAMEPLATES, ETC</u>					
Aluminium plate with engraved or painted letters/numerals/symbols not exceeding 0,1m2	No	3	R	-	

<u>PELMETS AND CURTAIN TRACKS</u>				
Pressed steel pelmet with single or double curtain tracks including gliders, hangers and brackets	m	1	R	-
<u>BATHROOM FITTINGS</u>				
<u>New Ironmongery fittings, supply and install to be similar and or approved</u>				
Chromium plated curtain or hanging rail not exceeding 1,0m long	No	1	R	-
Chromium plated towel rail not exceeding 1,0m long	No	1	R	-
Lockable toilet roll holder	No	2	R	-
Soap holder	No	2	R	-
Bathroom cabinet	No	2	R	-
Soap dispenser	No	1	R	-
Electric hand-drier	No	1	R	-
Kwikot DSG-100-5 Sperline Dual Geyser	No	1	R	-
<u>SUNDRIES</u>				
<u>New Ironmongery fittings, supply and install to be similar and or approved</u>				
Rubber door stop	No	1	R	-
<u>BILL NO. 6</u>				
<u>METALWORK</u>				
NOTE: Tenderers are advised to study the Model reambles for Trades before pricing this Bill. Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved". -----				
<u>WELDED SCREENS, GATES, ETC</u>				
<u>Steel gates and frames</u>				
Single gate and frame 965 x 2 067mm high overall, the outer frame of 45 x 45 x 3mm hollow section bolted to wall with and including eight 70mm M80 expansion bolts and the gate 813 x 2 032mm high of 40 x 60 x 2mm hollow section frame with two 40 x 6mm flat section horizontal rails filled in with 20mm diameter vertical rails at 110mm centres fitted with one and a half pairs of suitable pin hinges welded to hollow section steel frame, complete with and including 150mm barrelbolt and padlock	No	1	R	-
<u>PRESSED STEEL DOOR FRAMES</u>				
<u>1,2mm Double rebated frames suitable for one brick walls</u>				
Frame for door 813 x 2 032mm high	No	3	R	-
<u>BILL NO. 7</u>				
<u>PLASTERING</u>				
<u>SCREEDS</u>				
<u>Cement plaster screeds wood floated on concrete</u>				
50mm Thick Average on floors and landings	m2	26	R	-
<u>INTERNAL PLASTER</u>				
<u>Cement plaster on brickwork/concrete</u>				
One coat cement plaster on walls or concrete	m2	80	R	-
<u>Sundries</u>				
Apply one coat rhinolite plaster to smoothen rough surfaces of plaster and prepare surface to receive painting. (Painting elsewhere measured)	m2	80	R	-
<u>BILL NO 8</u>				
<u>TILING</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Descriptions</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					
<u>WALL TILING</u>					
<u>Tiles supplied by Tile Africa or similar approved</u>					
<u>Ceramic tile (PC Amount R150.00/m2)</u>					
On walls	m2	10	R	-	
On narrow widths (Provisional)	m2	3	R	-	
<u>FLOOR TILING</u>					
<u>Tiles supplied by Tile Africa or similar approved</u>					
<u>Porcelain tile (PC Amount R150.00/m2)</u>					
On floors and landings	m2	26	R	-	
Tile skirting 100mm high	m	35	R	-	
<u>BILL NO. 9</u>					
<u>PLUMBING AND DRAINAGE</u>					
<u>(CPAP FORMULA WORK GROUP 148)</u>					
<u>RAINWATER DISPOSAL</u>					
<u>0.6mm Galvanised sheet iron with chromadek finish</u>					
100 x 125mm Galvanised gutter fixed to rafter feet	m	8	R	-	
Extra on 100 x 125mm square gutter for stop ends	No	2	R	-	
Extra on 100 x 125mm square gutter for outlet to 60mm diameter downpipe	No	2	R	-	
60mm diameter rainwater downpipe	m	10	R	-	
Extra on 60mm rainwater downpipe for shoe	No	2	R	-	
Extra over 60mm rainwater pipe for eaves offset	No	2	R	-	
<u>SANITARY FITTINGS (to be similar or approved)</u>					
<u>New sanitary fittings, to be similar or approved, etc including connecting pipes to fittings and making good floor and wall finishes</u>					
Wash hand basin	No	2	R	-	
WC pan with cistern	No	2	R	-	
WC pan connector	No	2	R	-	
<u>WASTE UNIONS ETC</u>					
32mm Basin waste	No	2	R	-	
<u>TRAPS ETC</u>					
<u>Marley or Similar approved</u>					
32mm Reseal "P" or "S" trap	No	2	R	-	
<u>Brass</u>					
Fullway gate valve	No	4	R	-	
<u>"Cobra Watertech" or Similar approved</u>					
Chrome Plated single taphole basin mixer	No	2	R	-	
Chrome Plated bath mixer with hand shower	No	1	R	-	
Chrome Plated shower rose	No	1	R	-	
Chrome Plated overhead shower arm	No	1	R	-	
"Flushmaster Junior" toilet flush valve	No	2	R	-	
"Flushmaster Junior" urinal flush valve	No	2	R	-	
<u>SANITARY PLUMBING</u>					
<u>uPVC Pipes</u>					
50mm Pipes	m	10	R	-	
110mm Pipes	m	5	R	-	

<u>Extra over uPVC pipes for fittings:</u>					
50mm Bend	No	5	R	-	
110mm Bend	No	2	R	-	
50mm Junction	No	5	R	-	
110mm Junction	No	2	R	-	
50mm Inspection junction	No	5	R	-	
110mm Inspection junction	No	2	R	-	
50mm Reducing junction	No	5	R	-	

110mm Reducing junction	No	2	R	-
110mm pan connector	No	2	R	-
110mm "GI Two way" vent valve	No	1	R	-
50mm "GI Two way" vent valve	No	1	R	-
<u>HOT AND COLD WATER SERVICES</u>				
<u>Class 1 copper (hard drawn) pipes</u>				
15mm Pipes	m	20	R	-
15mm Pipes chased into brick walls	m	6	R	-
22mm Pipes	m	25	R	-
22mm Pipes chased into brick walls	m	12	R	-
<u>Extra over class 1 copper (hard drawn) pipes for capillary fittings</u>				
15mm Fittings	No	15	R	-
22mm Fittings	No	10	R	-
<u>TESTING</u>				
Testing water pipe system	Item	1	R	-
Testing sewer/waste pipe system	Item	1	R	-
<u>FIRE APPLIANCES ETC</u>				
9kg Dry chemical fire extinguisher	No	1	R	-
<u>BILL NO.10</u>				
<u>GLAZING</u>				
<u>GLAZING TO METAL / WOOD WITH PUTTY OR BEADS</u>				
<u>4mm Patterned glass</u>				
Panes exceeding 0,5m2 and not exceeding 2m2	m2	2	R	-
<u>MIRRORS, ETC</u>				
<u>6mm Silvered float glass copper backed mirrors with 10 mm bevelled and polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u>				
Mirror 450 x 600mm high	No	1	R	-
<u>BILL NO.11</u>				
<u>PAINTWORK</u>				
<u>PREPARATORY WORK TO EXISTING WORK</u>				
<u>PAINTWORK ETC TO PREVIOUSLY PAINTED WORK</u>				
Note: All paintwork to be "Dulux" or similar approved product				
<u>On Floated Plaster</u>				
<u>Apply two coats of Acrylic PVA emulsion paint on work previously painted</u>				
On internal walls	m2	80	R	-
On Window Cills	m2	1	R	-
<u>ON PLASTERBOARD</u>				
<u>One coat primer and two coats interior quality PVA emulsion paint</u>				
On ceilings and cornices	m2	26	R	-
<u>ON FIBRE-CEMENT</u>				
<u>One coat primer and two coats exterior quality PVA emulsion paint</u>				
On fascias and barge boards not exceeding 300 mm girth	m	16	R	-
<u>On Metal</u>				
<u>Prepare and apply one undercoat and two finishing coats of gloss paint on metalworks</u>				
On door frames	m2	2	R	-

On windows with burglar bars	m2	2	R	-
<u>ON WOOD</u>				
<u>Prepare and apply one coat wood primer, one undercoat and one finishing coat alkyd enamel paint in colours which have a value of 7 or less on the Munsell system in accordance with SABS 1091</u>				
On doors	m2	12	R	-
<u>PROTECTIVE ROOFING PAINT</u>				
<u>Two coats "Silvakote" bituminous aluminium paint</u>				
On waterproofing to roofs	m2	26	R	-
SECTION 2: TOTAL COMPREHENSIVE RENOVATION OF THE WATERBORNE TOILET AND KITCHEN FOR JAMELA				
R				
-				

SECTION 3

COMPREHENSIVE RENOVATION OF THE WATERBORNE TOILET FOR MASOMBUKA

BILL NO 1

ALTERATIONS (ALL PROVISIONAL)

Notes: Tenderers are advised to study the 'Specifications of Materials and Methods to be used' before pricing this Bill

GENERAL NOTES

SHORT DESCRIPTIONS

For further preambles and full descriptions of items not fully described in this Bill, reference must be made to supplementary preambles and descriptions in the other Bills of this Section. Such supplementary preambles and descriptions shall apply equally to the work in this Bill

GENERAL

In taking down and removing existing work the utmost care shall be observed to prevent any structural or other damage to remaining portions of the building and the Contractor shall provide all shoring, needling, strutting, etc. to ensure the stability of all structures during alteration work. Special care shall be exercised during the progress of the work to ensure that any electrical installations, water supply pipes, telephone and other services which may be encountered are not interfered with and notice shall be given to the Representative/Agent if any disconnection or alterations become necessary

Any water supply and other piping that may be encountered and which is found necessary to disconnect or cut shall, after such disconnection or cutting has been authorised by the Representative/Agent, be effectively stopped off and any new connections that may be necessary made with the proper tees, junction pieces, etc. to the satisfaction of the Representative/Agent. The Contractor shall afford every facility to workmen not under his control making disconnections and new connections as required to any services

MATERIALS FROM THE ALTERATIONS, CREDIT, ETC.

OLD MATERIALS TO BECOME THE PROPERTY OF THE CONTRACTOR. Old materials from alterations, except where described as to be "re-used" or "handed over" become the property of the Contractor who may allow credit for same where provided for in these Bills of Quantities. OLD MATERIALS TO BE CARTED AWAY. Old materials from the alterations, where described as to be "removed" as well as all rubbish, etc. must be regularly carted from the site and not be allowed to accumulate on or around the site. OLD MATERIALS NOT TO BE RE-USED. None of the old materials are to be used for new work except where specifically described as being "set aside for re-use". HANDING OVER OF MATERIALS. Where certain materials or articles from alterations are described as to be "handed over" to the Representative/Agent, such material or articles shall be properly stored by the Contractor, until handing over thereof. The Contractor must obtain an official receipt listing the materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Department for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor.

EXISTING BUILDINGS

The existing buildings will be in use and occupied during the progress of the contract and the Contractor will be required to carry out the works in such a manner as will least interfere with the occupants and with the minimum of disturbance. Contractors are also to note that due to the buildings being occupied the repairs and renovations works will be required to be executed in a specific order as will be determined by the Representative/Agent in conjunction with the Airforce Base Authorities.

SIZE PERTAINING TO EXISTING WORK

The Contractor is advised to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the correctness of sizes of all new work. All sizes given in relation to existing work are approximate.

MAKING GOOD DAMAGED WORK

The Contractor shall make good in all trades to existing work where damaged or disturbed through the alterations with all necessary new materials to match the existing.

FORMING NEW OPENINGS OR ALTERING OPENINGS IN EXISTING WALLS

Descriptions of forming new openings or altering openings in existing walls shall be deemed to include breaking out for and forming new brick, in-situ concrete or prestressed concrete lintels, including all reinforcement, formwork, turning pieces, etc., building up jumps or portion of openings as described with brickwork properly toothed and bonded to existing, building cavities of hollow walls solid where necessary and making good finishes all round on both sides and into reveals as described.

BUILDING UP OPENINGS

Descriptions of building up existing openings where given in number shall be deemed to include preparing existing surfaces all around, brickwork properly toothed and bonded to existing, wedging up and making good on both sides as described

PAINTWORK

Where plasterwork on walls, ceilings, etc. are required to be patched or made good, prices are to include for the appropriate priming coat and one coat undercoat to receive paint finishing coats which are measured elsewhere

The contractor must protect all work not removed such as walls, floors, doors, windows, fittings, etc. from damage during the progress of the work and provide all necessary materials for doing so. All shoring, etc. of portions of the existing buildings necessary to ensure the stability of the premises while executing the demolitions or alterations is to be provided by the contractor, who will be held solely responsible for any damage to persons or property and for safety of the structure throughout the contract period. The contractor will be required to make good at his own expense any damage that may occur.

Tenderers are advised to visit the site before tendering and satisfy themselves as to the nature and extent of the works, means of access to the site and availability of working space. No claims will be entertained due to the tenderer having failed to comply with the above conditions. The descriptions in the items are given as a guide and to assist contractors in tendering, but not necessarily accurate or complete. Contractors must verify the items by personal inspection on the site. Unless otherwise stated the contractor shall not remove or interfere with any furniture, furnishings, fittings or similar articles belonging to the Employer and /or their staff.

PROCEDURE OF WORK

The Representative/Agent reserves the right to direct the order in which the contract will be executed, should circumstances necessitate such action.

LOSS BY THEFT, FIRE OR OTHERWISE

The risk of loss, theft, fire, storm, riot or otherwise of the buildings to be demolished and the materials therein shall rest entirely with the contractor immediately upon the handing over of the site. He shall take such steps as he may deem fit for his own protection against such loss.

Water and other piping

Any water supply or other piping that may be met with and found necessary to disconnect or cut are to be effectually stopped off or grubbed up and removed and any new connections that may be necessary and are to be made with proper fittings and to the satisfaction of the Architect to whom due notice is to be given regarding all alterations to existing services. Prices for items of demolitions, are where applicable, to include for taking out and removing all sanitary fittings, plumbing and water supplies.

Electrical and other services

Special care is to be exercised not to unnecessarily interfere with any electric light, bell, power, telephone or other wires and fittings that may be met with and due notice must be given to the Architect when any disconnections, removals, diversions, interruptions, etc. are necessary and the contractor is to afford every facility to the workmen carrying out this work.

The contractor must protect all work not removed such as walls, floors, doors, windows, fittings, etc. from damage during the progress of the work and provide all necessary materials for doing so. All shoring, etc. of portions of the existing buildings necessary to ensure the stability of the premises while executing the demolitions or alterations is to be provided by the contractor, who will be held solely responsible for any damage to persons or property and for safety of the structure throughout the contract period. The contractor will be required to make good at his own expense any damage that may occur.

Existing buildings occupied

Tenderers are advised that the existing buildings will be in occupation during the building operations and due allowance must be made for the work being carried out in such a manner as will least interfere with the general routine of the occupants. Adequate warning must be given if a particular section of the building has to be evacuated to carry out the work.

Noise prevention

The contractor shall take special care to minimise noisy operations during business hours. Such measures will include, inter alia, the use of silent compressors and strict control of workmen.

The contractor shall demolish the portions of existing structures or buildings with a minimum amount of damage to adjoining buildings, materials, pavings, etc. Any damage caused is to be made good at his own expense with materials to match the existing to the entire satisfaction of the Architect. Tenderers should take particular note of and allow accordingly in their prices for the type of structure and materials to be encountered and the thickness of walls, concrete slabs, etc. to be demolished. Unless otherwise described all materials arising from the demolitions and alterations are to become the property of the contractor and he is to allow a credit for the same as provided for on the final summary page. These materials, including all rubbish and debris shall be immediately carted away and the site left clean and unencumbered. None of the old brick from the demolitions are to be re-used for any new brickwork.

Bricking up, altering or breaking new opening in existing walls

Where the Contractor is required to form openings, alter openings or brick up openings in existing walls all brickwork shall be made good at jambs including properly bonding to existing. Brickwork in bricking up openings shall be wedged and pinned up to brickwork or concrete over in cement mortar. Cement screeds, pavings, granolithic, etc. in openings are to be levelled and prepared for raising of brickwork. Plaster to reveals to openings are to have all external angles rounded and making good of finishes is to include for junction with existing finishes. Where openings are described as having new brick lintols they are to be with minimum 220mm end bearings and prices are to include for brick reinforcement to suit the width of the wall. Lintols are to be three courses high up to span of 1000mm and four courses high up to span of 1000mm and four courses high when exceeding that span and brickwork is to be built in 1:3 cement mortar. Where openings are described as having precast prestressed concrete lintols they are to be with minimum 220mm end bearings of 30 MPa concrete. One prestressed lintol for each half brick thickness is required and is to be reinforced with and including all necessary high tensile wire.				
Making good, etc.				
Prices are to include for making good in all trades to existing work, where damaged or disturbed through alterations, with all necessary new materials to match existing and leave complete and perfect in every respect.				
<u>REMOVAL OF EXISTING WORK</u>				
<u>BILL NO. 1</u>				
<u>ALTERATIONS</u>				
<u>DEMOLITIONS ETC</u>				
<u>REMOVAL OF EXISTING WORK</u>				
<u>Breaking down and removing brickwork etc</u>				
One brick wall on beam filling	m2	6	R	-
<u>Taking out doors, windows, etc including thresholds, sills, etc and handing to employer (building up openings elsewhere)</u>				
Timber single door and frame size 813 x 2032mm high	No	4	R	-
<u>Carefully take out and remove from site the following including making good all works disturbed</u>				
Existing Lockable toilet roll holder plugged	No	2	R	-
<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u>				
30mm Granolithic from floors	m2	26	R	-
<u>Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes</u>				
Tiles to walls	m2	30	R	-
<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>				
Wash hand basin	No	2	R	-
WC pan with cistern	No	2	R	-
Shower	No	3	R	-
<u>Taking out and removing glass and mirrors</u>				
Carefully remove cracked or broken glazing in panes exceeding 0,5m2 and not exceeding 2m2 in existing metal windows and doors including removal of steel beads and prepare windows and doors to receive new glazing (New glazing elsewhere measured)	m2	2	R	-
<u>Taking down and removing roofs, e.t.c</u>				
Carefully take out and remove damaged existing corrugated / concrete tiles / IBR roofing sheet	m2	26	R	-
Carefully take out and remove damaged existing timber roof trusses and make good brickwork to receive new roof trusses (New roof trusses elsewhere measured)	m2	26	R	-
Carefully cut and remove broken or damaged fibre fascia/bargeboards not exceeding 300mm wide and make good works disturbed (replacement elsewhere measured)	m	22	R	-
Carefully take out and remove existing corrugated cover flashing	m	8	R	-
<u>Taking down and removing ceilings, e.t.c</u>				
Carefully remove damaged sections of existing gypsum ceiling boards including removal of damaged brandering and prepare existing to receive new (New boards elsewhere measured)	m2	26	R	-

Carefully remove damaged sections of existing gypsum cornices in lengths not exceeding 3,0m and make good walls and ceilings to receive new (New cornice elsewhere measured)	m	40	R	-
<u>Servicing existing windows</u>				
Carefully examine hinges, handles and stays to steel windows, replace putty to glazing of steel windows and fully service same to facilitate smooth functionality, all to the satisfaction of the Principal Agent, overall size of window 600 x 500mm high	No	5	R	-
<u>CUTTING THROUGH FLOORS AND CEILINGS</u>				
50 x 50mm chase formed for plumbing pipework	m	5	R	-
<u>BUILDING UP OPENINGS</u>				
<u>Brickwork in NFP bricks in class II mortar in building up openings</u>				
One brick walls (Beam Filling)	m2	6	R	-
<u>Brickwork reinforcement</u>				
150mm Wide reinforcement built in horizontally	m	40	R	-
<u>Sundries</u>				
Cutting toothings and bonding new brickwork to existing	m2	2	R	-
<u>220mm face bricks pointed with flush horizontal and vertical joints</u>				
Extra over brickwork for face brickwork in beamfilling	m2	6	R	-
<u>PREPARATORY WORK TO EXISTING SURFACES</u>				
<u>Scabble existing surface of fair faced wall and prepare surface to receive new plaster (new plaster elsewhere measured)</u>				
On walls	m2	80	R	-
<u>SCREEDS</u>				
Make good cracks not more than 5mm wide with cement grout (1:3) on steel or wood floated screed, flush and match existing floor texture	m	5	R	-
<u>INTERNAL PLASTER</u>				
Fill cracks not more than 5mm wide with poly-filler and touch-up paint to match existing colour	m	10	R	-
<u>BILL NO.2</u>				
<u>ROOF COVERINGS ETC</u>				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<u>0,6mm "zincalume" or similar to match existing Z275 spelter galvanised ribbed sheet steel in single lengths fixed to timber/steel purlins or rails.</u>				
Roof covering with pitches not exceeding 25 degrees inclusive of ISO board insulation				
0,6mm IBR Galvanised sheeting fixed to timber purlins	m2	26	R	-
Head wall flashing 450mm girth	m	8	R	-
<u>ROOF AND WALL INSULATION</u>				
<u>"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation</u>				
Insulation laid taut over purlins (at approximately 1 100mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m2	26	R	-
<u>BILL NO. 3</u>				
<u>CARPENTRY AND JOINERY</u>				
<u>EAVES . VERGES . ETC</u>				
<u>Everite pressed nutec-cement</u>				
12 x 225mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	16	R	-
<u>DOORS ETC</u>				
<u>Wrought hardwood flushback doors with sapele veneer hung to steel frames</u>				
Meranti framed batten external single door (PC R2200.00/No)	No	1	R	-
Approved solid core flush single door (PC R2650.00/No)	No	3	R	-

<u>FITTINGS</u>				
<u>General</u>				
The following cupboard fittings have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc (refer Architect's drawings as attached to the back of these Bills of Quantities)				
<u>Fittings to Cupboards</u>				
Wall cupboard 2 400 x 551 x 2 010mm high overall comprising tops, bottoms, sides, divisions, shelves, backs, filler panels, doors, ironmongery, finishes, etc all as per architect (Change rooms)	No	1	R	-
<u>ROOFS ETC</u>				
<u>Plate nailed timber roof truss construction</u>				
Truss construction to double pitched roof with hipped or gable ends and 2100mm high extreme including wall plates, trusses, jack rafters, permanent bracing including 38 x 52mm purlins/battens at not exceeding 1500mm centres for IBR roofing sheets	m2	26	R	-
<u>Sawn softwood</u>				
50 x 76m Purlins	m	32	R	-
38 x 114mm Wall plates	m	16	R	-
Take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gangboarding, temporary and permanent bracing, etc (measured on slope of roof)	m2	26	R	-
<u>Engineering Designs</u>				
Allow for the engineering design and certificate under the control of a registered structural Engineer in accordance with SABS 0160 and 0163	Item	1.00	R	-
<u>BILL NO. 4</u>				
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>				
<u>CEILINGS ETC</u>				
<u>NAILED UP CEILINGS</u>				
<u>6,4mm "Rhino" gypsum plasterboard with H-type pressed steel jointing strips</u>				
Sloping ceilings including 38 x 38mm sawn softwood brandering at 400mm centres	m2	26	R	-
Extra over ceiling for 650 x 650mm trap door of 38 x 50mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	1	R	-
<u>Rhino gypsum plasterboard cornices</u>				
75mm Coved cornices	m	40	R	-
<u>BILL NO. 5</u>				
<u>IRONMONGERY</u>				
NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 132 for CPAP formula purposes				
<u>SUPPLEMENTARY PREAMBLES</u>				
<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 SD SandedNP Nickle plated				
<u>LOCKS</u>				
<u>New Ironmongery fittings, supply and install to be similar and or approved</u>				
Bathroom lockset	No	3	R	-
Three lever rebated deadlock	No	1	R	-
<u>HANDLES</u>				
<u>New Ironmongery fittings, supply and install to be similar and or approved</u>				
Set of two door pull handles fixed back to back	No	1	R	-

<u>PUSH PLATES AND KICKING PLATES</u>					
Aluminium plates exceeding 0,3m2 but not exceeding 0,5m2	No	1	R	-	
<u>LETTERS, NAMEPLATES, ETC</u>					
Aluminium plate with engraved or painted letters/numerals/symbols not exceeding 0,1m2	No	4	R	-	
<u>PELMETS AND CURTAIN TRACKS</u>					
Pressed steel pelmet with single or double curtain tracks including gliders, hangers and brackets	m	3	R	-	
<u>BATHROOM FITTINGS</u>					
<u>New Ironmongery fittings, supply and install to be similar and or approved</u>					
Chromium plated curtain or hanging rail not exceeding 1,0m long	No	3	R	-	
Chromium plated towel rail not exceeding 1,0m long	No	3	R	-	
Lockable toilet roll holder	No	2	R	-	
Soap holder	No	2	R	-	
Bathroom cabinet	No	1	R	-	
Soap dispenser	No	1	R	-	
Electric hand-drier	No	1	R	-	
Kwikot DSG-100-5 Sperline Dual Geyser	No	1	R	-	
<u>SUNDRIES</u>					
<u>New Ironmongery fittings, supply and install to be similar and or approved</u>					
Rubber door stop	No	1	R	-	
<u>BILL NO. 6</u>					
<u>METALWORK</u>					
NOTE: Tenderers are advised to study the Model reambles for Trades before pricing this Bill. Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved". -----					
<u>WELDED SCREENS, GATES, ETC</u>					
<u>Steel gates and frames</u>					
Single gate and frame 965 x 2 067mm high overall, the outer frame of 45 x 45 x 3mm hollow section bolted to wall with and including eight 70mm M80 expansion bolts and the gate 813 x 2 032mm high of 40 x 60 x 2mm hollow section frame with two 40 x 6mm flat section horizontal rails filled in with 20mm diameter vertical rails at 110mm centres fitted with one and a half pairs of suitable pin hinges welded to hollow section steel frame, complete with and including 150mm barrelbolt and padlock	No	1	R	-	
<u>PRESSED STEEL DOOR FRAMES</u>					
<u>1,2mm Double rebated frames suitable for one brick walls</u>					
Frame for door 813 x 2 032mm high	No	4	R	-	
<u>BILL NO. 7</u>					
<u>PLASTERING</u>					
<u>SCREEDS</u>					
<u>Cement plaster screeds wood floated on concrete</u>					
50mm Thick Average on floors and landings	m2	26	R	-	
<u>INTERNAL PLASTER</u>					
<u>Cement plaster on brickwork/concrete</u>					
One coat cement plaster on walls or concrete	m2	80	R	-	
<u>Sundries</u>					
Apply one coat rhinolite plaster to smoothen rough surfaces of plaster and prepare surface to receive painting. (Painting elsewhere measured)	m2	80	R	-	
<u>BILL NO 8</u>					

<u>TILING</u>					
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Descriptions</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					
<u>WALL TILING</u>					
<u>Tiles supplied by Tile Africa or similar approved</u>					
<u>Ceramic tile (PC Amount R150.00/m2)</u>					
On walls	m2	30	R	-	
On narrow widths (Provisional)	m2	5	R	-	
<u>FLOOR TILING</u>					
<u>Tiles supplied by Tile Africa or similar approved</u>					
<u>Porcelain tile (PC Amount R150.00/m2)</u>					
On floors and landings	m2	26	R	-	
Tile skirting 100mm high	m	35	R	-	
<u>BILL NO. 9</u>					
<u>PLUMBING AND DRAINAGE</u>					
<u>(CPAP FORMULA WORK GROUP 148)</u>					
<u>RAINWATER DISPOSAL</u>					
<u>0.6mm Galvanised sheet iron with chromadek finish</u>					
100 x 125mm Galvanised gutter fixed to rafter feet	m	8	R	-	
Extra on 100 x 125mm square gutter for stop ends	No	2	R	-	
Extra on 100 x 125mm square gutter for outlet to 60mm diameter downpipe	No	2	R	-	
60mm diameter rainwater downpipe	m	10	R	-	
Extra on 60mm rainwater downpipe for shoe	No	2	R	-	
Extra over 60mm rainwater pipe for eaves offset	No	2	R	-	
<u>SANITARY FITTINGS (to be similar or approved)</u>					
<u>New sanitary fittings, to be similar or approved, etc including connecting pipes to fittings and making good floor and wall finishes</u>					
Wash hand basin	No	2	R	-	
WC pan with cistern	No	2	R	-	
WC pan connector	No	2	R	-	
Wall hung urinal with flush valve	No	1	R	-	
<u>WASTE UNIONS ETC</u>					
32mm Basin waste	No	2	R	-	
<u>TRAPS ETC</u>					
<u>Marley or Similar approved</u>					
32mm Reseal "P" or "S" trap	No	2	R	-	
<u>Brass</u>					
Fullway gate valve	No	4	R	-	
<u>"Cobra Watertech" or Similar approved</u>					
Chrome Plated single taphole basin mixer	No	2	R	-	
Chrome Plated bath mixer with hand shower	No	3	R	-	
Chrome Plated shower rose	No	3	R	-	
Chrome Plated overhead shower arm	No	3	R	-	
"Flushmaster Junior" toilet flush valve	No	2	R	-	
"Flushmaster Junior" urinal flush valve	No	2	R	-	

<u>SANITARY PLUMBING</u>					
<u>uPVC Pipes</u>					
50mm Pipes	m	10	R	-	
110mm Pipes	m	5	R	-	
<u>Extra over uPVC pipes for fittings:</u>					
50mm Bend	No	5	R	-	
110mm Bend	No	2	R	-	
50mm Junction	No	5	R	-	
110mm Junction	No	2	R	-	
50mm Inspection junction	No	5	R	-	
110mm Inspection junction	No	2	R	-	
50mm Reducing junction	No	5	R	-	
110mm Reducing junction	No	2	R	-	
110mm pan connector	No	2	R	-	
110mm "GI Two way" vent valve	No	1	R	-	
50mm "GI Two way" vent valve	No	1	R	-	
<u>HOT AND COLD WATER SERVICES</u>					
<u>Class 1 copper (hard drawn) pipes</u>					
15mm Pipes	m	20	R	-	
15mm Pipes chased into brick walls	m	6	R	-	
22mm Pipes	m	25	R	-	
22mm Pipes chased into brick walls	m	12	R	-	
<u>Extra over class 1 copper (hard drawn) pipes for capillary fittings</u>					
15mm Fittings	No	15	R	-	
22mm Fittings	No	10	R	-	
<u>TESTING</u>					
Testing water pipe system	Item	1	R	-	
Testing sewer/waste pipe system	Item	1	R	-	
<u>FIRE APPLIANCES ETC</u>					
9kg Dry chemical fire extinguisher	No	1	R	-	
<u>BILL NO.10</u>					
<u>GLAZING</u>					
<u>GLAZING TO METAL / WOOD WITH PUTTY OR BEADS</u>					
<u>4mm Patterned glass</u>					
Panes exceeding 0,5m2 and not exceeding 2m2	m2	2	R	-	
<u>MIRRORS, ETC</u>					
<u>6mm Silvered float glass copper backed mirrors with 10 mm bevelled and polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u>					
Mirror 450 x 600mm high	No	1	R	-	
<u>BILL NO.11</u>					
<u>PAINTWORK</u>					
<u>PREPARATORY WORK TO EXISTING WORK</u>					
<u>PAINTWORK ETC TO PREVIOUSLY PAINTED WORK</u>					
Note: All paintwork to be "Dulux" or similar approved product					
<u>On Floated Plaster</u>					

<u>Apply two coats of Acrylic PVA emulsion paint on work previously painted</u>					
On internal walls	m2	80	R	-	
On Window Cills	m2	1	R	-	
<u>ON PLASTERBOARD</u>					
<u>One coat primer and two coats interior quality PVA emulsion paint</u>					
On ceilings and cornices	m2	26	R	-	
<u>ON FIBRE-CEMENT</u>					
<u>One coat primer and two coats exterior quality PVA emulsion paint</u>					
On fascias and barge boards not exceeding 300 mm girth	m	16	R	-	
<u>On Metal</u>					
<u>Prepare and apply one undercoat and two finishing coats of gloss paint on metalworks</u>					
On door frames	m2	4	R	-	
On windows with burglar bars	m2	2	R	-	
<u>ON WOOD</u>					
<u>Prepare and apply one coat wood primer, one undercoat and one finishing coat alkyl enamel paint in colours which have a value of 7 or less on the Munsell system in accordance with SABS 1091</u>					
On doors	m2	16	R	-	
<u>PROTECTIVE ROOFING PAINT</u>					
<u>Two coats "Silvakote" bituminous aluminium paint</u>					
On waterproofing to roofs	m2	26	R	-	
SECTION 3:TOTAL COMPREHENSIVE RENOVATION OF THE WATERBORNE TOILET FOR MASOMBUKA				R	-
<u>SECTION NO. 4</u>					
<u>EXTERNAL WORKS</u>					
<u>BILL NO. 2</u>					
<u>STEEL PALISADE GATES</u>					
<u>EARTHWORKS (PROVISIONAL)</u>					
<u>SITE CLEARANCE ETC</u>					
<u>Site clearance</u>					
Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	10	R	-	
Stripping average 150mm thick layer of top soil and stockpiling on site	m2	10	R	-	
<u>CONCRETE</u>					
<u>MASS CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
<u>25MPa/19mm concrete</u>					
Surface blinding under inside palisade gate rail	m3	2	R	-	
<u>STANDARD PREAMBLES</u>					
The contractor is referred to the Model Preambles for Trades (2008 edition) as issued the Association of South African Quantity Surveyors before pricing this bill					
<u>STEEL PALISADE FENCE GATES</u>					
<u>Industrial standard palisade fencing including site clearance and ground preparation</u>					
<u>Gates, screens, etc.</u>					
<u>Extra over palisade fencing for gates</u>					
Single sliding gate 5000 x 1800mm high of 50 x 50 x 2mm hollow section frame and 50 x 50 x 2mm hollow section horizontal middle rail, filled in with vertical cold rolled steel "C" channels of varying sizes 76 x 38 x 3mm, 50 x 25 x 2mm and 25 x 25 x 2mm; barfitted with a pair of 25mm diameter x 80mm long pin hinges welded to post; Secure lockbox for and including 5 lever lockset with deadbolt.	No	1	R	-	
<u>PAINTWORK</u>					

<u>Prepare and apply one coat zinc chromate primer and two coats bituminous paint</u>	H3			
On steel palisade gates and framing (both sides measured flat)	m2	9	R	-
IRONMONGERY				
<u>Locks</u>				
63mm Brass five pin tumbler padlock with two keys (Provisional)	No	1		0.00
SECTION 4: EXTERNAL WORKS- TOTAL STEEL PALISADE GATES				0.00

<u>SECTION NO. 5</u>				
<u>BILL NO. 1</u>				
<u>PROVISIONAL SUMS</u>				
<u>NOTES:</u>				
1.The Contractor's attention is drawn specifically to the Principal Building Agreement Clause 20.0 (Nominated Sub-Contractors), Clause 21.0 (Selected Sub-Contractors) and Clause 22 (Work by Others) and to the related Clauses in Section 1, Bill No. 1 - Preliminaries				
2.The Contractor's attention is drawn also to the definition of attendance on Nominated or Selected Sub-Contractors and of fuel, power and water for commissioning of mechanical and other specialised installations given in the JBCC Preliminaries				
3.Where special attendance includes the provision of hoisting facilities for a Sub-Contractor then the Contractor shall:-				
*Ensure that the capacities of his hoisting equipment are sufficient to deal with the masses and the quantities of the items to be hoisted,				
*Schedule the times of availability of the hoisting equipment for each Sub-Contractor,				
*Provide all necessary personnel to operate the hoisting equipment,				
all to enable the Sub-Contractor to execute the hoisting or lowering of his material, etc. using the facilities provided by the Contractor				
4.Under no circumstances may any Provisional Amount, etc. be extended at an amount lower than the amount given in this Bill				
Provisional sums will only be used with the prior approval of the Mpumalanga Department of Public Works, Roads and Transport				
<u>Provisional sums will only be used with the prior approval of the Mpumalanga Department of Public Works, Roads and Transport</u>				
<u>WATER RETICULATION TO ABLUTIONS</u>				
Allow a provisional sum of R 10 000 for water reticulation , re-measurable on site	Item	1	R	-
Profit	Item	10.0%	R	-
Attendance	Item	5.0%	R	-
<u>SEWER RETICULATION AND UNBLOCKING OF SEWER DRAINS TO ABLUTIONS INCLUDING MUNICIPAL CONNECTION TO EXISTING SEWER LINE</u>				
Provide the amount of R 20 000.00 (Twenty Thousand Rands) for Sewer reticulation, municipal connection etc	Item	1	R	-
Profit	Item	10%	R	-
Allow for general attendance	Item	5%	R	-
<u>ELECTRICAL INSTALLATIONS TO ABLUTIONS</u>				
provisional the amount of R 20 000.00 (Twenty Thousand Rands) for electrical works and all accessories including stripping off the existing damaged wiring	Item	1	R	-
Profit	Item	10%	R	-
Attendance to the contractor	Item	5%	R	-
SECTION 5: TOTAL PROVISIONAL SUM			R	-

SECTION 1: TOTAL PRELIMINARIES	Sum	1		R	-
SECTION 2: TOTAL COMPREHENSIVE RENOVATION OF THE WATERBORNE TOILET AND KITCHEN FOR JAMELA	Sum	1		R	-
SECTION 3: TOTAL COMPREHENSIVE RENOVATION OF THE WATERBORNE TOILET FOR MASOMBUKA	Sum	1		R	-
EXTERNAL WORKS- TOTAL STEEL PALISADE GATES	Sum	1		R	-
SECTION 5: TOTAL PROVISIONAL SUM	Sum	1		R	-
SUB TOTAL (A)	ST	0		R	-
COMMUNITY LIASON OFFICER					
Provide the amount for the appointment of community liason officer (R7 500.00 x 2 Months)	Item	1		R	-
SUB TOTAL (B)	ST	0		R	-
CONTIGENCY					
Allow 2.5% Contingecies	Item	1		R	-
SUB TOTAL (C)	ST	0		R	-
Add: Value Added Tax @ 15.0%	TAX	15%		R	-
TOTAL				R	-