

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
FOR COGTA KZN**

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 1</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>			
<p><u>BUILDING AGREEMENT AND PRELIMINARIES</u></p> <p>The JBCC Series 2000 Principal Building Agreement (July 2007 edition 5.0) prepared by the Joint Building Contract Committee shall be the applicable building agreement, amended as hereinafter described</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 full intent and meaning of each clause thereof</p> <p>These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the above mentioned documents</p> <p>Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"</p>			
<p align="right">Carried Forward</p>			
<p>Section No. 1 Bill No. 1 Preliminaries and Generals</p>			
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Brought Forward				R
<u>PREAMBLES FOR TRADES</u>				
<p>The Model Preambles for Trades (2017 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>				
<u>PRICING OF PRELIMINARIES</u>				
<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>				
<u>SECTION A - PRINCIPAL BUILDING AGREEMENT</u>				
<u>Definitions</u>				
1	<p>Clause 1.0 - Definitions and interpretation</p> <p>F:..... V:..... T:.....</p>	Item		
<u>Objective and preparations</u>				
2	<p>Clause 2.0 - Offer acceptance and performance obligations</p> <p>F:..... V:..... T:.....</p>	Item		
3	<p>Clause 3.0 - Documents</p> <p>F:..... V:..... T:.....</p>	Item		
Carried Forward				
<p>Section No. 1 Bill No. 1 Preliminaries and Generals</p>				
				R

Brought Forward			R
4	Clause 4.0 - Design responsibility F:..... V:..... T:.....	Item	
5	Clause 5.0 - Employer's agents F:..... V:..... T:.....	Item	
6	Clause 6.0 - Contractor's site representative F:..... V:..... T:.....	Item	
7	Clause 7.0 - Compliance with laws and regulations F:..... V:..... T:.....	Item	
8	Clause 8.0 - Works risk F:..... V:..... T:.....	Item	
9	Clause 9.0 - Indemnities F:..... V:..... T:.....	Item	
10	Clause 10.0 - General insurances F:..... V:..... T:.....	Item	
11	Clause 11.0 - Special insurances F:..... V:..... T:.....	Item	
12	Clause 12.0 - Effecting insurances F:..... V:..... T:.....	Item	
13	Clause 13.0 - Assignment F:..... V:..... T:.....	Item	
14	Clause 14.0 - Security F:..... V:..... T:.....	Item	
Carried Forward			R
Section No. 1 Bill No. 1 Preliminaries and Generals			

	Brought Forward		R
	<u>Execution</u>		
15	Clause 15.0 - Preparation for and execution of the works F:..... V:..... T:.....	Item	
16	Clause 16.0 - Site and access Clause 16.7 - <i>Known services</i> Clause 16.8 - <i>Protection of trees</i> F:..... V:..... T:.....	Item	
17	Clause 17.0 - Contract instructions F:..... V:..... T:.....	Item	
18	Clause 18.0 - Setting out of the works The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments F:..... V:..... T:.....	Item	
19	Clause 19.0 - Temporary works and plant Subclause 19.1.1 - <i>Enclosure of the works</i> Subclause 19.1.2 - <i>Office accommodation</i> Clause 19.2 - <i>Notice boards</i> F:..... V:..... T:.....	Item	
20	Clause 20.0 - Nominated subcontractors F:..... V:..... T:.....	Item	
21	Clause 21.0 - Selected subcontractors F:..... V:..... T:.....	Item	
22	Clause 22.0 - Employer's direct contractors F:..... V:..... T:.....	Item	
	Carried Forward		R
	Section No. 1 Bill No. 1 Preliminaries and Generals		

	Brought Forward		R
23	<p>Clause 23.0 - Contractor's domestic subcontractors</p> <p>F:..... V:..... T:.....</p> <p><u>Completion</u></p>	Item	
24	<p>Clause 24.0 - Practical completion</p> <p>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</p> <p>F:..... V:..... T:.....</p>	Item	
25	<p>Clause 25.0 - Works completion</p> <p>F:..... V:..... T:.....</p>	Item	
26	<p>Clause 26.0 - Final completion</p> <p>F:..... V:..... T:.....</p>	Item	
27	<p>Clause 27.0 - Latent defects liability period</p> <p>F:..... V:..... T:.....</p>	Item	
28	<p>Clause 28.0 - Sectional completion</p> <p>F:..... V:..... T:.....</p>	Item	
29	<p>Clause 29.0 - Revision of date for practical completion</p> <p>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 contract value (Clause 29.3)</p> <p>F:..... V:..... T:.....</p>	Item	
30	<p>Clause 30.0 - Penalty for late or non-completion</p> <p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
	<p>Section No. 1 Bill No. 1 Preliminaries and Generals</p>		

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
FOR COGTA KZN**

		Brought Forward		R
	<u>Payment</u>			
31	<p>Clause 31.0 - Interim payment</p> <p>The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.4 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank. Clause 31.6.5 is therefore not applicable</p> <p>Materials and goods stored off site shall not be included in the amount authorised for payment</p> <p>F:..... V:..... T:.....</p>	Item		
32	<p>Clause 32.0 - Adjustment to the contract value</p> <p>All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor</p> <p>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 contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final payment certificate, it shall be in writing</p> <p>F:..... V:..... T:.....</p>	Item		
33	<p>Clause 33.0 - Recovery of expense and loss</p> <p>F:..... V:..... T:.....</p>	Item		
34	<p>Clause 34.0 - Final account and final payment</p> <p>F:..... V:..... T:.....</p>	Item		
35	<p>Clause 35.0 - Payment to other parties</p> <p>F:..... V:..... T:.....</p>	Item		
		Carried Forward		R
	<p>Section No. 1 Bill No. 1 Preliminaries and Generals</p>			

Brought Forward		R
<u>Termination</u>		
36	Clause 36.0 - Termination by employer - contractor's default F:..... V:..... T:.....	Item
37	Clause 37.0 - Termination by employer - loss and damage F:..... V:..... T:.....	Item
38	Clause 38.0 - Termination by contractor - employer's default F:..... V:..... T:.....	Item
39	Clause 39.0 - Termination - cessation of the works F:..... V:..... T:.....	Item
<u>Dispute</u>		
40	Clause 40.0 - Settlement of disputes F:..... V:..... T:.....	Item
<u>Contract agreement</u>		
41	Clause 41.0 - Post tender provisions	Item
42	Clause 42.0 - Contractual agreement	Item
<u>SECTION B - PRELIMINARIES</u>		
<u>Definitions and interpretation</u>		
43	Clause 1.0 - Definitions and interpretation F:..... V:..... T:.....	Item
<u>Documents</u>		
44	Clause 2.1 - Checking of documents F:..... V:..... T:.....	Item
Carried Forward		R
Section No. 1 Bill No. 1 Preliminaries and Generals		

	Brought Forward		R
45	<p>Clause 2.2 - Provisional bills of quantities</p> <p>These bills of quantities are in multiple procurement format ie the "wet trades" - earthworks, concrete, formwork and reinforcement, precast concrete, masonry, waterproofing and sub-surface drainage - are provisionally measured and the subsequent trades are budgetary allowances</p> <p>F:..... V:..... T:.....</p>	Item	
46	<p>Clause 2.3 - Availability of construction documentation</p> <p>The budgetary allowances and selected (nominated) subcontract amounts allocated for subsequent trades included in this document will be separately procured, based on multiple procurement of selected (nominated) subcontractors during the construction period</p> <p>F:..... V:..... T:.....</p>	Item	
	<u>Previous work and adjoining properties</u>		
47	<p>Clause 3.1 - Previous work - dimensional accuracy</p> <p>F:..... V:..... T:.....</p>	Item	
48	<p>Clause 3.2 - Previous work - defects</p> <p>F:..... V:..... T:.....</p>	Item	
49	<p>Clause 3.3 - Inspection of adjoining properties</p> <p>F:..... V:..... T:.....</p>	Item	
	<u>Samples, shop drawings and manufacturer's instructions</u>		
50	<p>Clause 4.1 - Samples of materials</p> <p>F:..... V:..... T:.....</p>	Item	
51	<p>Clause 4.2 - Workmanship samples</p> <p>F:..... V:..... T:.....</p>	Item	
52	<p>Clause 4.3 - Shop drawings</p> <p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
	<p>Section No. 1 Bill No. 1 Preliminaries and Generals</p>		

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
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	Brought Forward		R
53	Clause 4.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....	Item	
	<u>Deposits and fees</u>		
54	Clause 5.1 - Deposits and fees F:..... V:..... T:.....	Item	
	<u>Temporary services</u>		
55	Clause 6.1 - Water F:..... V:..... T:.....	Item	
56	Clause 6.2 - Electricity F:..... V:..... T:.....		
	Note: It is the Contractor;'s responsibility for providing temporary power in both buildings during the construction period which may include providing adequate temporary lighting, plugs, DBs and if necessary a small portable generator to be metered.	Item	
57	Clause 6.3 - Telecommunication facilities F:..... V:..... T:.....	Item	
58	Clause 6.4 - Ablution facilities F:..... V:..... T:.....	Item	
	<u>Prime cost amounts</u>		
59	Clause 7.1 - Responsibility for prime cost amounts F:..... V:..... T:.....	Item	
	<u>Special attendance on n/s subcontractors</u>		
60	Clause 8.1 - Special attendance F:..... V:..... T:.....	Item	
	Carried Forward		R
	Section No. 1 Bill No. 1 Preliminaries and Generals		

Brought Forward		R
<u>General</u>		
61	Clause 9.1 - Protection of the works F:..... V:..... T:.....	Item
62	Clause 9.2 - Protection/isolation of existing/sectionally occupied works F:..... V:..... T:.....	Item
63	Clause 9.3 - Security of the works F:..... V:..... T:.....	Item
64	Clause 9.4 - Notice before covering work F:..... V:..... T:.....	Item
65	Clause 9.5 - Disturbance F:..... V:..... T:.....	Item
66	Clause 9.6 - Environmental disturbance The employer has prepared an environmental management plan . The contractor shall price opposite this item for compliance with all the requirements of such environmental management plan F:..... V:..... T:.....	Item
67	Clause 9.7 - Works cleaning and clearing F:..... V:..... T:.....	Item
68	Clause 9.8 - Vermin F:..... V:..... T:.....	Item
69	Clause 9.9 - Overhand work F:..... V:..... T:.....	Item
Carried Forward		R
Section No. 1 Bill No. 1 Preliminaries and Generals		

	Brought Forward	
<u>Schedule of variables</u>		
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 [clause 2.2] The quantities are provisional	Yes	
10.2 - Availability of construction documentation [clause 2.3] Construction documentation is complete	Yes	
10.3 - Previous work - dimensional accuracy [clause 3.1]		
10.4 - Previous work - defects [clause 3.2]		
10.5 - Inspection of adjoining properties [clause 3.3]		
10.6 - Water [clause 7.2]		
Option A (by contractor)	Yes	
Option B (by employer - free of charge)	No	
Option C (by employer - metered)	No	
10.7 - Electricity [clause 7.3]		
Option A (by contractor)	Yes	
Option B (by employer - free of charge)	No	
Option C (by employer - metered)	No	
10.8 - Telecommunications [clause 7.4]		
Telephone	Yes	
Facsimile	Yes	
E-mail	Yes	
Carried Forward		
Section No. 1 Bill No. 1 Preliminaries and Generals		R

	Brought Forward		R
72	<p>Co-operation of contractor for cost management</p> <p>It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The principal agent undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedure to be implemented and the contractor shall attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures, as necessary, to all subcontractors</p> <p>F:..... V:..... T:.....</p>	Item	
73	<p>Propping of floors below</p> <p>The contractor is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of materials and goods and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the principal agent and the cost thereof shall be borne by the contractor</p> <p>F:..... V:..... T:.....</p>	Item	
74	<p>Proprietary branded products</p> <p>The contractor shall take delivery of, handle, store, use, apply and/ or fix all proprietary branded products in strict accordance with the manufacturer's authorised representative.</p> <p>F:..... V:..... T:.....</p>	Item	
75	<p>Overtime</p> <p>Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.</p> <p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
	<p>Section No. 1 Bill No. 1 Preliminaries and Generals</p>		

Brought Forward		R
76	<p>Labour Record</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all sub-contractors on the works each day.</p> <p>F:..... V:..... T:.....</p>	Item
77	<p>Special Works/ Direct Contractors</p> <p>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. 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 Employer's employees to have access to the works, allocate reasonable space for the storage of their materials, tools and equipment, and co-ordinate the work of such Direct Contractors as necessary, all to the satisfaction of the Principal Agent. The Contractor shall also allow the Direct Contractors, etc., to use, free of charge, the latrine accommodation and water and power supply on the site, and shall not in any way hinder or prevent the execution of their work.</p> <p>F:..... V:..... T:.....</p>	Item
78	<p>Guarantees and Maintenance Manuals</p> <p>The Contractor shall obtain and handover to the Principal Agent on Practical Completion all relevant guarantees, any operating and maintenance instruction manuals, data or instructions required by the Principal Agent or provided by the manufacturer's, suppliers or sub-contractors.</p> <p>The contractor shall ensure that all warranties and guarantees received are fully ceded to the Employer on Final Completion, failing which the release of the Construction Guarantee will be withheld until this is satisfactorily completed.</p> <p>F:..... V:..... T:.....</p>	Item
Carried Forward		R
<p>Section No. 1 Bill No. 1 Preliminaries and Generals</p>		

	Brought Forward		R
79	<p>Removal and Making Good of Temporary Works, etc., on Completion</p> <p>The Contractor shall remove all temporary works, roads, services and the like used for this Contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.</p> <p>F:..... V:..... T:.....</p>	Item	
80	<p>Location of Temporary Buildings and temporary Services</p> <p>The Contractor shall provide all necessary temporary works, including temporary roads, trucks, crossings, hardstanding and services, etc., required for his own and sub-contractors use during the construction and maintenance period.</p> <p>There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.</p> <p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
	<p>Section No. 1 Bill No. 1 Preliminaries and Generals</p>		

	Brought Forward		R
81	<p>Making Good</p> <p>All materials and workmanship in building up, making good, etc., are to match existing and where new materials abutt existing, they are to be neatly jointed to same.</p> <p>'Making good' existing work where disturbed or damaged shall mean the provision of the necessary new material to match existing and the necessary workmanship so that a complete restoration is achieved to the satisfaction of the Principal Agent.</p> <p>'Making good' where abutting walls, etc., are removed, shall mean the provision of the necessary material and workmanship in filling the gaps to match surrounding finishes so that a complete and perfect surface, continuous with surrounding surfaces and matching of same, is obtained to the Principal Agents satisfaction.</p> <p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
	<p>Section No. 1 Bill No. 1 Preliminaries and Generals</p>		

82	<p align="center">Brought Forward</p> <p>Occupational Health and Safety</p> <p>The contractor shall for the duration of the Contract:</p> <ol style="list-style-type: none"> 1. Comply with the health and safety specification for the works 2. Prepare and agree with the health and safety consultant the health and safety plan for the works 3. Cooperate with the health and safety consultant in all respects 4. Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification 5. Conform to the conditions contained in the employer's health and safety specification <p>Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. 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 [2.1]</p> <p>An Occupational Health and Safety Specification is attached (Annexure 13A) and the tenderer is expected to include for all expenses necessary to comply with the requirements of this document. A health and safety BOQ is attached for reference and inclusion in this item (Annexure 13B)</p> <p>F:..... V:..... T:.....</p> <p><u>SUMMARY OF CATEGORIES</u></p> <p>Category : Fixed R 29 520.58.....</p> <p>Category : Value R 44280.87.....</p> <p>Category : Time R 221 404.35.....</p> <p align="right">Carried to Final Summary</p> <p>Section No. 1 Bill No. 1 Preliminaries and Generals</p>	Item	R	
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Item No	Quantity	Rate	Amount
<u>BILL NO. 1</u>			
<u>DEMOLITIONS</u>			
The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities			
<u>Trade names</u>			
Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Old material from demolitions</u>			
Old material will not be re-used and will be credit of the contractor.			
<u>DEMOLITION OF EXISTING STRUCTURES</u>			
<u>Break down and remove existing structures, including cart away from site, backfilling and compaction where required, etc</u>			
1	Carefully break down and remove an existing ablution block constructed of brick wall or block wall overall building approximately size 2500mm long x 2000mm wide x 2500mm high including removing mon pitch roofs, concrete floors, doors, ablution seats, urinal etc., including backfilling and compacting ablution pits	No	2.00
2	Honey sucking sewerage from ablution pit including carting away from site and depositing to a dedicate dumping sewerage site in the Alfred Duma Local Municipality oruThukela District	ltr	10 000
3	Provision for a dumping certificate.	Item	
Carried Forward to Summary of Section No. 2			R
Section No. 2 Bill No. 1 Demolitions			

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
FOR COGTA KZN**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 2</u>			
	<u>ALTERATIONS</u>			
	The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities			
	<u>Trade names</u>			
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description			
	<u>REMOVAL OF EXISTING WORK</u>			
	Rate to include removal of brick reinforcement and wall finishes			
	<u>Breaking down and removing brickwork or blockwork, etc</u>			
1	140mm Blockwall	m2	54	
2	Half brickwall	m2	7	
	<u>Taking out and removing doors, windows, etc including thresholds, sills, etc and building up openings in brick walls including making good cement plaster on both sides (making good paintwork elsewhere)</u>			
3	Timber single door and frame not exceeding 2,5m ²	No	2	
4	Galvanized mild steel gate size 900 x 2100mm high	No	1	
	<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>			
5	Concrete roof tiles and setting aside for re-use	m2	156	
6	Gypsum plasterboard ceilings including cornices, timber bandering, etc	m2	82	
	Carried Forward			
	Section No. 2 Bill No. 2 Alterations		R	

Brought Forward			R
<u>Taking down and removing sundry roof items:</u>			
7	Fibre cement or timber fascias and barge boards	m	54
<u>Taking off and removing piping, gutters:</u>			
8	Eaves gutter and brackets	m	37
9	Rainwater pipes and holder bats	m	12
<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>			
10	Ceramic floor tiles	m2	82
<u>REFURBISH EXISTING DOORS AND WINDOWS</u>			
<u>Thoroughly clean frame and casement by sanding down and refurbish existing steel windows and doors and removing flaking paint to receive new paint (elsewhere measured), tough up where exposed with calcium plumbate and install new neoprene gasket acoustic seal including proving stays, hinges etc</u>			
11	Timber door size 813 x 2032mm high	No	4
12	Steel window size 1000 x 1800mm high	No	10
13	Galvanized mild steel gate size 900 x 2100mm high	No	4
<u>MAKING GOOD OF FINISHES ETC</u>			
<u>Making good brickwork</u>			
14	Making good plaster where brickwork is removed	m	2
15	Making good screed where ceramic tiles have been removed	m2	82
<u>BUILDING UP OPENINGS</u>			
<u>Brickwork in NFP bricks in class II mortar in building up openings</u>			
16	One brickwall in stretcher bond	m2	2
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 2			
Alterations			

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 3</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>				
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Formwork</u></p> <p>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p> <p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>Formworks to soffits of solid floors etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</p>				
	<p>Carried Forward</p>				R
	<p>Section No. 2 Bill No. 3 Concrete, Formwork and Reinforcement</p>				

Brought Forward				R
<u>STORMWATER CHANNELS</u>				
<u>Smooth finished in-situ reinforced concrete 25Mpa/19mm channels</u>				
1	1000 x 100mm High smooth finished open V-shaped channels to engineer's detail, cast in alternative panels to falls including shallow excavations, carting away surplus material, shaping and grading ground as required including mesh Ref 193, and all necessary formwork, expansion / movement joint material and sealing thereof	m	50	
<u>CONCRETE TESTING</u>				
2	Allow for making set of (6) six concrete test cubes, sending to an approved testing authority for testing and paying all charges in connection therewith	No	1	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
Bill No. 3				
Concrete, Formwork and Reinforcement				

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
FOR COGTA KZN**

Item No	Unit	Quantity	Rate	Amount
<u>BILL NO. 4</u>				
<u>MASONRY</u>				
The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
<u>Trade names</u>				
Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>BRICKWORK</u>				
<u>Sizes in descriptions</u>				
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick				
<u>Face bricks</u>				
Bricks shall be ordered timeously to obtain uniformity in size and colour				
<u>SUPERSTRUCTURE</u>				
<u>Brickwork of NFP bricks in class II mortar</u>				
1	m2	10		
<u>Brick reinforcement</u>				
2	m	31		
<u>Pre-stressed concrete lintels</u>				
3	m	1		
Carried Forward to Summary of Section No. 2				R
Section No. 2 Bill No. 4 Masonry				

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 5</u></p> <p><u>ROOF COVERINGS, ETC</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>				
	<p><u>PROFILED METAL SHEETING AND ACCESSORIES</u></p> <p>Profiled metal roof coverings fixed with interlocking profile and clip fixing system. Sheeting shall be fixed to timber purlins in accordance with the manufacturer's instructions.</p> <p>Prices for sheeting are to include for all straight cutting and waste, laps, protecting from damage and cleaning down at completion - all in strict accordance with manufacturer's instructions and to the approval of the Head : Works.</p> <p>Prices for ridges, closers, etc. are to include for all cutting and fitting at ends, etc.</p> <p><u>Note : All roof coverings installed are to comply with SABS Code of Practice 0237 as applicable. All roof sheeting shall be laid under a five year written guarantee for site workmanship and water tightness</u></p> <p><u>Double roman concrete roof tiles</u></p>				
1	Reinstatement of concrete roof tiles to pitch not exceeding 25 degrees nailed with non corrosive tile nails to 38 x 38mm sawn softwood battens (previously installed)	m2	156		
	Carried Forward				R
	Section No. 2 Bill No. 5 Roof Coverings, etc				

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
FOR COGTA KZN**

Brought Forward				R
2	Replacement of missing 420 x 332mm Marley Double Roman concrete tiles or equal approved tiles (matching existing roof tiles) nailed with non-corrosive tile nails to and including 38 x 38mm sawn softwood battens at 760mm centres	m2	10	
<u>Ridge capping</u>				
3	Concrete ridge tile to match existing concrete roof tiles	m	19	
<u>Roof underlays</u>				
4	Sisalation 420 heavy industrial grade aluminium foil based insulation fixed in strict accordance with the manufacturer's instructions	m2	156	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
Bill No. 5				
Roof Coverings, etc				

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 6</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>				
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Particle board:</u></p> <p>Particle board shall comply with the following specifications:</p> <p>SABS EN 317 Parts 1 to 7 for exterior, interior and flooring type particleboard</p> <p><u>Joinery:</u></p> <p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p>				
	Carried Forward				R
	<p>Section No. 2 Bill No. 6 Carpentry and Joinery</p>				

Brought Forward				R
<u>Decorative laminate finish:</u>				
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish				
Decorative laminates are to comply with SABS 1S0 4586 and SABS 1405				
<u>ROOFS ETC</u>				
<u>Wrot softwood</u>				
1	150 x 38mm Ridge board in lengths exceeding 2.4m but not exceeding 6m	m	19	
<u>Sundries</u>				
2	Two coats ABE "Provonite" on sawn timbers at eaves	m2	50	
<u>FASCIAS, ETC</u>				
<u>Fibre cement medium density fibre-cement or other approved</u>				
3	225 x 12mm Barge boards including jointing with PVC H-profile barge joiners	m	18	
4	225 x 12mm Fascias screwed to rafter ends with 12 x 40mm countersunk brass screws at 900mm centres to support battens with PVC H-profile fascia joiners	m	37	
<u>DOORS</u>				
<u>Solid core laminated double door with rebated meeting edges faced with 6mm tempered hardwood & 10mm hardwood edging suitable for painting both sides</u>				
5	Door size 813 x 2032mm high	No	1	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
Bill No. 6				
Carpentry and Joinery				

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
FOR COGTA KZN**

Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO. 7</u>				
	<u>CEILINGS AND PARTITIONS</u>				
	The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	<u>Trade names</u>				
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description				
	<u>NAILED UP CEILINGS</u>				
	<u>6,4mm Rhinoboard or equally approved ceilings fixed to 38 x 38mm brading at maximum 400cc including "H" profile jointing strips all to manufacturer's instructions</u>				
1	Ceilings	m2	82		
2	Extra over ceiling for forming trapdoor 600 x 600mm dinged pressed metal with 38 x 50mm sawn softwood braced framing	No	1		
	<u>CORNICE</u>				
3	48 x 22mm rebated hard wood cornice nailed to wall	m	79		
	Carried Forward to Summary of Section No. 2				R
	Section No. 2				
	Bill No. 7				
	Ceilings, Partitions and Access Flooring				

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
FOR COGTA KZN**

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 8</u></p> <p><u>IRONMONGERY</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>				
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Finishes to ironmongery</u></p> <p>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 Sanded</p> <p><u>UNION LOCKS OR EQUAL APPROVED</u></p>				
1	<p>Four lever mortice lockset and furniture fixed to door with anti theft screws and satin chrome handles</p>	No	1		
	<p><u>SIGNAGE</u></p> <p><u>5mm Perspex plate with symbols with square polished edges, approved colour background and reverse engraved in plate and fixed to wood with four chromium plated self tapping screws.</u></p>				
2	<p>150 x 150 mm Lettering not more than 15 letters fixed to wall with double sided adhesive tape</p>	No	4		
	Carried Forward				
	<p>Section No. 2 Bill No. 8 Ironmongery</p>				R

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
FOR COGTA KZN**

Brought Forward			R
3	150 x 150 SABS approved clear perspex signs for fire, escape arrows and danger warnings, with design screen printed on back, fixed to surface with screws	No	4
<u>SUNDRIES</u>			
4	38mm Diameter rubber door stops with 50mm long brass screws plugged into concrete or masonry.	No	5
5	55mm x 30mm x 5mm Thick Tough plastic re-usable key tag complete with 25mm diameter stainless steel split ring, paper insert, etc.	No	5
<u>50mm Vintage Venetian Blinds or other approved window blinds with a 51 high x 57mm deep stove enamelled roll formed headrail and a fully enclosed stove enamelled roll formed bottom rail 20mm high x 50mm deep</u>			
6	Blinds for window type W01 size 1200 x 1800mm high	No	10
<u>FIRE EXTINGUISHER</u>			
<u>Fire extinguisher</u>			
7	4.5Kg fire extinguisher, DPC SABS approved or certified	No	4
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 8			
Ironmongery			

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 9</u></p> <p><u>METALWORK</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>				
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p>NOTE : Pressed steel door frames shall be supplied with three 100mm steel washered brass butt hinges and frames for two leaved doors with three pairs of 100mm steel washered brass butt hinges</p> <p>Transomes for fanlights shall be fitted with a pair of 75mm steel washered butt hinges</p>				
	Carried Forward				R
	<p>Section No. 2 Bill No. 9 Metalwork</p>				

	Brought Forward			R	
	<p><u>The following items to be priced in accordance with the above schedules to include all items viz., frame, sealing, ironmongery, protection, etc., complete (glazing and painting elsewhere measured)</u></p>				
	<p><u>GALVANISED STEEL DOOR FRAMES</u></p>				
	<p><u>1,2mm Double rebated pressed steel frames suitable for one brick wall</u></p>				
1	<p>Frame for door size 813 x 2032mm high with 2 x 100mm loose pin hinges welded in position.</p>	No	1		
	<p align="right">Carried Forward to Summary of Section No. 2</p> <p>Section No. 2 Bill No. 9 Metalwork</p>			R	

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
FOR COGTA KZN**

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 10</u></p> <p><u>METALWORK</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>			
	<p><u>FLOOR TILES</u></p> <p><u>600 x 600mm Full body porcelain "Union" tiles, unglazed Anti slip resistant 10, per DIN 51130 (colour TBC), or equally approved no slip porcelain tile with 3mm joints to be laid with "Goldstar" 6 hour rapid-setting adhesive mixed 20kg with 5 litres of "Tal Bond" as per manufacturers recommendations and instructions and flush pointed with approved tile grout</u></p>			
1	On floors	m2	82	
2	75mm High skirting	m	79	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2			
	Bill No. 10			
	Tiling			

Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO. 11</u>				
	<u>PLASTERING</u>				
	The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	<u>Trade names</u>				
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description				
	<u>SCREEDS</u>				
	<u>Prepare surface and making good existing screed by applying self levelling TAL superscreed, in accordance to manufactures instructions</u>				
1	On floors	m2	82		
	<u>INTERNAL PLASTER</u>				
	<u>One coat cement plaster (1:5), 6-8mm as described on brickwork or concrete on:</u>				
2	On walls	m2	20		
	<u>EXTERNAL PLASTER</u>				
	<u>One coat cement plaster (1:5), 6-8mm as described on brickwork or concrete on:</u>				
3	On walls	m2	2		
	Carried Forward to Summary of Section No. 2				R
	Section No. 2				
	Bill No. 11				
	Plastering				

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 12</u></p> <p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>				
	<p><u>RAINWATER DISPOSAL</u></p> <p><u>Square profile aluminium seamless gutter, overall size 140 x 150 x 0,9mm thick coated internally and externally with ColourTech G4 in colour Rich Ivory including cut and mitred angles covered with a mitre strip externally, stop ends riveted and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement fascia with 20 x 3mm dual-purpose brackets at 600mm centres using aluminium peeled rivets</u></p>				
1	150 x 140mm Aluminium profile seamless gutter with baked enamel finish fixed with concealed brackets to fascia	m	37		
2	Extra over gutters for stopped ends	No	4		
3	Extra over gutter for outlet and nozzle to suit 100 x 75mm diameter pipe	No	6		
4	75mm diameter uPVC downpipe complying with SABS 11, fixed to wall with holder bats	m	24		
5	Extra over for bend	No	6		
6	Extra over for shoe	No	6		
	Carried Forward				R
	<p>Section No. 2 Bill No. 12 Plumbing and Drainage</p>				

	Brought Forward			R
	<u>SANITARY FITTINGS</u>			
	<u>Sanitary fittings complete with all waste unions, plugs, chains, etc. including building into or fixing to building structure.</u>			
	<u>Wash hand basins:</u>			
7	455 x 290mm White wash hand basin with one tap hole (LHS) including integrated overflow and chain stay hole bolted to wall with 2 No. 10mm bolts and sealed with silicone sealant where basin meets the wall with flanged backnut manufactured accordance with SANS 226:2004	No	1	
	<u>Water closets:</u>			
8	Close couple front flush WC suite with 90 degree outlet open rim pan and matching 9 litre front single flush cistern complete with lid, fitments and flush pipe bedded to floor in 1:4 cement mortar mixture including toilet seat cover (colour: white)	No	1	
	<u>TAPS, ETC.</u>			
	<u>Chrome plated:</u>			
9	15mm Chrome plated elbow action raised nose pillar tap with blue indicator for cold water manufactured in accordance with SANS 226:2004 Type 2 (BS 5412)	No	1	
	<u>WASTE UNIONS, ETC.</u>			
	<u>TRAPS, ETC.</u>			
	<u>Valves, taps etc, assembled and fixed complete</u>			
	<u>Chrome plated:</u>			
10	40mm Chrome plated deal seal bottle trap with outlet for 50mm PVC pipe (CODE: COB-345/40)	No	1	
11	40mm 316 Chrome plated un slotted bath or sink waste union	No	1	
12	22mm Brass high pressure screw down stop cock	No	1	
	Carried Forward			R
	Section No. 2 Bill No. 12 Plumbing and Drainage			

	Brought Forward				R
	<u>WATER SUPPLIES</u>				
	<u>Prices for pipes in ground are to include for excavations 700mm deep, for 100mm bed of sand under pipes and for selected backfilling with no stones larger than 15mm to 300mm above pipe before the remainder is backfilled. All backfilling is to be compacted to 93% Mod AASHTO</u>				
	<u>Class 12 polyethylene piping with Plasson fittings</u> <u>Note: Prices for 15,22 & 28mm pipework are to include for all necessary fittings, etc.</u>				
	<u>Copper piping to SABS 460 Class 0 hard drawn with gunmetal or capillary fittings</u>				
13	22mm Piping in ground including all necessary fittings	m		10	
14	22mm Piping fixed to walls or ceilings, etc	m		5	
15	15mm Piping fixed to walls or ceilings, etc	m		3	
	<u>Fittings</u>				
16	15mm Fittings	No		3	
17	22mm Fittings	No		3	
	<u>SANITARY PLUMBING</u>				
	<u>uPVC pipes for use above ground:</u>				
18	110mm Diameter pipe	m		5	
19	50mm Diameter pipe	m		5	
20	50mm Waste or vent pipe fixed to walls, etc	m		3	
21	110mm Waste or vent pipe fixed to walls, etc	m		3	
22	110mm uPVC pipe including excavation for trenches not exceeding 1.00m deep	m		15	
	<u>Extra over uPVC pipes for fittings:</u>				
23	50mm Bend	No		2	
	Carried Forward				R
	Section No. 2 Bill No. 12 Plumbing and Drainage				

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
FOR COGTA KZN**

	Brought Forward			R
24	50mm IE Bend	No	1	
25	110mm IE Bend	No	1	
26	110mm Bend	No	1	
27	110mm IE Junction	No	2	
28	110mm Gully trap	No	1	
29	110mm Pan connector	No	1	
30	110mm Roding eye	No	1	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
Bill No. 12				
Plumbing and Drainage				

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
FOR COGTA KZN**

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 11</u></p> <p><u>GLAZING</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>			
1	<p><u>MIRROR</u></p> <p>Grade 304 13mm 18/10 Stainless steel mirrors size 500 x 600 x 13mm deep concealed thief resistant fixings plugged and screwed to the wall with stainless steel screws</p>	No	1	
	<p align="right">Carried Forward to Summary of Section No. 2</p> <p>Section No. 2 Bill No. 13 Glazing</p>			R

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 13</u></p> <p><u>ELECTRICAL INSTALLATION</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>			
	<p><u>PROVISIONAL SUSM</u></p> <p><u>The following Provisional Sums are included for work not fully detailed in the drawings and specifications at the tender stage. Such work shall be executed at the rates in the Bills of Quantities or at rates to be agreed with the Principal Agent, and shall included all materiel, labour and equipment supplied and installed complete by the contractor</u></p>			
1	Provide an amount of R 20 000.00 (Twenty Thousand Rands only) for repairs to electrical installation and provision of certificate of compliance	Item		
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2 Bill No. 14 Electrical Installation			

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 14</u></p> <p><u>PAINTWORK</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>				
	<p><u>ON PREVIOUSLY PAINTED SURFACES</u></p> <p><u>ON INTERNAL WALLS</u></p> <p><u>Prepare surfaces and remove all loose material, apply prime with one coat Plaster Primer (UC 56) with an over-coating time of 16 hours and finish with two coats Dulux or other approved Double Velvet paint with 2 hours drying time between coats, for a maintenance cycle of 15 years in a C1 - inland environment (colour:TBC)</u></p>				
1	Internal plastered walls	m2	195		
	<p><u>ON EXTERNAL WALLS</u></p> <p><u>Prepare surfaces and remove all loose material, apply one coat Plaster Primer (UC 56) with an over-coating time of 16 hours and finish with two coats Dulux or other approved Double Velvet paint with 2 hours drying time between coats, for a maintenance cycle of 15 years in a C1 - inland environment (colour:TBC)</u></p>				
2	External plastered walls	m2	13		
	Carried Forward			R	
	Section No. 2 Bill No. 15 Paintwork				

Bill No	<u>SECTION SUMMARY - EXISTING OFFICE BLOCK</u>	Page No	Amount
1	Demolitions	18	
2	Alterations	20	
3	Concrete, Formwork and Reinforcement	22	
4	Masonry	23	
5	Roof Coverings, etc	25	
6	Carpentry and Joinery	27	
7	Ceilings, Partitions and Access Flooring	28	
8	Ironmongery	30	
9	Metalwork	32	
10	Tiling	33	
11	Plastering	34	
12	Plumbing and Drainage	38	
13	Glazing	39	
14	Electrical Installation	40	
15	Paintwork	43	
	Carried to Final Summary		R
	Section No. 2		

Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO. 1</u>				
	<u>EARTHWORKS (PROVISIONAL)</u>				
	The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	<u>Trade names</u>				
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description				
	<u>Scope of Work</u>				
	Foundations in this document are measured to the underside of the surface bed.				
	<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>SITE CLEARANCE ETC</u>				
1	Dig up and remove rubbish, debris, vegetation, hedges, shrubs and bush etc including trees not exceeding 200mm girth	m2	332		
2	Strip average 150mm thick layer of top soil and stockpile on site	m2	332		
	<u>SITE PREPARATION</u>				
3	Trim and level off surface of ground to receive layers of roads, paving, etc., including excavating or filling ripping and scarifying as necessary and compacting the whole area for a depth of 2 x 150mm to a density of at least 95% Mod AASHTO maximum density, part to falls	m2	225		
	Carried Forward				R
	Section No. 3 Bill No. 1 Earthworks				

	Brought Forward				R
	<u>EXCAVATION</u>				
	<u>Excavate in earth not exceeding 2,00m deep below natural fill or reduced ground level for:</u>				
4	Trenches	m3	119		
	<u>Extra over excavation other than bulk in earth for excavation in:</u>				
5	Soft rock	m3	12		
6	Hard rock	m3	6		
	<u>Risk of collapse of excavations</u>				
7	Allow for risk of collapse to sides of excavations to trenches, column bases, etc., from ground level to exceeding 1,50 m deep	m2	265		
	<u>CARTING AWAY</u>				
	<u>Extra over all excavations for carting away</u>				
8	Extra over all excavations for carting away surplus excavated material from the site and dumping at a dumping ground to be found by the Contractor	m3	52		
	<u>KEEPING EXCAVATION FREE FROM WATER</u>				
	<u>Keeping excavations free of water</u>				
9	Allow for keeping excavations entirely free from water or mud			Item	
	<u>FILLING</u>				
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>				
10	Backfilling to trenches, holes, etc	m3	67		
	<u>Earth filling supplied by the contractor to be G7 material compacted in layers of 150mm to 100% Mod AASHTO density</u>				
11	Under floors	m3	67		
	Carried Forward				R
	Section No. 3 Bill No. 1 Earthworks				

Brought Forward				R
<u>Compaction of surfaces</u>				
12	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density	m2	195	
<u>Prescribed density tests on filling</u>				
13	"Modified AASHTO Density" test	No	4	
<u>Ant poisoning</u>				
14	Poisoning of ground surfaces under floors against termites including raking out 50 mm deep v-shaped channel against inner face of walls, etc., and flooding with termite poisoning as described	m2	195	
Carried Forward to Summary of Section No. 3				R
Section No. 3				
Bill No. 1				
Earthworks				

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>				
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Formwork</u></p> <p>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p> <p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>Formworks to soffits of solid floors etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</p>				
	Carried Forward				R
	<p>Section No. 3 Bill No. 2 Concrete, Formwork and Reinforcement</p>				

Brought Forward				R
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>Concrete (15 MPa) in:</u>				
1	Surface blinding	m3	6	
<u>REINFORCED CONCRETE</u>				
<u>30MPa/19mm concrete</u>				
2	Footings	m3	36	
3	Surface beds on waterproofing (waterproofing elsewhere measured)	m3	25	
4	Ramps	m3	2	
5	Stairs	m3	1	
<u>STORMWATER CHANNELS</u>				
<u>Smooth finished in-situ reinforced concrete 25Mpa/19mm channels</u>				
6	1000 x 100mm High smooth finished open V-shaped channels to engineer's detail, cast in alternative panels to falls including shallow excavations, carting away surplus material, shaping and grading ground as required including mesh Ref 193, and all necessary formwork, expansion / movement joint material and sealing thereof	m	69	
<u>Concrete Sundries</u>				
7	Finish top of surfaces of concrete surface beds, etc with a power float	m2	195	
<u>CONCRETE TESTING</u>				
8	Allow for making set of (6) six concrete test cubes, sending to an approved testing authority for testing and paying all charges in connection therewith	No	4	
Carried Forward				R
Section No. 3 Bill No. 2 Concrete, Formwork and Reinforcement				

Brought Forward				R
<u>MOVEMENT JOINTS ETC</u>				
<u>Expansion joints with Bitumen Impregnated Softboard between vertical brick and/or concrete surfaces</u>				
9	10mm Isolation joints between wall and floor not exceeding 150mm deep	m	45	
<u>Saw cut joints</u>				
10	3 x 10mm Saw cut joints reamed out to 5mm wide x 10mm deep in top of concrete surface bed	m	65	
<u>REINFORCEMENT</u>				
<u>Mild steel reinforcement to structural concrete work</u>				
11	Bars of various diameters	t	2.34	
<u>High tensile steel reinforcement to structural concrete work not exceeding 13,00m long</u>				
12	Bars of various diameters	t	3.51	
<u>Fabric reinforcement</u>				
13	Type 193 fabric reinforcement in concrete surface beds, slabs, ducts, etc	m2	195	
Carried Forward to Summary of Section No. 3				
Section No. 3				R
Bill No. 2				
Concrete, Formwork and Reinforcement				

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
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Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 3</u></p> <p><u>MASONRY</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>				
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>BRICKWORK</u></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>BRICKWORK IN FOUNDATIONS</u></p> <p><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u></p>				
1	Half brick walls in linings to concrete	m2	11		
2	One brick wall in stretcher bond	m2	70		
	<u>Brick reinforcement</u>				
3	150mm Wide reinforcement built in horizontally	m	312		
	Carried Forward				
	Section No. 3 Bill No. 3 Masonry				R

	Brought Forward			R
	<u>SUPERSTRUCTURE</u>			
	<u>Brickwork of NFP bricks in class II mortar</u>			
4	Brickwork in piers	m3	1	
5	Half brick walls in beamfilling	m2	11	
6	One brick wall in stretcher bond	m2	312	
	<u>Brick reinforcement</u>			
7	150mm Wide reinforcement built in horizontally	m	779	
	<u>Galvanised hoop iron cramps, ties, etc.:</u>			
8	30mm x 1.6mm Thick and 1600mm long galvanised hoop iron straps embed minimum 600mm into masonry wall all to comply with SANS 10400 Part K4.2.11	No	50	
	<u>Pre-stressed concrete lintels</u>			
9	110 x 75mm Lintels in lengths not exceeding 3m long	m	79	
	<u>Sundries</u>			
10	229 x 152mm Terracotta vermin proof air brick with and including Mentex 130/VEM 280D GMS	No	24	
	<u>Chip off projections, fill up crevices, cement wash with 1:6 cement and sand slurry and apply two coats "Brixal" bitumen emulsion waterproof coating on:</u>			
11	Outer face of inner skin of brick walls or hollow walls including any additional labour required in raising wall in two separate skins and working around wire ties	m2	296	
	<u>Joint forming material in movement joints</u>			
12	20mm Bitumen impregnated fibre board built in vertically through brick walls	m2	1	
	<u>Turning pieces</u>			
13	Turning pieces to one brick wall	m	48	
	Carried Forward			R
	Section No. 3			
	Bill No. 3			
	Masonry			

	Brought Forward		R	
<u>SILLS</u>				
<u>Fibre cement internal window sill</u>				
14 175 x 15mm Thick window sill manufactured in accordance with SANS 803:2005 slug screwed and installed below window according to Architects and manufactures instructions		m	15	
<p align="right">Carried Forward to Summary of Section No. 3</p> <p>Section No. 3 Bill No. 3 Masonry</p>			R	

Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO. 4</u>				
	<u>WATERPROOFING</u>				
	The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	<u>Trade names</u>				
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description				
	<u>WATERPROOFING</u>				
	<u>One layer of 250 Micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>				
1	Under surface beds	m2	202		
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>				
	<u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u>				
2	In walls laid horizontally and built into walls or stepped up cavity, lapped 150mm at all angles and passings (measured net)	m2	20		
3	Cills	m2	2		
	<u>JOINT SEALANTS ETC</u>				
	<u>"Bostik 2638" or other approved sealant</u>				
4	10 x 10mm In vertical expansion joints between brickwork and concrete surfaces including raking out expansion joint filler as necessary	m	45		
	Carried Forward				R
	Section No. 3 Bill No. 4 Waterproofing				

	Brought Forward			R	
5	<p><u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u></p> <p>3 x 10mm In saw cut joints in floors</p>	m	65		
	<p>Carried Forward to Summary of Section No. 3</p> <p>Section No. 3 Bill No. 4 Waterproofing</p>			R	

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 5</u></p> <p><u>ROOF COVERINGS, ETC</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>				
	<p><u>PROFILED METAL SHEETING AND ACCESSORIES</u></p> <p>Profiled metal roof coverings fixed with interlocking profile and clip fixing system. Sheeting shall be fixed to timber purlins in accordance with the manufacturer's instructions.</p> <p>Prices for sheeting are to include for all straight cutting and waste, laps, protecting from damage and cleaning down at completion - all in strict accordance with manufacturer's instructions and to the approval of the Head : Works.</p> <p>Prices for ridges, closers, etc. are to include for all cutting and fitting at ends, etc.</p> <p><u>Note : All roof coverings installed are to comply with SABS Code of Practice 0237 as applicable. All roof sheeting shall be laid under a five year written guarantee for site workmanship and water tightness</u></p>				
	Carried Forward				R
	<p>Section No. 3 Bill No. 5 Roof Coverings, etc</p>				

Brought Forward				R
<p><u>0.5mm Thick IBR galvanized pre-painted colour coated (colour to clients choice) or equally approved roof sheeting, fixed to 50 x 76mm SA timber purlins at 1000mm centres and eaves and ridge purlins at 2100mm centres using clips fixed with 10No.11 x 45mm long self-drilling wafer head PH2 screws, type 17 drill point fasteners, all in accordance with the manufacturer's specifications</u></p> <p><u>Sheeting to have positive fixing with 85mm long Class 3 coated screw including flange and grommet at every rib at first (eave) and last (ridge) purlin</u></p>				
1	Roof covering with pitch not exceeding 25 degrees	m2	253	
<p><u>Ridge capping</u></p>				
2	0,5mm thick flashings to match roof sheeting, including barge flashing over fascia boards	m	23	
3	Sondor Performance Foams cross-linked, closed cell, expanded Polyethylene broad flute poly-closures fixed between flashing and roof sheeting	m	46	
4	Serrated metal closures at eaves	m	46	
<p><u>Roof underlays</u></p>				
5	Sisalation 420 heavy industrial grade aluminium foil based insulation fixed in strict accordance with the manufacturer's instructions	m2	253	
<p>Carried Forward to Summary of Section No. 3</p>				R
<p>Section No. 3 Bill No. 5 Roof Coverings, etc</p>				

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 6</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>				
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Particle board:</u></p> <p>Particle board shall comply with the following specifications:</p> <p>SABS EN 317 Parts 1 to 7 for exterior, interior and flooring type particleboard</p> <p><u>Joinery:</u></p> <p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p>				
	Carried Forward				R
	<p>Section No. 3 Bill No. 6 Carpentry and Joinery</p>				

Brought Forward				R
<p><u>Decorative laminate finish:</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p>Decorative laminates are to comply with SABS 1S0 4586 and SABS 1405</p> <p><u>ROOFS ETC</u></p> <p><u>Plate nailed timber roof truss construction</u></p> <p>Note : Timber roof trusses are to comply with SABS Code of Practice 0243. (The design, manufacture and erection of timber trusses, including nail-plated and bolted trusses with lapped members :</p> <p>All external timber to be grade S7 size CCA H2 treated S.A. Pine structural timber in lengths 0.9 - 6.6mm (in 300mm increments).</p> <p>All hidden timber to be S7 CCA H2 treated S.A. Pine structural timber.</p> <p>The following is applicable in respect of roof trusses:</p> <p>Prefabricated timber roof trusses shall be constructed of South African pine by a firm of specialist designer manufacturers. Trusses are at maximum 1000mm centres. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect and/or the site before design or fabrication commences.</p> <p>Sheeting to be fixed to clips fixed to 50 x 76mm treated SA Pine purlins, splayed at eaves and spaced at approx. 1800mm on timber prefabricated cleated roof trusses on 114 x 38mm w all plates to Engineers approval, including TR1 and TR2 certificates</p> <p><u>Prices must include for the design , plans and approval of all timber trusses and no claim shall be considered. An Engineers approval certificate is required once the roof truss installation is complete and is for the contractors account</u></p>				
1	Double pitch truss with 800mm overhand on both sides and tie beam spanning 10 000mm to 12 000mm long	No	21	
Carried Forward				R
<p>Section No. 3 Bill No. 6 Carpentry and Joinery</p>				

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Brought Forward				R
2	Double pitch truss with 800mm overhand on both sides and tie beam spanning 6 000mm to 8 000mm long	No	4	
<u>Sawn softwood</u>				
3	38 x 114mm Wall plates	m	45	
4	50 x 76mm Purlins	m	267	
5	76 x 76mm Splayed gutter purlin	m	46	
6	38 x 114mm Bottom chord bracing not exceeding 2.40m long	m	100	
7	38 x 114mm Horizontal bracing	m	45	
<u>Wrot softwood</u>				
8	150 x 38mm Ridge board in lengths exceeding 2.4m but not exceeding 6m	m	23	
<u>Sundries</u>				
9	Two coats ABE "Provonite" on sawn timbers at eaves	m2	28	
10	Galvanised steel hurricane clips nailed to purlins and rafters	No	560	
<u>FASCIAS, ETC</u>				
<u>Fibre cement medium density fibre-cement or other approved</u>				
11	225 x 12mm Barge boards including jointing with PVC H-profile barge joiners	m	30	
12	225 x 12mm Fascias screwed to rafter ends with 12 x 40mm countersunk brass screws at 900mm centres to support battens with PVC H-profile fascia joiners	m	47	
<u>SKIRTINGS</u>				
<u>Wrot meranti</u>				
13	70 x 20mm hardwood skirting of even colour nailed to wall, nails to be punched, stopped and sanded smooth	m	92	
Carried Forward				R
Section No. 3 Bill No. 6 Carpentry and Joinery				

	Brought Forward			R
<u>DOORS</u>				
<u>Solid core laminated double door with rebated meeting edges faced with 6mm tempered hardwood & 10mm hardwood edging suitable for painting both sides</u>				
14 Door size 813 x 2032mm high		No	2	
Carried Forward to Summary of Section No. 3				
Section No. 3 Bill No. 6 Carpentry and Joinery				R

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
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Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO. 7</u>				
	<u>CEILINGS AND PARTITIONS</u>				
	The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	<u>Trade names</u>				
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description				
	<u>NAILED UP CEILINGS</u>				
	<u>6,4mm Rhinoboard or equally approved ceilings fixed to 38 x 38mm brading at maximum 400cc including "H" profile jointing strips all to manufacturer's instructions</u>				
1	Ceilings	m2	195		
2	Extra over ceiling for forming trapdoor 600 x 600mm hunged pressed metal with 38 x 50mm sawn softwood braced framing	No	1		
	<u>CORNICE</u>				
3	48 x 22mm rebated hard wood cornice nailed to wall	m	92		
	Carried Forward to Summary of Section No. 3				R
	Section No. 3 Bill No. 7 Ceilings, Partitions and Access Flooring				

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Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 8</u></p> <p><u>IRONMONGERY</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>				
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Finishes to ironmongery</u></p> <p>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 Sanded</p> <p><u>UNION LOCKS OR EQUAL APPROVED</u></p>				
1	<p>Four lever mortice lockset and furniture fixed to door with anti theft screws and satin chrome handles</p>	No	2		
	<p><u>SIGNAGE</u></p> <p><u>5mm Perspex plate with symbols with square polished edges, approved colour background and reverse engraved in plate and fixed to wood with four chromium plated self tapping screws.</u></p>				
2	<p>150 x 150 mm Lettering not more than 15 letters fixed to wall with double sided adhesive tape</p>	No	5		
	Carried Forward				
	<p>Section No. 3 Bill No. 8 Ironmongery</p>				R

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
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	Brought Forward			R
3	150 x 150 SABS approved clear perspex signs for fire, escape arrows and danger warnings, with design screen printed on back, fixed to surface with screws	No	4	
	<u>SUNDRIES</u>			
4	38mm Diameter rubber door stops with 50mm long brass screws plugged into concrete or masonry.	No	2	
5	55mm x 30mm x 5mm Thick Tough plastic re-usable key tag complete with 25mm diameter stainless steel split ring, paper insert, etc.	No	6	
	<u>50mm Vintage Venetian Blinds or other approved window blinds with a 51 high x 57mm deep stove enamelled roll formed headrail and a fully enclosed stove enamelled roll formed bottom rail 20mm high x 50mm deep</u>			
6	Blinds for window type W01 size 1085 x 1800mm high	No	12	
7	Blinds for window type W02 size 900 x 1800mm high	No	2	
	<u>FIRE EXTINGUISHER</u>			
	<u>Fire extinguisher</u>			
8	4.5Kg fire extinguisher, DPC SABS approved or certified	No	4	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3			
	Bill No. 8			
	Ironmongery			

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 9</u></p> <p><u>METALWORK</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>				
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p>NOTE : Pressed steel door frames shall be supplied with three 100mm steel washered brass butt hinges and frames for two leaved doors with three pairs of 100mm steel washered brass butt hinges</p> <p>Transomes for fanlights shall be fitted with a pair of 75mm steel washered butt hinges</p>				
	Carried Forward				R
	<p>Section No. 3 Bill No. 9 Metalwork</p>				

	Brought Forward			R
	<p><u>The following items to be priced in accordance with the above schedules to include all items viz., frame, sealing, ironmongery, protection, etc., complete (glazing and painting elsewhere measured)</u></p> <p><u>GALVANISED STEEL DOOR FRAMES</u></p> <p><u>1,2mm Double rebated pressed steel frames suitable for one brick wall</u></p>			
1	<p>Frame for door size 813 x 2032mm high with 2 x 100mm loose pin hinges welded in position.</p> <p><u>ALUMINIUM DOORS</u></p> <p>Price to include door, door frame, ironmongery (paint elsewhere measured) etc</p> <p><u>The following items to be priced in accordance with the above schedules to include all items viz., frame, sealing, ironmongery, protection, etc., complete (painting elsewhere measured)</u></p> <p><u>Purpose made powder coated projected -top-hung open out aluminium window waterproofed window wall system (colour: Bronze - 25 year guarantee) or equally approved aluminium windows/ doors/ shopfronts etc to SANS 10322:2014 complete with subframes, ironmongery, glass, sealing, etc and fixing to brickwork or concrete, glazing to be 6.38mm thick laminated safety glass</u></p>	No	2	
2	<p>Door Type D/1 size 1574 x 2100mm high</p>	No	3	
3	<p>Door Type D/2 size 813 x 2100mm high</p>	No	1	
	Carried Forward			R
	<p>Section No. 3 Bill No. 9 Metalwork</p>			

	Brought Forward			R
	<u>ALUMINIUM WINDOWS</u>			
	<u>The following items to be priced in accordance with the above schedules to include all items viz., frame, sealing, ironmongery, protection, etc., complete (painting elsewhere measured)</u>			
	<u>Purpose made powder coated projected -top-hung open out aluminium window waterproofed window wall system (colour: Bronze - 25 year guarantee) or equally approved aluminium windows/ doors/ shopfronts etc to SANS 10322:2014 complete with subframes, ironmongery, glass, sealing, etc and fixing to brickwork or concrete, glazing to be 3.8mm thick laminated safety glass</u>			
4	Type W01 size 1085 x 1800mm Window	No	12	
5	Type W02 size 900 x 1800mm Window	No	2	
	<u>GALVANISED MILD STEEL</u>			
	<u>Galvanize mild steel gate with frame 40 x 8mm mild steel flat bar, 30 x 6mm horizontal flat bars, 4 or 8 No of 40 x 40 x 8mm mild steel fixing lungs, 12mm diameter holes for 10mm diameter stainless steel anchor bolt including key and locking mechanism</u>			
	<u>The following items to be priced in accordance with the above schedules to include all items viz., frame, sealing, ironmongery, protection, etc., complete (glazing and painting elsewhere measured)</u>			
6	Type Gate - 1 size 1560 x 2100mm high	No	3	
7	Type Gate - 2 size 900 x 2100mm high	No	1	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3			
	Bill No. 9			
	Metalwork			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 10</u></p> <p><u>METALWORK</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>			
	<p><u>FLOOR TILES</u></p> <p><u>600 x 600mm Full body porcelain "Union" tiles, unglazed Anti slip resistant 10, per DIN 51130 (colour TBC), or equally approved no slip porcelain tile with 3mm joints to be laid with "Goldstar" 6 hour rapid-setting adhesive mixed 20kg with 5 litres of "Tal Bond" as per manufacturers recommendations and instructions and flush pointed with approved tile grout</u></p>			
1	On floors	m2	195	
2	75mm High skirting	m	92	
	Carried Forward to Summary of Section No. 3			
	Section No. 3			
	Bill No. 10			
	Tiling			
				R

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Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO. 11</u>				
	<u>PLASTERING</u>				
	The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	<u>Trade names</u>				
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description				
	<u>SCREEDS</u>				
	<u>Untinted granolithic on concrete</u>				
1	30mm Thick on floors and landings	m2	13		
	<u>SCREEDS</u>				
	<u>30mm thick installed to SABS standards Class 2, Strength Category C sand-cement screed</u>				
2	30mm Thick on floors and landings	m2	182		
	<u>INTERNAL PLASTER</u>				
	<u>One coat cement plaster (1:5), 6-8mm as described on brickwork or concrete on:</u>				
3	On walls	m2	292		
4	On narrow widths	m2	10		
	Carried Forward			R	
	Section No. 3 Bill No. 11 Plastering				

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 12</u></p> <p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>				
	<p><u>RAINWATER DISPOSAL</u></p> <p><u>Square profile aluminium seamless gutter, overall size 140 x 150 x 0,9mm thick coated internally and externally with ColourTech G4 in colour Rich Ivory including cut and mitred angles covered with a mitre strip externally, stop ends riveted and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement fascia with 20 x 3mm dual-purpose brackets at 600mm centres using aluminium peeled rivets</u></p>				
1	150 x 140mm Aluminium profile seamless gutter with baked enamel finish fixed with concealed brackets to fascia	m	47		
2	Extra over gutters for stopped ends	No	8		
3	Extra over gutter for outlet and nozzle to suit 100 x 75mm diameter pipe	No	12		
4	75mm diameter uPVC downpipe complying with SABS 11, fixed to wall with holder bats	m	43		
5	Extra over for bend	No	12		
6	Extra over for shoe	No	12		
	Carried Forward to Summary of Section No. 3				R
	Section No. 3 Bill No. 12 Plumbing and Drainage				

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 13</u></p> <p><u>ELECTRICAL INSTALLATION</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>			
	<p><u>PROVISIONAL SUSM</u></p> <p><u>The following Provisional Sums are included for work not fully detailed in the drawings and specifications at the tender stage. Such work shall be executed at the rates in the Bills of Quantities or at rates to be agreed with the Principal Agent, and shall included all materiel, labour and equipment supplied and installed complete by the contractor</u></p>			
1	Provide an amount of R 237 800.00 (Two Hundred and Thirty Seven Thousand Eight Hundred Rands Only) for electrical installation	Item		
	Carried Forward to Summary of Section No. 3			R
	Section No. 3 Bill No. 13 Electrical Installation			

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
FOR COGTA KZN**

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 14</u></p> <p><u>PAINTWORK</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>				
	<p><u>PAINTWORK TO NEW SURFACES</u></p> <p><u>INTERNAL PLASTER</u></p> <p><u>Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less, prime with one coat Plaster Primer (UC 56) with an over-coating time of 16 hours and finish with two coats Dulux or other approved Double Velvet paint with 2 hours drying time between coats, for a maintenance cycle of 15 years in a C1 - inland environment (colour:TBC)</u></p>				
1	Internal plastered walls	m2	305		
	Carried Forward				R
	Section No. 3 Bill No. 14 Paintwork				

		Brought Forward			R
		<u>EXTERNAL PLASTER</u>			
		<u>Remove all dirt, dust, lose and flacking paint and chalk before painting. wash walls with sugar soup solution and ensure surfaces are sound, clean and thoroughly dry and apply spot primer one coat "Dulux Trade Alkali" resistant primer and two finishing coats "Dulux" or other approved wall guard lowsheen in strict accordance as per manufacturers instructions or equally approved paint specification as per Architects instructions (colour: TBC)</u>			
2	External plastered walls		m2	319	
		<u>ON CEILINGS</u>			
		<u>Wipe down with a damp cloth and allow to dry completely, prime with one coat Professional Plaster Primer (PP700) with an overcoating time of 16 hours and finish with two coats Super Acrylic Polvin (EPL 30) with 1 hour drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment (colour: TBC)</u>			
3	Ceiling and cornices		m2	195	
		<u>ON FIBRE CEMENT</u>			
		<u>Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less, prime with one coat Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats Polvin Super Acrylic (EPL) with 1 hour drying time between coats (colour: TBC)</u>			
4	External fibre cement fascias and barge boards		m2	19	
		<u>ON WOOD</u>			
		<u>Sand down and apply one coat 'Wood Primer', one coat 'Universal Undercoat' and two finishing coats ' water based Enamel' on (colour: TBC)</u>			
5	Doors		m2	8	
		Carried Forward			R
		Section No. 3 Bill No. 14 Paintwork			

	Brought Forward			R	
	<p><u>General timber surfaces to be rubbed down with smooth sandpaper, sand wood in the direction of the grain to a smooth finish, dust off thoroughly. All surfaces must be clean and dry and apply two coats of Universal Satin Magic while allowing 16 hours between coats (colour: TBC)</u></p>				
6	Skirtings, timber rails, etc	m	92		
	<p>Carried Forward to Summary of Section No. 3</p> <p>Section No. 3 Bill No. 14 Paintwork</p>			R	

Bill No	<u>SECTION SUMMARY - NEW HALL</u>	Page No	Amount
1	Earthworks	47	
2	Concrete, Formwork and Reinforcement	50	
3	Masonry	53	
4	Waterproofing	55	
5	Roof Coverings, etc	57	
6	Carpentry and Joinery	61	
7	Ceilings, Partitions and Access Flooring	62	
8	Ironmongery	64	
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10	Tiling	68	
11	Plastering	70	
12	Plumbing and Drainage	71	
13	Electrical Installation	72	
14	Paintwork	75	
	Carried to Final Summary		R
	Section No. 3		

Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO. 1</u>				
	<u>EARTHWORKS (PROVISIONAL)</u>				
	The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	<u>Trade names</u>				
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description				
	<u>Scope of Work</u>				
	Foundations in this document are measured to the underside of the surface bed.				
	<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>SITE CLEARANCE ETC</u>				
1	Dig up and remove rubbish, debris, vegetation, hedges, shrubs and bush etc including trees not exceeding 200mm girth	m2	87		
2	Strip average 150mm thick layer of top soil and stockpile on site	m2	87		
	<u>SITE PREPARATION</u>				
3	Trim and level off surface of ground to receive layers of roads, paving, etc., including excavating or filling ripping and scarifying as necessary and compacting the whole area for a depth of 2 x 150mm to a density of at least 95% Mod AASHTO maximum density, part to falls	m2	32		
	Carried Forward				R
	Section No. 4 Bill No. 1 Earthworks				

	Brought Forward			R
	<u>EXCAVATION</u>			
	<u>Excavate in earth not exceeding 2,00m deep below natural fill or reduced ground level for:</u>			
4	Trenches	m3	52	
	<u>Extra over excavation other than bulk in earth for excavation in:</u>			
5	Soft rock	m3	5	
6	Hard rock	m3	3	
	<u>Risk of collapse of excavations</u>			
7	Allow for risk of collapse to sides of excavations to trenches, column bases, etc., from ground level to exceeding 1,50 m deep	m2	105	
	<u>CARTING AWAY</u>			
	<u>Extra over all excavations for carting away</u>			
8	Extra over all excavations for carting away surplus excavated material from the site and dumping at a dumping ground to be found by the Contractor	m3	23	
	<u>KEEPING EXCAVATION FREE FROM WATER</u>			
	<u>Keeping excavations free of water</u>			
9	Allow for keeping excavations entirely free from water or mud		Item	
	<u>FILLING</u>			
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>			
10	Backfilling to trenches, holes, etc	m3	29	
	<u>Earth filling supplied by the contractor to be G7 material compacted in layers of 150mm to 100% Mod AASHTO density</u>			
11	Under floors	m3	10	
	Carried Forward			R
	Section No. 4			
	Bill No. 1			
	Earthworks			

Brought Forward				R
<u>Compaction of surfaces</u>				
12	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density	m2	32	
<u>Prescribed density tests on filling</u>				
13	"Modified AASHTO Density" test	No	2	
<u>Ant poisoning</u>				
14	Poisoning of ground surfaces under floors against termites including raking out 50 mm deep v-shaped channel against inner face of walls, etc., and flooding with termite poisoning as described	m2	32	
Carried Forward to Summary of Section No. 4				R
Section No. 4				
Bill No. 1				
Earthworks				

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>				
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Formwork</u></p> <p>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p> <p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>Formworks to soffits of solid floors etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</p>				
	<p>Carried Forward</p>				R
	<p>Section No. 4 Bill No. 2 Concrete, Formworj and Reinforement</p>				

Brought Forward				R
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>Concrete (15 MPa) in:</u>				
1	Surface blinding	m3	3	
<u>REINFORCED CONCRETE</u>				
<u>30MPa/19mm concrete</u>				
2	Footings	m3	16	
3	Surface beds on waterproofing (waterproofing elsewhere measured)	m3	4	
<u>STORMWATER CHANNELS</u>				
<u>Smooth finished in-situ reinforced concrete 25Mpa/19mm channels</u>				
4	1000 x 100mm High smooth finished open V-shaped channels to engineer's detail, cast in alternative panels to falls including shallow excavations, carting away surplus material, shaping and grading ground as required including mesh Ref 193, and all necessary formwork, expansion / movement joint material and sealing thereof	m	31	
<u>Concrete Sundries</u>				
5	Finish top of surfaces of concrete surface beds, etc with a power float	m2	32	
<u>CONCRETE TESTING</u>				
6	Allow for making set of (6) six concrete test cubes, sending to an approved testing authority for testing and paying all charges in connection therewith	No	2	
Carried Forward				R
Section No. 4 Bill No. 2 Concrete, Formwork and Reinforcement				

Brought Forward				R
<u>MOVEMENT JOINTS ETC</u>				
<u>Expansion joints with Bitumen Impregnated Softboard between vertical brick and/or concrete surfaces</u>				
7	10mm Isolation joints between wall and floor not exceeding 150mm deep	m	18	
<u>Saw cut joints</u>				
8	3 x 10mm Saw cut joints reamed out to 5mm wide x 10mm deep in top of concrete surface bed	m	27	
<u>REINFORCEMENT</u>				
<u>Mild steel reinforcement to structural concrete work</u>				
9	Bars of various diameters	t	0.96	
<u>High tensile steel reinforcement to structural concrete work not exceeding 13,00m long</u>				
10	Bars of various diameters	t	1.44	
<u>Fabric reinforcement</u>				
11	Type 193 fabric reinforcement in concrete surface beds, slabs, ducts, etc	m2	32	
Carried Forward to Summary of Section No. 4				R
Section No. 4				
Bill No. 2				
Concrete, Formwork and Reinforcement				

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
FOR COGTA KZN**

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 3</u></p> <p><u>MASONRY</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>				
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>BRICKWORK</u></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>BRICKWORK IN FOUNDATIONS</u></p> <p><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u></p>				
1	Half brick walls in linings to concrete	m2	5		
2	Half brick wall in stretcher bond	m2	17		
3	One brick wall in stretcher bond	m2	21		
	Carried Forward				R
	Section No. 4 Bill No. 3 Masonry				

Brought Forward		R
<u>Brick reinforcement</u>		
4	75mm Wide reinforcement built in horizontally	m 72
5	150mm Wide reinforcement built in horizontally	m 78
<u>SUPERSTRUCTURE</u>		
<u>Brickwork of NFP bricks in class II mortar</u>		
6	Half brick wall in stretcher bond	m2 69
7	One brick wall in stretcher bond	m2 74
<u>Brick reinforcement</u>		
8	75mm Wide reinforcement built in horizontally	m 202
9	150mm Wide reinforcement built in horizontally	m 218
<u>Galvanised hoop iron cramps, ties, etc.:</u>		
10	30mm x 1.6mm Thick and 1600mm long galvanised hoop iron straps embed minimum 600mm into masonry wall all to comply with SANS 10400 Part K4.2.11	No 20
<u>Pre-stressed concrete lintels</u>		
11	110 x 75mm Lintels in lengths not exceeding 3m long	m 37
<u>Chip off projections, fill up crevices, cement wash with 1:6 cement and sand slurry and apply two coats "Brixal" bitumen emulsion waterproof coating on:</u>		
12	Outer face of inner skin of brick walls or hollow walls including any additional labour required in raising wall in two separate skins and working around wire ties	m2 21
<u>Turning pieces</u>		
13	Turning pieces to one brick wall	m 5
Carried Forward to Summary of Section No. 4		R
Section No. 4		
Bill No. 3		
Masonry		

Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO. 4</u>				
	<u>WATERPROOFING</u>				
	The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	<u>Trade names</u>				
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description				
	<u>WATERPROOFING</u>				
	<u>One layer of 250 Micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>				
1	Under surface beds	m2	32		
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>				
	<u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u>				
2	In walls laid horizontally and built into walls or stepped up cavity, lapped 150mm at all angles and passings (measured net)	m2	9		
	<u>JOINT SEALANTS ETC</u>				
	<u>"Bostik 2638" or other approved sealant</u>				
3	10 x 10mm In vertical expansion joints between brickwork and concrete surfaces including raking out expansion joint filler as necessary	m	18		
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
4	3 x 10mm In saw cut joints in floors	m	27		
	Carried Forward to Summary of Section No. 4				
	Section No. 4				
	Bill No. 4				
	Waterproofing				
				R	

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 5</u></p> <p><u>ROOF COVERINGS, ETC</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>				
	<p><u>PROFILED METAL SHEETING AND ACCESSORIES</u></p> <p>Profiled metal roof coverings fixed with interlocking profile and clip fixing system. Sheeting shall be fixed to timber purlins in accordance with the manufacturer's instructions.</p> <p>Prices for sheeting are to include for all straight cutting and waste, laps, protecting from damage and cleaning down at completion - all in strict accordance with manufacturer's instructions and to the approval of the Head : Works.</p> <p>Prices for ridges, closers, etc. are to include for all cutting and fitting at ends, etc.</p> <p><u>Note : All roof coverings installed are to comply with SABS Code of Practice 0237 as applicable. All roof sheeting shall be laid under a five year written guarantee for site workmanship and water tightness</u></p>				
	Carried Forward				R
	<p>Section No. 4 Bill No. 5 Roof Coverings, etc</p>				

	Brought Forward			R
	<p><u>0.5mm Thick IBR galvanized pre-painted colour coated (colour to clients choice) or equally approved roof sheeting, fixed to 50 x 76mm SA timber purlins at 1000mm centres and eaves and ridge purlins at 2100mm centres using clips fixed with 10No.11 x 45mm long self-drilling wafer head PH2 screw s, type 17 drill point fasteners, all in accordance with the manufacturer's specifications</u></p> <p><u>Sheeting to have positive fixing with 85mm long Class 3 coated screw including flange and grommet at every rib at first (eave) and last (ridge) purlin</u></p>			
1	Roof covering with pitch not exceeding 25 degrees	m2	37	
	<p><u>Roof underlays</u></p>			
2	Sisalation 420 heavy industrial grade aluminium foil based insulation fixed in strict accordance with the manufacturer's instructions	m2	37	
	Carried Forward to Summary of Section No. 4			R
	Section No. 4			
	Bill No. 5			
	Roof Coverings, etc			

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 6</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>				
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Particle board:</u></p> <p>Particle board shall comply with the following specifications:</p> <p>SABS EN 317 Parts 1 to 7 for exterior, interior and flooring type particleboard</p> <p><u>Joinery:</u></p> <p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p>				
	Carried Forward				R
	<p>Section No. 4 Bill No. 6 Carpentry and Joinery</p>				

Brought Forward				R
<p><u>Decorative laminate finish:</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p>Decorative laminates are to comply with SABS 1S0 4586 and SABS 1405</p> <p><u>ROOFS ETC</u></p> <p><u>Plate nailed timber roof truss construction</u></p> <p>Note : Timber roof trusses are to comply with SABS Code of Practice 0243. (The design, manufacture and erection of timber trusses, including nail-plated and bolted trusses with lapped members :</p> <p>All external timber to be grade S7 size CCA H2 treated S.A. Pine structural timber in lengths 0.9 - 6.6mm (in 300mm increments).</p> <p>All hidden timber to be S7 CCA H2 treated S.A. Pine structural timber.</p> <p>The following is applicable in respect of roof trusses:</p> <p>Prefabricated timber roof trusses shall be constructed of South African pine by a firm of specialist designer manufacturers. Trusses are at maximum 1000mm centres. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect and/or the site before design or fabrication commences.</p> <p>Sheeting to be fixed to clips fixed to 50 x 76mm treated SA Pine purlins, splayed at eaves and spaced at approx. 1800mm on timber prefabricated cleated roof trusses on 114 x 38mm w all plates to Engineers approval, including TR1 and TR2 certificates</p> <p><u>Prices must include for the design , plans and approval of all timber trusses and no claim shall be considered. An Engineers approval certificate is required once the roof truss installation is complete and is for the contractors account</u></p>				
1	Mono pitch timber roof truss with 800mm overhand on one side spanning 4 000mm to 5 000mm long	No	10	
Carried Forward				R
<p>Section No. 4 Bill No. 6 Carpentry and Joinery</p>				

	Brought Forward				R
	<u>Sawn softwood</u>				
2	38 x 114mm Wall plates	m	9		
3	50 x 76mm Purlins	m	41		
4	76 x 76mm Splayed gutter purlin	m	10		
5	38 x 114mm Bottom chord bracing not exceeding 2.40m long	m	15		
	<u>Sundries</u>				
6	Two coats ABE "Provonite" on sawn timbers at eaves	m2	8		
7	Galvanised steel hurricane clips nailed to purlins and rafters	No	100		
	<u>FASCIAS, ETC</u>				
	<u>Fibre cement medium density fibre-cement or other approved</u>				
8	225 x 12mm Fascias screwed to rafter ends with 12 x 40mm countersunk brass screws at 900mm centres to support battens with PVC H-profile fascia joiners	m	10		
	<u>DOORS</u>				
	<u>Frame and ledge braced Saligna external batten door or other approved Meranti door with 6mm smooth tempered hardboard flush panel internally, with top rails and styles size 108 x 45mm, lock rail and bottom rail size 220 x 22mm and 22mm v-jointed Meranti T&G boarding</u>				
	<u>Price to include door, door frame, ironmongery, hinges (paint elsewhere measured) etc</u>				
9	Door size 813 x 2032mm high	No	2		
10	Purpose made paraplegic door size 1000 x 2032mm high	No	1		
	Price to include door, hinges etc (paint elsewhere measured)				
	Carried Forward				R
	Section No. 4 Bill No. 6 Carpentry and Joinery				

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
FOR COGTA KZN**

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 7</u></p> <p><u>IRONMONGERY</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>				
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Finishes to ironmongery</u></p> <p>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 Sanded</p> <p><u>UNION LOCKS OR EQUAL APPROVED</u></p>				
1	Four lever mortice lockset and furniture fixed to door with anti theft screws and satin chrome handles	No	3		
2	Zinc alloy surface mounted WC indicator bolt	No	5		
	<p><u>SIGNAGE</u></p> <p><u>5mm Perspex plate with symbols with square polished edges, approved colour background and reverse engraved in plate and fixed to wood with four chromium plated self tapping screws.</u></p>				
3	150 x 150 mm Lettering not more than 15 letters fixed to wall with double sided adhesive tape	No	3		
	Carried Forward				R
	<p>Section No. 4 Bill No. 7 Ironmongery</p>				

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
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	Brought Forward			R
4	150 x 150 SABS approved clear perspex signs for fire, escape arrows and danger warnings, with design screen printed on back, fixed to surface with screws	No	3	
	<u>SUNDRIES</u>			
5	38mm Diameter rubber door stops with 50mm long brass screws plugged into concrete or masonry.	No	8	
6	55mm x 30mm x 5mm Thick Tough plastic re-usable key tag complete with 25mm diameter stainless steel split ring, paper insert, etc.	No	8	
	<u>BATHROOM FITTINGS</u>			
7	Stainless steel disabled Industries stainless steel grab rails (SR1) bolted to wall	No	1	
8	Stainless steel disabled Industries stainless steel grab rails (DL2) bolted to wall	No	1	
	Carried Forward to Summary of Section No. 4			
	Section No. 4			
	Bill No. 7			
	Ironmongery			
				R

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 8</u></p> <p><u>METALWORK</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>				
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as"holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p>NOTE : Pressed steel door frames shall be supplied with three 100mm steel washered brass butt hinges and frames for two leaved doors with three pairs of 100mm steel washered brass butt hinges</p> <p>Transomes for fanlights shall be fitted with a pair of 75mm steel washered butt hinges</p>				
	<p>Carried Forward</p>				R
	<p>Section No. 4 Bill No. 8 Metalwork</p>				

	Brought Forward			R
	<p><u>The following items to be priced in accordance with the above schedules to include all items viz., frame, sealing, ironmongery, protection, etc., complete (glazing and painting elsewhere measured)</u></p> <p><u>GALVANISED STEEL DOOR FRAMES</u></p> <p><u>1,2mm Double rebated pressed steel frames suitable for one brick wall</u></p>			
1	Frame for door size 813 x 2032mm high with 2 x 100mm loose pin hinges welded in position.	No	2	
2	Frame for door size 1000 x 2032mm high with 2 x 100mm loose pin hinges welded in position.	No	1	
	<p><u>GALVANISED STEEL WINDOWS</u></p> <p><u>Durowin steel residential windows or equally approved</u></p>			
3	Window size 750 x 1100mm high	No	9	
	<p><u>GALVANISED MILD STEEL</u></p> <p><u>Galvanize mild steel gate with frame 40 x 8mm mild steel flat bar, 30 x 6mm horizontal flat bars, 4 or 8 No of 40 x 40 x 8mm mild steel fixing lungs, 12mm diameter holes for 10mm diameter stainless steel anchor bolt including key and locking mechanism</u></p> <p><u>The following items to be priced in accordance with the above schedules to include all items viz., frame, sealing, ironmongery, protection, etc., complete (glazing and painting elsewhere measured)</u></p>			
4	Type Gate - 3 size 1800 x 2100mm high	No	1	
	Carried Forward to Summary of Section No. 4			R
	Section No. 4			
	Bill No. 8			
	Metalwork			

Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO. 9</u>				
	<u>PLASTERING</u>				
	The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	<u>Trade names</u>				
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description				
	<u>SCREEDS</u>				
	<u>Untinted granolithic on concrete</u>				
1	30mm Thick on floors and landings	m2	3		
	<u>SCREEDS</u>				
	<u>30mm thick installed to SABS standards Class 2, Strength Category C sand-cement screed</u>				
2	30mm Thick on floors and landings	m2	29		
	<u>INTERNAL PLASTER</u>				
	<u>One coat cement plaster (1:5), 6-8mm as described on brickwork or concrete on:</u>				
3	On walls	m2	168		
4	On narrow widths	m2	4		
	Carried Forward			R	
	Section No. 4 Bill No. 9 Plastering				

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 10</u></p> <p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>				
	<p><u>RAINWATER DISPOSAL</u></p> <p><u>Square profile aluminium seamless gutter, overall size 140 x 150 x 0,9mm thick coated internally and externally with ColourTech G4 in colour Rich Ivory including cut and mitred angles covered with a mitre strip externally, stop ends riveted and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement fascia with 20 x 3mm dual-purpose brackets at 600mm centres using aluminium peeled rivets</u></p>				
1	150 x 140mm Aluminium profile seamless gutter with baked enamel finish fixed with concealed brackets to fascia	m	10		
2	Extra over gutters for stopped ends	No	2		
3	Extra over gutter for outlet and nozzle to suit 100 x 75mm diameter pipe	No	1		
4	75mm diameter uPVC downpipe complying with SABS 11, fixed to wall with holder bats	m	3		
5	Extra over for bend	No	1		
6	Extra over for shoe	No	1		
	Carried Forward				R
	<p>Section No. 4 Bill No. 10 Plumbing and Drainage</p>				

	Brought Forward			R
	<u>SANITARY FITTINGS</u>			
	<u>Sanitary fittings complete with all waste unions, plugs, chains, etc. including building into or fixing to building structure.</u>			
	<u>Wash hand basins:</u>			
7	455 x 290mm White wash hand basin with one tap hole (LHS) including integrated overflow and chain stay hole bolted to wall with 2 No. 10mm bolts and sealed with silicone sealant where basin meets the wall with flanged backnut manufactured accordance with SANS 226:2004	No	5	
	<u>Water closets:</u>			
8	Close couple front flush WC suite with 90 degree outlet open rim pan and matching 9 litre front single flush cistern complete with lid, fitments and flush pipe bedded to floor in 1:4 cement mortar mixture including toilet seat cover (colour: white)	No	5	
9	Floor mounted paraplegic WC pan wash down suite colour white comprising 90 degree outlet pan and matching 9 litre cistern including lid, fitments and purpose made chromium plated side flush lever and B2 economy double flap thermoset seat	No	1	
	<u>Urinals:</u>			
10	Atlas BS 40 urinal or other approved urinal including brackets, waste water and T/entry spreader	No	2	
11	Lecico or other approved urinal separator (product code 705200WH)	No	1	
	Carried Forward			R
	Section No. 4 Bill No. 10 Plumbing and Drainage			

	Brought Forward			R
	<u>TAPS, ETC.</u>			
	<u>Chrome plated:</u>			
12	15mm Chrome plated elbow action raised nose pillar tap with blue indicator for cold water manufactured in accordance with SANS 226:2004 Type 2 (BS 5412)	No	4	
13	Cobra medicak pillar tap with 1 elbow action lever in chrome (cold water) with 1/4 turn ceramic disc headpart and a blue indice for cold water including flange backnut and 1/2 BSP male iron connection end	No	1	
	<u>WASTE UNIONS, ETC.</u>			
	<u>TRAPS, ETC.</u>			
	<u>Valves, taps etc, assembled and fixed complete</u>			
	<u>Chrome plated:</u>			
14	40mm Chrome plated deal seal bottle trap with outlet for 50mm PVC pipe (CODE: COB-345/40)	No	6	
15	40mm 316 Chrome plated un slotted bath or sink waste union	No	5	
16	22mm Brass high pressure screw down stop cock	No	10	
	<u>WATER SUPPLIES</u>			
	<u>Prices for pipes in ground are to include for excavations 700mm deep, for 100mm bed of sand under pipes and for selected backfilling with no stones larger than 15mm to 300mm above pipe before the remainder is backfilled. All backfilling is to be compacted to 93% Mod AASHTO</u>			
	<u>Class 12 polyethylene piping with Plasson fittings</u> Note: Prices for 15,22 & 28mm pipework are to include for all necessary fittings, etc.			
	<u>Copper piping to SABS 460 Class 0 hard drawn with gunmetal or capillary fittings</u>			
17	22mm Piping in ground including all necessary fittings	m	50	
18	22mm Piping fixed to walls or ceilings, etc	m	30	
	Carried Forward			R
	Section No. 4 Bill No. 10 Plumbing and Drainage			

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
FOR COGTA KZN**

		Brought Forward		R
19	15mm Piping fixed to walls or ceilings, etc	m	25	
	<u>Fittings</u>			
20	15mm Fittings	No	15	
21	22mm Fittings	No	15	
	<u>SANITARY PLUMBING</u>			
	<u>uPVC pipes for use above ground:</u>			
22	110mm Diameter pipe	m	10	
23	50mm Diameter pipe	m	15	
24	50mm Waste or vent pipe fixed to walls, etc	m	10	
25	110mm Waste or vent pipe fixed to walls, etc	m	12	
26	110mm uPVC pipe including excavation for trenches not exceeding 1.00m deep	m	20	
	<u>Extra over uPVC pipes for fittings:</u>			
27	50mm Bend	No	10	
28	50mm IE Bend	No	8	
29	50mm T junction	No	2	
30	110mm IE Bend	No	5	
31	110mm Bend	No	5	
32	110mm Vent cowl	No	6	
33	110mm IE Junction	No	5	
34	110mm Gully trap	No	2	
35	110mm Pan connector	No	6	
36	110mm Roding eye	No	2	
	Carried Forward to Summary of Section No. 4			R
	Section No. 4			
	Bill No. 10			
	Plumbing and Drainage			

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
FOR COGTA KZN**

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 11</u></p> <p><u>GLAZING</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>			
1	<p><u>MIRROR</u></p> <p>Grade 304 13mm 18/10 Stainless steel mirrors size 500 x 600 x 13mm deep concealed thief resistant fixings plugged and screwed to the wall with stainless steel screws</p>	No	5	
	<p>Carried Forward to Summary of Section No. 4</p> <p>Section No. 4 Bill No. 11 Glazing</p>			R

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
FOR COGTA KZN**

Item No		Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 12</u></p> <p><u>PAINTWORK</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>				
	<p><u>PAINTWORK TO NEW SURFACES</u></p> <p><u>INTERNAL PLASTER</u></p> <p><u>Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less, prime with one coat Plaster Primer (UC 56) with an over-coating time of 16 hours and finish with two coats Dulux or other approved Double Velvet paint with 2 hours drying time between coats, for a maintenance cycle of 15 years in a C1 - inland environment (colour: TBC)</u></p>				
1	Internal plastered walls	m2	172		
	Carried Forward				R
	Section No. 4 Bill No. 12 Paintwork				

Brought Forward				R
<u>EXTERNAL PLASTER</u>				
<u>Remove all dirt, dust, lose and flacking paint and chalk before painting. wash walls with sugar soup solution and ensure surfaces are sound, clean and thoroughly dry and apply spot primer one coat "Dulux Trade Alkali" resistant primer and two finishing coats "Dulux" or other approved wall guard lowsheen in strict accordance as per manufacturers instructions or equally approved paint specification as per Architects instructions (Colour: TBC)</u>				
2	External plastered walls	m2	40	
<u>ON FIBRE CEMENT</u>				
<u>Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less, prime with one coat Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats Polvin Super Acrylic (EPL) with 1 hour drying time between coats (colour: TBC)</u>				
3	External fibre cement fascias and barge boards	m2	2	
<u>ON WOOD</u>				
<u>Sand down and apply one coat 'Wood Primer', one coat 'Universal Undercoat' and two finishing coats ' water based Enamel' on (colour: TBC):</u>				
4	Doors	m2	32	
Carried Forward to Summary of Section No. 4				R
Section No. 4				
Bill No. 12				
Paintwork				

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
FOR COGTA KZN**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 1</u>			
	<u>SEPTIC TANK</u>			
	The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities			
	<u>Trade names</u>			
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description			
	<u>SITE CLEARANCE ETC</u>			
1	Dig up and remove rubbish, debris, vegetation, hedges, shrubs and bush etc including trees not exceeding 200mm girth	m2	29	
2	Strip average 150mm thick layer of top soil and stockpile on site.	m2	29	
	<u>SEPTIC TANK</u>			
3	6000 Litres underground/conservancy tank or septic tank other approved septic tank size 2500mm long x 1900mm high or 3330mm x 208mm high (1950mm diameter) with 100% virgin LLDPE material and 10 year warranty, including excavation, filling and Minimum 150mm crusher dust or a coarse sand/gravel mixture or other approved bedding as per engineers details	No	1	
	<u>FRENCH DRAIN</u>			
	<u>Excavate in earth not exceeding 2m deep:</u>			
4	Reduce levels under solid floors, aprons, etc.	m3	3	
5	Bases/ holes	m3	15	
	Carried Forward			R
	Section No. 5 Bill No. 1 Septic Tank			

Brought Forward			R
<u>Risk of collapse of excavations other than bulk:</u>			
6	Sides of trench or hole excavations not exceeding 1,5m deep	m2	53
<u>Filling with suitable and approved coarse sand or fine gravel material supplied and carted onto site by the contractor, deposited in 100mm thick layers and compacted to a density of at least 95% Mod. AASHTO maximum density:</u>			
7	Under surface beds, pits, etc.	m3	9
<u>Surface Preparation</u>			
8	Trim and level off surface of ground (excavated or filled under this contract to receive crusher run base course, etc., including excavating or filling ripping and scarifying as necessary and compacting the whole area for a depth of 150mm to a density of at least 95% Mod AASHTO maximum density, part to falls.	m2	8
<u>Extra over all excavations for loading, carting and dumping excavated material (no allowance made for increase in bulk)</u>			
9	Off site to a dumping site to be found by the Contractor	m3	13
<u>Filling with selected and approved material from the excavations compacted to a density of at least 98% Mod. AASHTO maximum density:</u>			
10	Backfilling to trenches, holes, etc.	m3	5
<u>Keeping excavations free of water:</u>			
11	Allow for keeping excavations free of all water other than subterranean water.		Item
<u>Prescribed density test on filling:</u>			
12	Modified AASHTO Density test.	No	3
<u>Sundries</u>			
13	Geofabrick Bidim U14or other approved geotextile, 400mm wider than trench between soil and stone.	m2	44
Carried Forward to Summary of Section No. 5			R
Section No. 5			
Bill No. 1			
Septic Tank			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 2</u>			
	<u>RAINWATER TANKS AND STANDS</u>			
	The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities			
	<u>Trade names</u>			
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description			
	<u>THE FOLLOWING IN RAINWATER WATER TANK STAND</u>			
	<u>EARTHWORKS:</u>			
	<u>Excavate in earth not exceeding 2,00 m deep below natural fill or reduced ground level for:</u>			
1	Trenches	m3	9	
	<u>Extra over excavation other than bulk in earth for excavation in:</u>			
2	Soft rock	m3	1	
3	Hard rock	m3	0.5	
	<u>Return fill and ram</u>			
4	Backfilling to holes, trenches, etc., including compacting to 95 % Modified AASHTO dry density	m3	80	
	<u>Risk of collapse of excavations</u>			
5	Allow for risk of collapse to sides of excavations to trenches, column bases, etc., from ground level to exceeding 1,50 m deep	m2	22	
	Carried Forward			R
	Section No. 5 Bill No. 2 Rainwater Tanks and Stands			

Brought Forward		R
<u>Extra over all excavations for carting away</u>		
6	Extra over all excavations for carting away surplus excavated material from the site and dumping at a dumping ground to be found by the Contractor	68
<u>FILLING</u>		
Note : All filling whether obtained from the stockpiles or an outside source must be approved by the Architect/Structural Engineer		
7	Filling behind retaining walls, under surface beds, etc., in selected material supplied by the Contractor, carted onto site, spread, levelled, watered, and compacted to 98 % AASHTO dry density in 150 mm thick layers as specified	1
<u>Ant poisoning</u>		
8	Poisoning of ground surfaces under floors against termites including raking out 50 mm deep v-shaped channel against inner face of walls, etc., and flooding with termite poisoning as described	5
Note : Where concrete is described as "cast against excavated surfaces" the Contractor is to allow in his rates for additional concrete to make up this tolerance/overbreak. The final net volumes of concrete shall be measurable from drawings only and no claims with regard to additional concrete to compensate for tolerances shall be entertained		
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>		
<u>Concrete (15 MPa) in:</u>		
9	Surface blinding	0.4
Carried Forward		R
Section No. 5 Bill No. 2 Rainwater Tanks and Stands		

	Brought Forward			R
	<u>REINFORCED CONCRETE</u>			
	<u>25MPa/19mm concrete</u>			
10	Footings	m3	3	
11	Tank base	m3	1	
	<u>Rainwater channel:</u>			
12	1000 x 150mm High smooth finished open V-shaped channels cast in alternative panels to falls including shallow excavations, carting away surplus material, shaping and grading ground as required including mesh Ref 193, and all necessary formwork, expansion / movement joint material and sealing thereof.	m	9	
	<u>CONCRETE TESTING</u>			
13	Allow for making set of (6) six concrete test cubes, sending to an approved testing authority for testing and paying all charges in connection therewith	No	2	
	<u>Concrete Sundries</u>			
14	Finish top of surfaces of concrete surface beds, etc with a power float	m2	5	
	<u>REINFORCEMENT</u>			
	<u>Fabric reinforcement</u>			
15	Type 193 fabric reinforcement in concrete surface beds, slabs, ducts, etc	m2	5	
	<u>WATERPROOFING</u>			
	<u>One layer of 250 Micron "Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
16	Under surface beds	m2	5	
	Carried Forward			R
	Section No. 5 Bill No. 2 Rainwater Tanks and Stands			

Brought Forward		R
<u>MASONRY</u>		
<u>BRICKWORK OF NFX BRICKS IN CLASS ONE MORTAR</u>		
<u>BRICKWORK IN FOUNDATIONS</u>		
<u>Brickwork of NFX' bricks (14 MPa compressive strength) in Class I mortar:</u>		
17	One brick wall in two half brick thickness with staggered galvanized mild steel butterfly cavity ties bedded in cement mortar, 5 tiers per 1 square metre	m2 6
<u>Brickwork of NFX bricks in class I mortar in loadbearing walls, etc</u>		
18	One brick wall in stretcher bond	m2 5
<u>30 - 40 Mpa "Fireside Travertine Imperial FBA" clay facebrick or other equal approved face bricks in Class II mortar and pointed with square recessed horizontal and vertical joints suitable for exposure zones 1-2</u>		
19	Extra over ordinary brickwork for face brickwork	m2 5
<u>Brick reinforcement to walls and lintels well lapped at all angles and passings and built into brickwork including all cutting and waste:</u>		
20	Brick reinforcement 150 mm wide to one brick wall	m 60
<u>RAINWATER TANKS</u>		
21	2500 Litre plastic water tank placed vertically in position of tank stand (stand elsewhere measured)	No 1
22	5mm Link galvanised steel chain pulled into 25mm hose pipe and securing tank and to tank stand.	m 22
23	8mm Diameter galvanised steel U-bolt with nuts and washers securing two chains at cross-over at top.	No 4
24	Expansion anchor with 10mm diameter bolt including drilling brickwork and fixing chain to wall.	No 4
Carried Forward		R
Section No. 5 Bill No. 2 Rainwater Tanks and Stands		

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
FOR COGTA KZN**

	Brought Forward			R
25	15mm Brass lockable bib tap fixed to plastic rainwater tank including hole through side of tank and short length of threaded pipe with two nuts, washers and sealing washers.	No	1	
26	50mm PVC overflow outlet from tank comprising about 3m girth of pipe twice fixed with holderbats to brick base of tank stand and including the necessary threaded connection and sealing washers and including hole through tank.	No	1	
Carried Forward to Summary of Section No. 5				
Section No. 5				R
Bill No. 2				
Rainwater Tanks and Stands				

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 3</u></p> <p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p>The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities</p> <p><u>Trade names</u></p> <p>Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description</p>			
	<p><u>WATER SUPPLIES</u></p> <p><u>HDPE Class 12 pipes jointed together laid to falls in ground, including excavating trenches, flexible bedding and surround, backfilling, disposal of excess material spread on site, compaction, risk of collapse to sides of excavations, dewatering of trenches, anchor blocks, etc (all as per specification and drawing No. 2100045-C-4000-DD)</u></p>			
1	50mm Diameter pipes laid in ground not exceeding 1m deep	m	30	
2	50mm Diameter pipes laid in ground exceeding 1m but not exceeding 2m deep	m	20	
	<u>Extra over on piping for</u>			
3	50mm couplings	No	2	
4	50mm Equal Tee	No	2	
5	50mm Bend	No	4	
	Carried Forward			R
	<p>Section No. 5 Bill No. 3 Plumbing and Drainage</p>			

Brought Forward			R
<u>Non-return valve</u>			
6	22mm Diameter non-return gate valve complete with twin booster connection	No	1
<u>TESTING WATER RETICULATION</u>			
7	Testing the all external reticulation system (water supplies, and sewer reticulation)		Item
<u>THE FOLLOWING IN SEWER RETICULATION</u>			
<u>Class 9 uPVC sewer pipes jointed together laid to falls in ground, including excavating trenches, flexible bedding and surround, backfilling, disposal of excess material spread on site, compaction, risk of collapse to sides of excavations, dewatering of trenches, anchor blocks, etc</u>			
8	160mm uPVC pipe in foundations exceeding 1m deep including bedding	m	30
9	160mm uPVC pipe in foundations exceeding 1m and not exceeding 2m deep including bedding	m	20
<u>Extra over on piping for</u>			
10	Cleaning eye consisting of 110mm diameter cast iron ABC cover	No	2
11	160mm x 45/90 degrees uPVC bend	No	3
12	160mm Diameter Three-way junction	No	2
13	160mm Diameter uPVC inspection pipe 1600mm long with cover	No	2
<u>Sundries</u>			
14	25Mpa/19mm Concrete anchor or thrust blocks	m3	1
Carried Forward to Summary of Section No. 5			R
Section No. 5			
Bill No. 3			
Plumbing and Drainage			

SECTION SUMMARY - EXTERNAL WORKS

Bill No		Page No	Amount
1	Septic Tank	107	
2	Rainwater Tanks and Stands	112	
3	Plumbing and Drainage	114	
Carried to Final Summary			R
Section No. 5			

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
FOR COGTA KZN**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 1</u>			
	<u>PROVISIONAL SUMS</u>			
	The tenderer is referred to the relevant Clauses in the Model Preambles for Trades 2008 as issued by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities			
	<u>Trade names</u>			
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description			
	<u>BORE HOLE</u>			
1	Provide the sum of R 50 000.00 (Fifty Thousand Rands) for Servicing of existing boreholes	Item		50 000.00
2	Allow for profit and attendance on the above, if required.	%		
	<u>BOOSTER PUMP</u>			
3	Provide the sum of R 20 000.00 (Twenty Thousand Rands) for booster pump	Item		20 000.00
4	Allow for profit and attendance on the above, if required.	%		
	Carried to Final Summary			
	Section No. 6			
	Bill No. 1			
	Provisional Sums			
			R	

**ADDITIONS AND ALTERATIONS TO SHABALALA TAC
FOR COGTA KZN**

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	PRELIMINARIES AND GENERALS	17	
2	EXISTING OFFICE BLOCK	44	
3	NEW HALL	76	
4	ABLUTIONS	105	
5	EXTERNAL WORKS	115	
6	PROVISIONAL SUSMS	116	
	SUB TOTAL		R
	<u>CONTINGENCIES</u>		
	Add Contingencies @ 5%		R
	SUB TOTAL		R
	ADD VAT @ 15%		R
	Carried to Form of Tender		R