

Item No	Description	Unit	Quantity	Rate	Amount
	<p><b><u>BILL NO. 1</u></b></p> <p><b><u>PRELIMINARIES (PROVISIONAL)</u></b></p> <p><b>Note:</b> Tenderers are advised to study the Model Preambles for Trades before pricing the Bill.</p> <p><b>Note:</b> Unless otherwise stated herein, all items in the Bill shall be deemed to be a fixed price for the duration of this project</p> <p><b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b></p> <p>The <b>JBCC</b> Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The <b>JBCC</b> Principal Building Agreement <b>contract data</b> form an integral part of this <b>agreement</b></p> <p>The <b>JBCC</b> General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the <b>JBCC</b> Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these <b>bills of quantities</b>, amended as hereinafter described</p> <p>The <b>contractor</b> is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause</p> <p>The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only</p> <p>Where any item is not relevant to this <b>agreement</b> such item is marked N/A signifying "not applicable"</p> <p>Where standard clauses or alternatives are not entirely applicable to this <b>agreement</b> such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the abovementioned documents</p> <p><b><u>PREAMBLES FOR TRADES</u></b></p> <p>The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these <b>bills of quantities</b> and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p>				
Carried Forward					

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	<p><b>Brought Forward</b></p> <p>Supplementary preambles and / or specifications are incorporated in these <b>bills of quantities</b> to satisfy the requirements of this project. Such supplementary preambles and / or specifications shall take precedence over the provisions of the General Preambles</p> <p>The <b>contractor's</b> prices for all items throughout these <b>bills of quantities</b> shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and / or specifications</p> <p><b><u>STRUCTURE OF THIS PRELIMINARIES BILL</u></b></p> <p>Section A : A recital of the headings of the individual clauses in the aforementioned <b>JBCC</b> Principal Building Agreement</p> <p>Section B : A recital of the headings of the individual clauses in the aforementioned <b>JBCC</b> General Preliminaries</p> <p>Section C : Any special clauses to meet the particular circumstances of the project</p> <p><b><u>PRICING OF PRELIMINARIES</u></b></p> <p>Should the <b>contractor</b> select Option A in the <b>contract data</b> for the adjustment of <b>preliminaries</b>, the amounts entered against the relevant items in these <b>preliminaries</b> are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)</p> <p><b><u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u></b></p> <p><b><u>Interpretation (A1-A7)</u></b></p> <p>Clause 1.0 - Definitions and interpretation</p> <p><b>Pricing of bills of quantities</b></p> <p>The <b>contractor</b> is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this <b>agreement</b>. Value Added Tax (VAT) is to be separately stated on the summary page of these <b>bills of quantities</b></p> <p>Items left unpriced will be deemed to be covered in prices against other items throughout these <b>bills of quantities</b> and no claim for any extras arising out of the <b>contractor's</b> omission to price any item will be entertained</p>				
<b>Carried Forward</b>					

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	<p><b>Brought Forward</b></p> <p>Prices for all <b>construction equipment</b>, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary</p> <p>The items in these <b>bills of quantities</b> utilise abbreviated descriptions. It is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. However, should the full intent and meaning of any description not be clear, the <b>contractor</b> shall, before submission of his tender, call for a written directive from the <b>principal agent</b>, failing which it shall be assumed that the <b>contractor has allowed in his pricing for materials and workmanship in terms of international best practice</b></p> <p><b>Legal status of contractor</b></p> <p>If the <b>contractor</b> constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then:</p> <p>1. These persons are deemed to be jointly and severally liable to the <b>employer</b> for the performance of this <b>agreement</b></p> <p>2. These persons shall notify the <b>employer</b> of their leader who has assigned authority to bind the <b>contractor</b> and each of these persons</p> <p>3. The <b>contractor</b> shall not alter its composition or legal status without the prior written consent of the <b>employer</b></p> <p>F:..... V:..... T:.....</p> <p>Clause 5.0 - Documents</p> <p><b>Value Added Tax</b></p> <p>Provision is made in the summary page of these <b>bills of quantities</b> for the inclusion of Value Added Tax (VAT)</p> <p><b>Priced document as specification</b></p> <p>Clause 5.4 is deemed to be deleted</p> <p>The <b>principal agent</b> shall decide which portion of the <b>priced document</b> may be used as a specification of <b>materials and goods</b> or methods, if any</p> <p><b>Electronic issue of drawings</b></p> <p>All drawings for this project will be issued electronically and the <b>contractor</b> shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically [5.6]</p>				
<b>Carried Forward</b>					

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	<p><b>Electronic issue of drawings</b></p> <p>All drawings for this project will be issued electronically and the <b>contractor</b> shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically [5.6]</p> <p>Clause 12.0 - Obligations of the <b>parties Statutory and other notices</b> The <b>contractor</b> shall submit and/or comply with all statutory and other notices that may be required by any local or other authority in order not to cause any delay to the commencement of the <b>works</b> by the <b>contractor</b>.</p> <p>The <b>contractor</b> shall pay all deposits or fees in this regard</p> <p>It is, however, specifically recorded that the <b>employer</b> shall be responsible for the timeous approval of building plans by any local or other authorities and the payment of any fees or charges related thereto</p> <p>All drawings for this project will be issued electronically and the <b>contractor</b> shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically [5.6]</p> <p>Clause 12.0 - Obligations of the <b>parties Statutory and other notices</b> The <b>contractor</b> shall submit and/or comply with all statutory and other notices that may be required by any local or other authority in order not to cause any delay to the commencement of the <b>works</b> by the <b>contractor</b>.</p> <p>The <b>contractor</b> shall pay all deposits or fees in this regard</p> <p>It is, however, specifically recorded that the <b>employer</b> shall be responsible for the timeous approval of building plans by any local or other authorities and the payment of any fees or charges related thereto</p> <p>Clause 14.0 - Nominated <b>subcontractors</b></p> <p>Clause 15.0 - Selected <b>subcontractors</b> Clause 16.0 - <b>Direct contractors</b> <b>Attendance on direct contractors</b> In respect of <b>direct contractors</b> the <b>contractor</b> shall:</p> <ol style="list-style-type: none"> <li>1. Designate an area for the <b>direct contractor</b> to establish a temporary office and workshop and storage of equipment and materials</li> <li>2. Allow the use of personnel welfare facilities, where provided</li> <li>3. Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation</li> <li>4. Permit the <b>direct contractor</b> to use erected scaffolding, hoisting facilities, etc provided by the <b>contractor</b>, in common with others having the like right, while it remains erected on the <b>site</b> [16.1]</li> </ol>				
<b>Carried Forward</b>					

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	<p>Clause 17.0 - <b>Contract instructions Site instructions</b> Instructions issued on <b>site</b> are to be recorded in a site instruction book which is to be supplied and maintained on <b>site</b> by the <b>contractor</b></p> <p>Clause 18.0 - Interim completion Clause 20.0 - Completion in <b>sections</b> Clause 21.0 - <b>Defects</b> liability period and <b>final completion</b></p> <p>Clause 23.0 - Revision of the date for <b>practical completion</b></p> <p><b>Substitution of materials and goods</b></p> <p>The removal or substitution of any <b>materials and goods</b> which do not conform to the specification or the <b>contract drawings</b> shall not constitute grounds for the extension of the <b>construction period</b> nor for the adjustment of the <b>contract value</b> [17.1.8; 23.1 &amp; 2]</p> <p>Clause 25.0 - Payment</p> <p><b>Prices submitted</b></p> <p>Where prices are submitted by the <b>contractor</b> or <b>subcontractor</b> during the progress of the <b>works</b> in respect of <b>contract instructions</b> or in regard to a claim under the terms of this <b>agreement</b> and notwithstanding the fact that such prices may be used in an interim <b>payment certificate</b>, there is to be no presumption of acceptance. Should the <b>principal agent</b> wish to accept any such prices prior to the issue of the <b>certificate of final completion</b>, it shall be in writing</p> <p>Clause 26.0 - Adjustment of the <b>contract value</b> and <b>final account Cost of claims</b> All costs incurred by the <b>contractor</b> in the preparation of claims shall be borne by the <b>contractor</b>. This provision shall not preclude an adjudicator or an arbitrator appointed in terms of this <b>agreement</b> [30.6 &amp; 7] from making a determination on costs</p> <p><b>Claims from subcontractors</b></p> <p>The <b>contractor</b> shall review, assess and adjudicate any claims received by him from any <b>subcontractor</b> and thereafter submit same to the <b>principal agent</b> with a recommendation in order to assist the <b>principal agent</b> in adjudicating the claim [26.6]</p> <p>Clause 28.0 - Suspension by the <b>contractor</b></p> <p>Clause 29.0 - Termination</p> <p><u><b>Agreement Contract data</b></u> <b>Tenderer's selections</b></p> <p>Before submission of his tender the <b>contractor</b> is to complete the tenderer's selections in the <b>contract data</b></p>				
<b>Carried Forward</b>					

Item No	Description	Unit	Quantity	Rate	Amount
	<b>Brought Forward</b>				
	Clause 2.2 - Provisional <b>bills of quantities</b>				
	Clause 2.3 - Availability of <b>construction information</b>				
	F:..... V:..... T:.....				
	Clause 9.1 - Responsibility for <b>prime cost amounts</b>				
	Clause 10.2 - Special attendance				
	<b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b>				
	Warranties for materials and workmanship				
	Where warranties for materials and/or workmanship are called for, the <b>contractor</b> shall obtain a written warranty, addressed to the <b>employer</b> , from the entity supplying the materials and/or executing the work and shall deliver same to the <b>principal agent</b> on <b>final completion</b> of the contract				
	The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of <b>practical completion</b> and that any <b>defects</b> that may arise during the specified period shall be made good at the expense of the entity supplying the materials and/or doing the work, upon written <b>notice</b> to do so				
	Health and safety				
	Without limiting the generality of the provisions of clause 2.0, the <b>contractor's</b> 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 <b>employer</b> shall prepare a documented health and safety specification for the <b>works</b> and that the <b>employer</b> shall ensure that the <b>contractor</b> has made provision for the cost of health and safety measures during the execution of the <b>works</b> . The <b>contractor</b> 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]				
	<b>Carried Forward</b>				



Item No	Description	Unit	Quantity	Rate	Amount
	<p><b><u>SECTION No. 2</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>ALTERATIONS (PROVISIONAL)</u></b></p> <p><b>Note:</b> Tenderers are advised to study the "Model Preambles for Trades 2008" before pricing this schedule as issued by the Association of South African Quantity Surveyors and any amplification/s stated hereunder</p> <p><b>Note:</b> Unless otherwise stated herein, all items in the Bill shall be deemed to be a fixed price for the duration of this project</p> <p><b><u>View site</u></b></p> <p><b>The tenderers are required to familiarise themselves on site with the dimensions, material and work required in order to price each item correctly in this bill of quantities</b></p> <p>Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials salvageable from the alterations. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p><b><u>General</u></b></p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to tenants in the building and to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p> <p>Doors, fanlights, windows, fittings, frames, linings, etc which are to remain the property of the employer shall be carefully taken out, temporarily stored, transported to the stores and handed over to the employer</p> <p>Doors, fanlights, windows, fittings, frames, linings, etc which are to be reused shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately</p> <p>Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc</p> <p>Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc</p>				
<b>Carried Forward</b>					



Item No	Description	Unit	Quantity	Rate	Amount
	<b>Brought Forward</b>				
	With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork				
	Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary				
	The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows,				
	<b><u>Credit for old materials</u></b>				
	Provision is made in the final summary to quote for the value of old materials and measured elsewhere (Section: Removal of Existing Work refers)				
	<b><u>REMOVAL OF EXISTING WORK</u></b>				
	<b><u>Break up and removing reinforced concrete including cutting off and removing reinforcement</u></b>				
1	Concrete ramp and landings	m <sup>3</sup>	0.45		
2	Concrete working benches size 5500 x 800mm	No	1		
3	Concrete bath size 3720 x 1240mm	No	1		
	<b><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></b>				
4	Glazed steel window not exceeding 2,5m <sup>2</sup> from half or one brick wall	No	1		
	<b><u>Taking out doors, windows, etc. including thresholds, sills, etc. and setting aside for re-use (refixing and building up openings elsewhere)</u></b>				
5	Glazed window precast block from one brick wall	No	1		
6	Steel double door and steel frame exceeding 2,5m <sup>2</sup> and not exceeding 5,0m <sup>2</sup> from one brick wall	No	1		
	<b><u>Refixing of existing doors, windows, etc. (removal and setting aside elsewhere)</u></b>				
7	Setting up and building in steel double door frame 1700 x 2060mm high in brickwork, rehanging double door and replacing lock with four lever mortice lock including rebated	No	1		
	<b><u>BUILDING UP OPENINGS</u></b>				
	<b><u>Brickwork in NFP bricks in class II mortar in building up openings</u></b>				
<b>Carried Forward</b>					

Item No	Description	Unit	Quantity	Rate	Amount
	<b>Brought Forward</b>				
8	One brick walls	m <sup>2</sup>	5		
	<b><u>OPENINGS THROUGH EXISTING WALLS, ETC.</u></b>				
	<b><u>Altering openings</u></b>				
9	Altering opening in one brick wall where glazed precast window was removed to form opening for new roller shutter door including frame 2400 x 2400mm high overall by breaking out brickwork on both sides and bottom including necessary precast concrete lintel and making good plaster on both sides (new door and frame and making good paintwork elsewhere)	No	1		
	<b><u>Breaking out for and forming plain openings through brick walls including necessary precast concrete lintels and making good plaster on both sides and into reveals and with concrete thresholds with steel trowelled finish (making good paintwork elsewhere)</u></b>				
10	Opening 1700 x 2125mm high through one brick wall	No	1		
11	Opening 877 x 2100mm high through one brick wall	No	1		
	<b><u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u></b>				
12	Existing steel framed awning/carport with corrugate sheet iron roof covering including steel post. Complete demolition size 13600 x 6400mm	Sum	1		
13	Existing "wendy house" and setting aside for re-use and later refixing in new position 15 meters away.	Sum	1		
	<b><u>Taking out/off and removing sundry metalwork</u></b>				
14	Steel cupboards underneath working benches	No	1		
	<b><u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u></b>				
15	"Prep" bowls, including taps, drainage pipes and blank off all pipes	No	4		
	<b><u>MAKING GOOD OF FINISHES ETC.</u></b>				
	<b><u>Making good of finishes etc.</u></b>				
	<b><u>Making good screed</u></b>				
16	Concrete floor where concrete bath was removed	m <sup>2</sup>	5		
17	Concrete floor where concrete working bench was removed	m <sup>2</sup>	5		
	<b><u>PAVING</u></b>				
<b>Carried Forward</b>					

Item No	Description	Unit	Quantity	Rate	Amount
	<b>Brought Forward</b>				
	<u>Lifting up, setting aside and re-laying paving blocks including backfilling and 20mm bedding sand</u>				
18	Precast concrete paving to falls	m <sup>2</sup>	6		
	<b><u>GENERAL MAINTENANCE</u></b>				
	<u>Cleaning windows</u>				
19	All external windows must be sealed off airtight using an approved Silicone sealant to seal the frame and windows	Item	1		
<b>Carried Forward to Summary</b>					

Item No	Description	Unit	Quantity	Rate	Amount
	<p><b><u>SECTION No. 2</u></b></p> <p><b><u>BILL NO. 2</u></b></p> <p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p> <p><b>Note:</b> Tenderers are advised to study the "Model Preambles for Trades 2008" before pricing this schedule as issued by the Association of South African Quantity Surveyors and any amplification/s stated hereunder</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Nature of ground</u></b></p> <p>No soil investigation is available.</p> <p><b><u>Carting away of excavated material</u></b></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.</p> <p><b><u>Subterranean water</u></b></p> <p>No information regarding subterranean water is available. The contractor must acquaint himself of the presence and depth of subterranean water and allow therefore in his rates.</p> <p><b><u>Prices</u></b></p> <p>Prices for all filling and carting away of surplus materials must make allowance for bulking.</p> <p><b><u>Carting away of excavated material</u></b></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><b><u>Filling and layer work materials</u></b></p> <p>References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter</p> <p><b><u>Testing</u></b></p> <p><i>Prices for filling are to include for all necessary density and other tests</i></p>				
<b>Carried Forward</b>					

Item No	Description	Unit	Quantity	Rate	Amount
	<b>Brought Forward</b>				
	<b><u>SITE CLEARANCE ETC</u></b>				
	<b><u>Site clearance</u></b>				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m <sup>2</sup>	265		
2	Dig up and remove contaminated rubbish, debris, concrete slab segments, reinforced concrete elements visible on surface, etc.	m <sup>2</sup>	231		
3	Strip average 150mm. thick layer top soil . (spoil measured elsewhere)	m <sup>2</sup>	265		
4	Remove 19mm stone and paving bricks alongside the building	m <sup>2</sup>	265		
	<b><u>EXCAVATION, FILLING, ETC.</u></b>				
	<b><u>Excavation in earth not exceeding 2m. deep</u></b>				
5	Trenches.	m <sup>3</sup>			<b>Rate Only</b>
6	Holes	m <sup>3</sup>	3		
	<b><u>Hand excavation to expose existing services where ordered by the Engineer / QS</u></b>				
7	In Soft material	m <sup>3</sup>			<b>Rate Only</b>
	<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>				
8	Soft rock.	m <sup>3</sup>	0.3		
9	Hard rock.	m <sup>3</sup>	0.15		
	<b><u>Extra over excavations for carting away</u></b>				
10	Surplus material from excavations on site to a dumping site to be located by the contractor (100% of excavated material)	m <sup>3</sup>	3.45		
	<b><u>Earthfilling supplied by the contractor under roads, parking areas, paving, etc. including all haul, selection, handling, etc (No designated borrow pit available)</u></b>				
11	Selected G6 type material compacted in 150mm layers to 95% Modified AASHTO density	m <sup>3</sup>	39.75		
	<b><u>Compaction of surfaces</u></b>				
12	Compaction of ground surface under roads and parking areas including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m <sup>2</sup>	265		
<b>Carried Forward</b>					

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	<b><u>Compaction of surfaces</u></b>				
12	Compaction of ground surface under roads and parking areas including scarifying for a depth of 150mm, breaking down oversize material, addinng suitable material where necessary and compacting to 90% Mod AASHTO density	m <sup>2</sup>	265		
	<b><u>TESTS</u></b>				
	<b><u>Prescribed density test on filling.</u></b>				
13	"Modified AASHTO density" test	No	5		
	<b><u>WEED KILLERS, INSECTICIDES, ETC</u></b>				
	<b><u>Soil insecticide in accordance with SANS 5859</u></b>				
14	Under paving, etc	m <sup>2</sup>	6		
15	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m <sup>2</sup>	265		
16	To bottoms and sides of trenches etc	m <sup>2</sup>	18		
<b>Carried Forward to Summary</b>					

Item No	Description	Unit	Quantity	Rate	Amount
	<p><b><u>SECTION No. 2</u></b></p> <p><b><u>BILL NO. 3</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></p> <p><b>Note:</b> Tenderers are advised to study the "Model Preambles for Trades 2008" before pricing this schedule as issued by the Association of South African Quantity Surveyors and any amplification/s stated hereunder</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Cost of tests</u></b></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Principal Agent/Project Manager. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Principal Agen/Project Manager. (Test cubes are measured separately)</p> <p><b><u>Formwork</u></b></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>Formwork to soffits of (solid) slabs etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.</p> <p>Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p> <p><b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b></p> <p><b><u>15MPa/20mm. concrete</u></b></p> <p>1 Surface blinding under surface beds</p> <p><b><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></b></p> <p><b><u>25MPa/20mm. concrete</u></b></p>	m <sup>3</sup>	27		
Carried Forward					

Item No	Description	Unit	Quantity	Rate	Amount
	<b>Brought Forward</b>				
2	Surface bed	m <sup>3</sup>	40		
3	Walls	m <sup>3</sup>	2		
	<b><u>TEST CUBES</u></b>				
4	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	5		
	<b><u>CONCRETE SUNDRIES</u></b>				
	<b><u>Finishing top surfaces of concrete smooth with a steel float</u></b>				
5	Surface beds, slabs, etc to falls	m <sup>2</sup>	265		
	<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b>				
6	Walls (Provisional)	m <sup>2</sup>	48		
	<b><u>MOVEMENT JOINTS, ETC.</u></b>				
	<b><u>Saw cut joints</u></b>				
7	5 x 35mm. saw cut jointson top of concrete	m	107		
	<b><u>REINFORCEMENT</u></b>				
	<b><u>Mild steel reinforcement to structural concrete work</u></b>				
8	All diameter bars	t			<b>Rate Only</b>
	<b><u>Fabric reinforcement</u></b>				
9	Type Ref. 193 in concrete surface beds, slabs, etc.	m <sup>2</sup>	265		
10	Type Ref. 617 in concrete walls, slabs, etc.	m <sup>2</sup>	12		
<b>Carried Forward to Summary</b>					



Item No	Description	Unit	Quantity	Rate	Amount
	<p><b><u>SECTION No. 2</u></b></p> <p><b><u>BILL NO. 4</u></b></p> <p><b><u>MASONRY</u></b></p> <p><b>Note:</b> Tenderers are advised to study the "Model Preambles for Trades 2008" before pricing this schedule as issued by the Association of South African Quantity Surveyors and any amplification/s stated hereunder</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>BRICKWORK</u></b></p> <p><b><u>Size and descriptions</u></b></p> <p>Where sizes in descriptions are given in brick units, "One brick" shall represent length and "Half brick" the width of a brick</p> <p><b><u>Hollow walls, etc</u></b></p> <p>Description of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole</p> <p><b><u>User Note</u></b></p> <p>The following preamble generally applies for works in hot and humid coastal areas</p> <p><b><u>Bagged and sealed walls</u></b></p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating</p> <p><b><u>Face bricks</u></b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><b><u>Pointing</u></b></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.</p> <p><b><u>BLOCKWORK</u></b></p> <p><b><u>Concrete masonry units</u></b></p> <p>Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 14MPa</p>				
<b>Carried Forward</b>					

Item No	Description	Unit	Quantity	Rate	Amount
	<b>Brought Forward</b>				
	<b><u>Wall ties for blockwork</u></b>				
	Wall ties shall be polypropylene ties complying with BS76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other				
	<b><u>Blockwork</u></b>				
	Blockwork shall comply with SANS 10145 "Concrete Masonry Construction"				
	Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole				
	<b><u>BRICKWORK</u></b>				
	<b><u>FACE BRICKWORK</u></b>				
	<b><u>Face brick pointed with recessed horizontal and vertical joints. (Allow P.C. amount of R7,500.00 per 1000 for supply and delivery)</u></b>				
1	Half brick walls support to counter tops	m <sup>2</sup>	3		
	<b><u>Reinforcement to brickwork</u></b>				
2	75mm wide brick force built in horizontally	m	9		
	<b><u>Prestressed fabricated lintels</u></b>				
3	110 x 75mm. lintels in lengths not exceeding 3m.	m	46		
	<b><u>BUDGETARY ALLOWANCES</u></b>				
4	Allow the Budgetary Allowance of R80 000.00 (Twenty Thousand Rand) NET for Braai and Cowl to be used as directed by the Project Manager and deducted in whole or in part if not required	Item	1		
	<b><u>SCREEDS</u></b>				
	<b><u>Cement screeds wood floated on concrete</u></b>				
	25mm. thick on floors and landings	m <sup>2</sup>	265		
<b>Carried Forward to Summary</b>					

Item No	Description	Unit	Quantity	Rate	Amount
	<b><u>SECTION No. 2</u></b>  <b><u>BILL NO. 5</u></b>  <b><u>WATERPROOFING</u></b>  <b>Note:</b> Tenderers are advised to study the "Model Preambles for Trades 2008" before pricing this schedule as issued by the Association of South African Quantity Surveyors and any amplification/s stated hereunder  <b><u>SUPPLEMENTARY PREAMBLES</u></b>  Waterproofing to roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Description of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turndowns  <b><u>DAMP PROOFING OF WALLS AND FLOORS</u></b>  <b><u>One layer of 375 micron "Gundle plastic Brikgrip DPC" embossed damp proof course</u></b>  1      In walls      m <sup>2</sup> 10  <b><u>One layer of 250 micron "Gundle Plastic USB Green" waterproofing sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u></b>  2      Under surface beds      m <sup>2</sup> 265  <b><u>Bitumen emulsion "abe-Flintkote 3" or equivalent waterproofing</u></b>  <b><u>On concrete walls</u></b>  3      Vertically in walls      m <sup>2</sup> 12				
Carried Forward to Summary					

Item No	Description	Unit	Quantity	Rate	Amount
	<p><b><u>SECTION No. 2</u></b></p> <p><b><u>BILL NO 6</u></b></p> <p><b><u>CARPENTRY AND JOINERY (PROVISIONAL)</u></b></p> <p><b>Note:</b> Tenderers are advised to study the "Model Preambles for Trades 2008" before pricing this schedule as issued by the Association of South African Quantity Surveyors and any amplification/s stated hereunder</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Particle board</u></b></p> <p>Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type</p> <p><b><u>Joinery</u></b></p> <p>Description of frames shall be deemed to include frames, transoms, mullions, rails, etc</p> <p>Description of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p><b><u>Fixings</u></b></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.</p> <p><b><u>Decorative laminated finish</u></b></p> <p>Laminated finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p><b><u>DOORS, ETC</u></b></p> <p><b><u>Semi Solid Timber doors hung to steel frames</u></b></p>				
1	Timber semi solid door with air vent 877 x 2125mm. High	No	1		
<b>Carried Forward to Summary</b>					

Item No	Description	Unit	Quantity	Rate	Amount
	<b><u>SECTION No. 2</u></b>  <b><u>BILL NO 7</u></b>  <b><u>IRONMONGERY</u></b>  <b>Note:</b> Tenderers are advised to study the "Model Preambles for Trades 2008" before pricing this schedule as issued by the Association of South African Quantity Surveyors and any amplification/s stated hereunder  <b><u>SUPPLEMENTARY PREAMBLES</u></b>  Finishers to ironmongery 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  <b><u>LOCKS</u></b>  <b><u>"Union" or equal and approved fixed to timber</u></b>  1 Two lever lockset (2 Keys) with striking plate fixed to metal Ref. CZ682-24-61CH. Lockset with lock, handles and keys, complete  <b><u>DOOR CLOSERS</u></b>  <b><u>"Union" fixed to timber</u></b>  2 "Union" Heavy duty regular arm door closer with bracket fixed to metal Ref. No DC 744 EN 1-6 RA DA Code: 744				
	Carried Forward to Summary				

Item No	Description	Unit	Quantity	Rate	Amount
	<p><b><u>SECTION No. 2</u></b></p> <p><b><u>BILL NO 8</u></b></p> <p><b><u>STRUCTURAL STEELWORK</u></b></p> <p><b><u>TRADE PREAMBLES</u></b></p> <p><b><u>Trade Preambles:</u></b></p> <p>Tenderers are advised to study the "Model Preambles for Trades 2008" before pricing this schedule as issued by the Association of South African Quantity Surveyors and any amplification/s stated hereunder</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Descriptions</u></b></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p><b><u>Pricing:</u></b></p> <p>Old sheets are to be removed and new sheets replaced and secured immediately and in sequence. The contractor is to ensure that no openings are left for an unreasonable period of time and certainly not over night or weekends, and that no rain is allowed to ingress into the buildings and damage equipment or disrupt production. NOTE THAT EXISTING OPERATIONS WILL BE ONGOING IN EACH OF THE BUILDINGS, and that the contractor, in conjunction with the Client regarding the relevant planned works program prior to commencement of work on the building in question.</p> <p>Prices are to include for all site welding, site cutting and site drilling that maybe required and for cold galvanising existing where disturbed.</p> <p><b><u>HOT DIPPED GALVANISED STEEL PURLINS, GIRTS, BRACING, ETC</u></b></p> <p><b><u>Structural Steel Works</u></b></p>				
1	Supply and Erection of steel carport structure complete with columns, base plates, bolts, nuts, washers and other necessary fixings complete including chromadek roof sheeting and rain watergoods as per the Engineers Specification and Drawing No. SE-702	Prov Sum	1	R 200,000.00	R 200,000.00
2	Allow for profit	%			
3	Allow for attendance	%			
<b>Carried Forward</b>					

Item No	Description	Unit	Quantity	Rate	Amount
	<b>Brought Forward</b>				
1	Supply and Erection of steel carport structure complete with columns, base plates, bolts, nuts, washers and other necessary fixings complete including chromadek roof sheeting and rain watergoods as per the Engineers Specification and Drawing No. SE-702	Prov Sum	1	R 200,000.00	R 200,000.00
2	Allow for profit	%			
3	Allow for attendance	%			
<b>Carried Forward to Summary</b>					

Item No	Description	Unit	Quantity	Rate	Amount
	<b><u>SECTION No. 2</u></b>  <b><u>BILL NO 9</u></b>  <b><u>METALWORK</u></b> <b>Note:</b> Tenderers are advised to study the "Model Preambles for Trades 2008" before pricing this schedule as issued by the Association of South African Quantity Surveyors and any amplification/s stated hereunder  <b><u>SUPPLEMENTARY PREAMBLES</u></b>  <b><u>Descriptions</u></b> Descriptions of bolts shall be deemed to include nuts and washers  Descriptions of expansion anchors and bolts an chemical anchors and bolts shall be deemed to include nuts, washers and mortises in brickwork or concrete  Metalwork described as "holed for bolts(s)" shall be deemed to exclude the bolts unless otherwise described  <b><u>ALUMINIUM SHOPFRONTS COMPLETE WITH GLAZING, HANDLES AND ALL ACCESSORIES</u></b>  <b><u>All Aluminium work to be manufactured and installed as per The Association of Architectural Aluminium Manufacturers of South Africa (AAAMSA) specifications. Glazing, clear laminated intruder proof (glazing thickness as per SANS 10400, Part N, Glazing), South African Glass and Glazing Association (SAGGA) certified and coded on completion</u></b>  <b><u>Supply and install the following Demountable glass wall</u></b>				
1	8612 x 2550 Natural Anodised Aluminium framed Demountable glass wall with midrail, fixed aluminium bottom cladding and fixed 6.8mm Safety glass to section. Frame to be fixed to bottom of concrete beams at the top, to floor and to side walls.  <b><u>"ELZETT" or equally approved</u></b>	No	1		
2	Heavy Duty Security Gate size 900 x 2125mm high complete with deadbolt lock set including hinges  <b><u>RETRACTABLE SECURITY GATES AND SCREENS</u></b>	No	1		
3	Heavy Duty Security Gate size 1700 x 2125mm high complete with pad bolt, deadbolt lock set including hinges	No	2		
<b>Carried Forward to Summary</b>					







Item No	Description	Unit	Quantity	Rate	Amount
	<p><b><u>SECTION NO.3</u></b></p> <p><b><u>BILL NO 1</u></b></p> <p><b><u>SPECIALIST WORK</u></b></p> <p><b>NOTES:</b> Tenderers are advised to study the "specification of materials and methods to be used" (EP/ASC Revision 0)</p> <p>Unless otherwise described the Preamble and full descriptions of the items in the previous Sections are to apply equally to this Section</p> <p>The following amounts are for work to be carried out by nominated subcontractors.</p> <p><b><u>SPECIALIST WORK</u></b></p> <p><b><u>Mechanical Work</u></b></p> <p><b><u>NOTE:</u></b> The items described hereunder cover work which is not fully defined at tender date and which is intended to be executed by the contractor and/or his subcontractors. The amounts shown shall be used as directed by the principal agent and shall be deducted in all or in part if not required.</p> <p><u>Bills of Quantities attached separately</u></p>				
1	An amount of Mechanical Work Services	Prov Sum	1	R 60,000.00	R 60,000.00
2	Allow for profit	%			
3	Allow for attendance	%			
<b>Carried to Final Summary</b>					

Item No	Description	Unit	Quantity	Rate	Amount
	<b><u>SECTION NO.4</u></b>  <b><u>BILL NO 1</u></b>  <b><u>SPECIALIST WORK</u></b>  <b>NOTES:</b> Tenderers are advised to study the "specification of materials and methods to be used" (EP/ASC Revision 0)  Unless otherwise described the Preamble and full descriptions of the items in the previous Sections are to apply equally to this Section  The following amounts are for work to be carried out by nominated subcontractors.  <b><u>SPECIALIST WORK</u></b>  <b><u>Electrical Work</u></b>  <b><u>NOTE:</u></b> The items described hereunder cover work which is not fully defined at tender date and which is intended to be executed by the contractor and/or his subcontractors. The amounts shown shall be used as directed by the principal agent and shall be deducted in all or in part if not required.  <u>Bills of Quantities attached separately</u>				
1	An amount of Electrical Work	Prov Sum	1	R 150,000.00	R 150,000.00
2	Allow for profit	%			
3	Allow for attendance	%			
<b>Carried to Final Summary</b>					

Section No	<b><u>FINAL SUMMARY - RENOVATION OF TRANSPORT AND CONCRETE LABS</u></b> <b><u>AT R BLOCK</u></b>	Page No		Amount
1	Preliminaries and General	7		
2	Builders Work	21		
3	Mechanical Work	23		
4	Electrical Work	24		
	<b><u>Sub-total - 1</u></b>			
	<b><u>CONTINGENCIES</u></b> Allow for Ten Percent (10%) on the sub-total above for Contingencies to be used at the discretion of the Principal Agent and to be deducted in whole or in part if not required			
	<b><u>Sub-total - 2</u></b> Value Added Tax (15%)			
	<b>TOTAL TO TENDER Carried to Form of Tender</b>			