

AGRICULTURAL RESEARCH COUNCIL

REPAIRS AND REPLACEMENT OF ROOF AT 600 BELVEDERE STREET,

ARCADIA, TSHWANE 1

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 1</u> <u>BILL NO. 1</u> <u>PRELIMINARIES</u> <u>BUILDING AGREEMENT AND PRELIMINARIES</u> The JBCC Series 2000 Principal Building Agreement (July 2007 edition 5.0 - reprint 1) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described The JBCC Principal Building Agreement Contract Data EC and the JBCC Principal Building Agreement Contract Data CE form an integral part of this agreement 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 Contractors are referred to the abovementioned documents for the intent and meaning of each clause thereof These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this agreement such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the abovementioned documents			
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Brought Forward Where any item is not relevant to this specific agreement such item is marked N/A (signifying "not applicable") <u>PREAMBLES FOR TRADES</u> The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained 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 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 <u>PRICING OF PRELIMINARIES</u> 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) <u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u>		R	
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<u>Definitions (A1)</u>			
1/1/1	Clause 1.0 - Definitions and interpretation The measuring system used for the preparation of the bills of quantities is the Standard System of Measuring Building Work (sixth edition, revised 1999) published by the Association of South African Quantity Surveyors [1.1] F:..... V:..... T:.....	Item	
<u>Objective and preparation (A2 - A14)</u>			
1/1/2	Clause 2.0 - Offer acceptance and performance obligations F:..... V:..... T:.....	Item	
1/1/3	Clause 3.0 - Documents Refer to Annexure A for a list of the contract drawings Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT) [3.5] The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any [3.9] F:..... V:..... T:.....	Item	
1/1/4	Clause 4.0 - Design responsibility F:..... V:..... T:.....	Item	
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1/1/5	Clause 5.0 - Employer's agents F:..... V:..... T:.....	Item		
1/1/6	Clause 6.0 - Contractor's site representative F:..... V:..... T:.....	Item		
1/1/7	Clause 7.0 - Compliance with laws and regulations Without limiting the generality of the provisions of clause 7.0, the contractor's attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specification [7.1] F:..... V:..... T:.....	Item		
1/1/8	Clause 8.0 - Works risk F:..... V:..... T:.....	Item		
1/1/9	Clause 9.0 - Indemnities F:..... V:..... T:.....	Item		
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1/1/16	Clause 16.0 - Site and access Certain areas will be occupied during the construction period and the contractor must execute the works with as little noise and disturbance as possible to the occupants. [16.6] F:..... V:..... T:.....	Item		
1/1/17	Clause 17.0 - Contract instructions F:..... V:..... T:.....	Item		
1/1/18	Clause 18.0 -Setting out of the works The contractor shall notify the principal agent if any encroachment of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments [18.1] F:..... V:..... T:.....	Item		
1/1/19	Clause 19.0 - Temporary works and plant Clause 19.1.1 - Enclosure of the works F:..... V:..... T:.....	Item		
1/1/20	Clause 19.1.2 - Office accommodation - provide suitable office accommodation for site meetings with tables and chairs for ten people F:..... V:..... T:.....	Item		
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1/1/21	Clause 20.0 - Nominated subcontractors Refer to the provisions on general attendance hereinafter F:..... V:..... T:.....	Item		
1/1/22	Clause 21.0 - Selected subcontractors General attendance of n/s subcontractors for pricing by the contractor shall be in accordance with the n/s agreement. Notwithstanding this provision, general attendance shall be deemed to include for the contractor to provide free of charge to any n/s subcontractor such scaffolding as may reasonably be required by such n/s subcontractor for the execution of the relevant subcontract work F:..... V:..... T:.....	Item		
1/1/23	Clause 22.0 - Employer's direct contractors F:..... V:..... T:.....	Item		
1/1/24	Clause 23.0 - Contractor's domestic subcontractors F:..... V:..... T:.....	Item		
	<u>Completion (A24 - A30)</u>			
1/1/25	Clause 24.0 - Practical completion F:..... V:..... T:.....	Item		
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1/1/26	Clause 25.0 - Works completion F:..... V:..... T:.....	Item		
1/1/27	Clause 26.0 - Final completion F:..... V:..... T:.....	Item		
1/1/28	Clause 27.0 - Latent defects liability period F:..... V:..... T:.....	Item		
1/1/29	Clause 28.0 - Sectional completion F:..... V:..... T:.....	Item		
1/1/30	Clause 29.0 - Revision of date for practical completion The removal and replacement of materials and/or workmanship which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value (Clause 29.3) F:..... V:..... T:.....	Item		
1/1/31	Clause 30.0 - Penalty for late or non-completion: 0.05% of the Contract Amount inclusive of Value Added Tax per Calendar day F:..... V:..... T:.....	Item		
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	<u>Payment (A31 - A35)</u>			
1/1/32	Clause 31.0 - Interim payment Materials and goods stored off site shall not be included in the amount authorised for payment [31.6.5] F:..... V:..... T:.....	Item		
1/1/33	Clause 32.0 - Adjustment to the contract value - NOT APPLICABLE All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor [32.13] Where prices are submitted by the contractor or n/s subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the agreement and notwithstanding the fact that such prices may be used in an interim payment certificate there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the certificate of final completion, it shall be in writing 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 for loss of profit shall not be entertained [32.2] F:..... V:..... T:.....	N/A		
1/1/34	Clause 33.0 - Recovery of expense and loss F:..... V:..... T:.....	Item		
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1/1/35	Clause 34.0 - Final account and final payment F:..... V:..... T:.....	Item		
1/1/36	Clause 35.0 - Payment to other parties F:..... V:..... T:.....	Item		
	<u>Termination (A36 - A39)</u>			
1/1/37	Clause 36.0 - Termination by employer - contractor's default F:..... V:..... T:.....	Item		
1/1/38	Clause 37.0 - Termination by employer - loss and damage F:..... V:..... T:.....	Item		
1/1/39	Clause 38.0 - Termination by contractor - employer's default F:..... V:..... T:.....	Item		
1/1/40	Clause 39.0 - Termination - cessation of the works F:..... V:..... T:.....	Item		
	<u>Dispute (A40)</u>			
1/1/41	Clause 40.0 - Settlement of disputes F:..... V:..... T:.....	Item		
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	<u>Contract variables (A41 - A42)</u>			
1/1/42	Clause 41.0 - Post tender provisions The contractor is to complete and submit with his tender the JBCC Principal Building Agreement Contract Data CE F:..... V:..... T:.....	Item		
1/1/43	Clause 42.0 - Contractual agreement The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties F:..... V:..... T:.....	Item		
	<u>SECTION B: PRELIMINARIES</u>			
	<u>Definitions and interpretation (B1)</u>			
1/1/44	Clause 1.0 - Definitions and interpretation F:..... V:..... T:.....	Item		
	<u>Documents (B2)</u>			
1/1/45	Clause 2.1 - Checking of documents F:..... V:..... T:.....	Item		
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1/1/46	Clause 2.2 - Provisional bills of quantities F:..... V:..... T:.....	Item		
1/1/47	Clause 2.3 - Availability of construction documentation The budgetary allowances and selected subcontract amounts allocated for subsequent trades included in this agreement will be separately procured, based on multiple procurement of selected subcontractors during the construction period F:..... V:..... T:..... <u>Previous work and adjoining properties (B3)</u>	Item		
1/1/48	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item		
1/1/49	Clause 3.2 - Previous work - defects F:..... V:..... T:.....	Item		
1/1/50	Clause 3.3 - Inspection of adjoining properties F:..... V:..... T:..... <u>Samples, shop drawings and manufacturer's instructions (B4)</u>	Item		
1/1/51	Clause 4.1 - Samples of materials F:..... V:..... T:.....	Item		
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1/1/52	Clause 4.2 - Workmanship samples F:..... V:..... T:.....	Item		
1/1/53	Clause 4.3 - Shop drawings F:..... V:..... T:.....	Item		
1/1/54	Clause 4.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....	Item		
	<u>Deposits and fees (B5)</u>			
1/1/55	Clause 5.1 - Deposits and fees F:..... V:..... T:.....	Item		
	<u>Temporary services (B6)</u>			
1/1/56	Clause 6.1 - Water F:..... V:..... T:.....	Item		
1/1/57	Clause 6.2 - Electricity F:..... V:..... T:.....	Item		
1/1/58	Clause 6.3 - Telecommunication facilities F:..... V:..... T:.....	Item		
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1/1/59	Clause 6.4 - Ablution facilities F:..... V:..... T:..... <u>Prime cost amounts (B7)</u>	Item		
1/1/60	Clause 7.1 - Responsibility for prime cost amounts F:..... V:..... T:..... <u>Special attendance on n/s subcontractors (B8)</u>	Item		
1/1/61	Clause 8.1 - Special attendance F:..... V:..... T:..... <u>General (B9)</u>	Item		
1/1/62	Clause 9.1 - Protection of the works F:..... V:..... T:.....	Item		
1/1/63	Clause 9.2 - Protection/isolation of existing/ occupied works Certain areas of the sitewill be occupied during the construction period (see item 4 page 14) F:..... V:..... T:.....	Item		
1/1/64	Clause 9.3 - Security of the works F:..... V:..... T:.....	Item		
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1/1/65	Clause 9.4 - Notice before covering work F:..... V:..... T:.....	Item		
1/1/66	Clause 9.5 - Disturbance F:..... V:..... T:.....	Item		
1/1/67	Clause 9.6 - Environmental disturbance F:..... V:..... T:.....	Item		
1/1/68	Clause 9.7 - Works cleaning and clearing F:..... V:..... T:.....	Item		
1/1/69	Clause 9.8 - Vermin F:..... V:..... T:.....	Item		
1/1/70	Caluse 9.9 - Overhand work F:..... V:..... T:.....	Item		
	<u>Schedule of variables (B10)</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			
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	10.9 - Ablution facilities [7.5] Option A (by contractor) Yes Option B (by employer) No 10.10 - Protection of the works [9.1] 10.11 - Protection/isolation of existing/sectionally occupied works [9.2] Protection/isolation is required No 10.12 - Disturbance [9.5] 10.13 - Environmental disturbance [9.6] <u>SECTION C: SPECIFIC PRELIMINARIES</u> Any special items to meet the particular circumstances of a specific project are embodied in this section. Where required for an aspect of the works to be executed according to a design by a consulting engineer, a recital of the headings to the individual clauses of the JBCC Engineering General Conditions are included			
1/1/71	Black economic empowerment and training F:..... V:..... T:.....	Item		
1/1/72	Proprietary branded products F:..... V:..... T:.....	Item		
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	Brought Forward The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative		R	
1/1/73	Contract instructions F:..... V:..... T:..... Contract instructions issued on site are to be recorded in triplicate in a contract instruction book which is to be supplied and maintained on site by the contractor	Item		
1/1/74	Labour record F:..... V:..... T:..... At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and descriptions of tradesmen and labourers employed by him and all subcontractors on the works each day of that week	Item		
1/1/75	Plant record F:..... V:..... T:..... At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools used on the works each day of that week	Item		
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1/1/76	Guarantees F:..... V:..... T:..... Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor. The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement	Item		
1/1/77	Overtime F:..... V:..... T:..... Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer	Item		
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1/1/78	Co-operation of contractor for cost management F:..... V:..... T:..... It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The quantity surveyor undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor will attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures in regard to all subcontractors	Item		
1/1/79	Occupational Health and Safety Specification F:..... V:..... T:.....	Item		
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	The contractor shall comply with all the requirements set out in the Construction Regulations 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993). It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including extension of time or interest, due to such delay of payment. Provisions for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.			
1/1/80	Allow for the compulsory equipment and clothing, ie hats, safety shoes, safety clothing, safety glasses, safety masks, harnesses, etc F:..... V:..... T:.....	Item		
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1/1/81	Allow for all compulsory health and safety posters, boards, etc F:..... V:..... T:.....	Item		
1/1/82	Allow for all compulsory health and safety workshops, meetings, lectures, demonstrations, etc F:..... V:..... T:.....	Item		
1/1/83	Allow for all compulsory health and safety pamphlets, cards, paperwork, etc to each worker, consultant, public individual, etc coming onto the site F:..... V:..... T:.....	Item		
1/1/84	Allow for compulsory health and safety files that must be completed daily and must be handed to the employer on completion of the contract F:..... V:..... T:.....	Item		
1/1/85	Scope of Application as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
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1/1/86	Notification of Construction Work as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
1/1/87	Employer's responsibilities as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
1/1/88	Principal Contractor's responsibility as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
1/1/89	Supervision of construction work as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
1/1/90	Risk assessment as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
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1/1/91	Fall protection as per Act No 85 of 1993 F:..... V:..... T:.....	Item			
1/1/92	Structures Formwork and Support as per Act No 85 of 1993 F:..... V:..... T:.....	Item			
1/1/93	Excavation as per Act No 85 of 1993 F:..... V:..... T:.....	Item			
1/1/94	Demolition work as per Act No 85 of 1993 F:..... V:..... T:.....	Item			
1/1/95	Tunnelling as per Act No 85 of 1993 F:..... V:..... T:.....	Item			
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1/1/96	Scaffolding as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
1/1/97	Suspended platforms as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
1/1/98	Botswains chairs as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
1/1/99	Materials hoists as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
1/1/100	Batch plant as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
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1/1/101	Explosive powered tools as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
1/1/102	Cranes as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
1/1/103	Construction vehicles and mobile plant as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
1/1/104	Electrical installations and machinery on construction sites as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
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1/1/105	Use and temporary storage of flammable liquids on construction sites as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
1/1/106	Water environments as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
1/1/107	Housekeeping on construction sites as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
1/1/108	Stacking and storage on construction sites as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
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1/1/109	Fire precautions as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
1/1/110	Construction welfare as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
1/1/111	Approved inspection Authorities as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
1/1/112	Offences and penalties as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
1/1/113	Repeal of regulations as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1 Preliminaries TECHVOLUTION ENGINEERS			

AGRICULTURAL RESEARCH COUNCIL

REPAIRS AND REPLACEMENT OF ROOF AT 600 BELVEDERE STREET,

ARCADIA, TSHWANE 1

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	Brought Forward		R	
1/1/114	Short title as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
1/1/115	Obligatory Sub-contracting and Training F:..... V:..... T:..... The Contractor shall sub-contract 40% of the work to Domestic Sub-contractors as listed in the Schedule of Sub-Contractors in the Returnable Schedules The Principal Agent and the Contractor shall at all times make sure that the work complies with the relevant specifications, standards and norms as contained in this tender. The Principal Agent and the Contractor shall provide for the necessary skills transfer and assistance to complete the sub-contracted section of the works. The Principal Agent and the Contractor shall provide the necessary documentation to the Domestic Sub-Contractor for upgrading of the rating by CIDB. BEE Sub-Contractors must be 100% black owned and have offices in Mpumalanga Province	Item		
1/1/116	Expanded Public Works Programme F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1 Preliminaries TECHVOLUTION ENGINEERS			

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Brought Forward				R	
	The Contractor shall study the guidelines for the implementation of labour-intensive infrastructure projects under the Expanded Public Works Programme (EPWP) attached to this document. The Contractor shall take note of the requirements and inform all selected and or other sub-contractors, as no claim afterwards will be entertained				
1/1/117	C11.1 Local and targeted labour F:..... V:..... T:.....	Item			
1/1/118	Allow for regular submission of proof of employment of local skilled and unskilled labour to Employer's representative F:..... V:..... T:.....	Item			
1/1/119	Training allowance paid to targeted labour in respect of formal training. F:..... V:..... T:.....	Item			
1/1/120	Extra over for the administration of payment of training allowances to targeted labour F:..... V:..... T:.....	Item			
Carried Forward				R	
Section No. 1 PRELIMINARIES Bill No. 1 Preliminaries TECHVOLUTION ENGINEERS					

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	Brought Forward			R	
1/1/121	Transport and accommodation of workers for training where it is not possible to undertake the training in close proximity to the site F:..... V:..... T:.....				
		Item			
1/1/122	C12: Contract drawings F:..... V:..... T:..... The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent				
		Item			
1/1/123	C13: General preambles F:..... V:..... T:.....				
		Item			
1/1/124	C14: Trade names F:..... V:..... T:.....				
		Item			
	Carried Forward			R	
	Section No. 1 PRELIMINARIES Bill No. 1 Preliminaries TECHVOLUTION ENGINEERS				

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Brought Forward			R	
	Wherever a trade name form any product has been described in the bills of quantities / lump sum document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for			
1/1/125	C16: SANS 1921-6: HIV/AIDS Awareness read in conjunction with the Associated Specification Data F:..... V:..... T:.....	Item		
1/1/126	General requirements (Clause 4.1) F:..... V:..... T:.....	Item		
1/1/127	HIV/AIDS awareness programme (Clause 4.2) F:..... V:..... T:.....	Item		
Carried Forward			R	
Section No. 1 PRELIMINARIES Bill No. 1 Preliminaries TECHVOLUTION ENGINEERS				

1/1/128	Brought Forward Reporting (Clause 4.3) F:..... V:..... T:..... <u>SUMMARY OF CATEGORIES</u> Category : Fixed R..... Category : Value R..... Category : Time R.....	Item	R	
	Carried to Final Summary Section No. 1 PRELIMINARIES Bill No. 1 Preliminaries TECHVOLUTION ENGINEERS		R	

AGRICULTURAL RESEARCH COUNCIL

REPAIRS AND REPLACEMENT OF ROOF AT 600 BELVEDERE STREET,
ARCADIA, TSHWANE 2

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 1</u>			
	<u>ALTERATIONS</u>			
	<u>TEMPORARY BARRIERS, SCREENS, ETC</u>			
	<u>Temporary barriers, screens, etc including removal</u>			
2/1/1	Dust screen 2,1mm high between concrete floor and ceiling formed of suitable timber framing with micron polyethylene sheeting stapled on including corners, ends, etc	m	10	
	<u>REMOVAL OF EXISTING WORK</u>			
	<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>			
2/1/2	Clay tiles roof covering and timber purlins (sloping)	m2	902	
2/1/3	Fibre cement roof covering and timber purlins (flat)	m2	312	
2/1/4	Gypsum plasterboard ceilings including cornices, timber bandering, etc	m2	1,059	
	<u>Taking up and removing vinyl floor coverings, carpeting, etc</u>			
2/1/5	Vinyl tile floor covering including preparing screed for new vinyl floor covering	m2		
	Carried Forward			
	Section No. 2 BUILDERS WORK - ROOF REPAIRS AND REPLACEMENT Bill No. 1 Alterations TECHVOLUTION ENGINEERS		R	

AGRICULTURAL RESEARCH COUNCIL

REPAIRS AND REPLACEMENT OF ROOF AT 600 BELVEDERE STREET,
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1

	Brought Forward			R	
	<u>Carefully remove and later re-install in same positions</u>				
2/1/6	Roof air vents including support structures and other accessories	No	12		
	<u>PREPARATORY WORK TO EXISTING SURFACES</u>				
2/1/7	Scrapping off existing paintwork and making good internal plaster to receive new paint	m2	354		
	<u>ALLOWANCES</u>				
	<u>Repairing Existing Roof Structure</u>				
2/1/8	Allow R40,000 (Forty Thousand Rand) for the inspection, documenting and repair of the existing roof structure			SUM	
	<u>Removal and re-installation of roof accessories</u>				
2/1/9	Allow R12,500 (Twelve Thousand Five Hundred Rand) for the careful removal and re-installation of all roof accessories (except the roof air vents 12 in No. elsewhere measured) in line with manufacturer's recommendations			SUM	
	<u>Repairing/Upgrading Electrical Installations</u>				
2/1/10	Allow R300,000 (Three Hundred Thousand Rand) for electrical investigation, checking for compliance of the entire building, upgrades, repairs, re-wiring, insulation of roof electrical components and issuance of an Electrical Certificate of Compliance			SUM	
	Carried Forward to Summary of Section No. 2			R	
	Section No. 2				
	BUILDERS WORK - ROOF REPAIRS AND REPLACEMENT				
	Bill No. 1				
	Alterations				
	TECHVOLUTION ENGINEERS				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 2</u>			
	<u>WATERPROOFING</u>			
	<u>WATERPROOFING TO ROOFS, BASEMENTS, ETC</u>			
	<u>4mm Derbigum CG2 underlay mechanically fastened with selected nails and 38mm diameter roofing washers at 8/m² and one layer Derbigum SP4, with 75mm side laps and 100mm end laps, sealed to underlay by `torchfusion`, to be installed by an Approved Derbigum Contractor under a ten year guarantee</u>			
2/2/1	On roofs	m2	316	
	<u>PROTECTIVE ROOFING PAINT</u>			
	<u>Two coats bituminous aluminium paint</u>			
2/2/2	On waterproofing to roofs	m2	312	
	<u>JOINT SEALANTS, ETC</u>			
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
2/2/3	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	72	
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2 BUILDERS WORK - ROOF REPAIRS AND REPLACEME Bill No. 2 Waterproofing TECHVOLUTION ENGINEERS			

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REPAIRS AND REPLACEMENT OF ROOF AT 600 BELVEDERE STREET,
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 3</u>			
	<u>ROOF COVERINGS ETC</u>			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes			
	<u>TILES</u>			
	<u>Harveytile Elite Terracotta or equally approved roof tiles size 1675mm x 397mm fixed at a pitch of 23° to be installed in accordance with the manufacturers guidelines, including Resin-coated Polybase and Polymat (Glass reinforced Plastic) on 18mm plywood, on 200mm thermal insulation on a continuous water proofing membrane, all nailed to 38 x 38mm sawn softwood battens at 300mm centres</u>			
2/3/1	Roof covering with 30 degrees pitch	m2	902	
2/3/2	Soffit cladding to overhangs etc.	m2	2	
2/3/3	Extra on roof covering for double course at eaves including 38 x 38mm sawn softwood tilting fillet.	m	20	
2/3/4	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour	m	122	
2/3/5	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour	m	47	
2/3/6	Purpose made tile to 3-way intersection of ridge with hips in line with manufacturer's instructions	No	6	
	Carried Forward			
	Section No. 2 BUILDERS WORK - ROOF REPAIRS AND REPLACEMENT Bill No. 3 Roof Coverings TECHVOLUTION ENGINEERS		R	

AGRICULTURAL RESEARCH COUNCIL

REPAIRS AND REPLACEMENT OF ROOF AT 600 BELVEDERE STREET,
ARCADIA, TSHWANE 2

3

Brought Forward				R
<u>PROFILED FIBRE-CEMENT SHEETING AND ACCESSORIES</u>				
<u>"Everite Big six" sheeting with "Colorbrite" finish on one side fixed to timber/steel purlins or rails and accessories with "Colorbrite" finish on one side (to match main roof sheeting), with and including Resin-coated Polybase and Polymat (Glass reinforced Plastic) on 18mm plywood, on 200mm thermal insulation, on a continuous water proofing membrane on 12mm plywood on 400 c/c timber</u>				
2/3/7	Roof covering with pitch not exceeding 25 degrees	m2	312	
2/3/8	Side apron flashing	m	52	
2/3/9	End apron flashing	m	12	
2/3/10	Plain fixed angle ridge capping	m	108	
<u>Global Roofing Solutions Terracotta</u>				
2/3/11	231mm x 2900mm long valley flashing (Code: MF012), fixed in accordance with manufacturer's specifications.	m	22	
2/3/12	231mm x 2900mm long hip flashing (Code: MF012), fixed in accordance with	m	42	
<u>ROOF AND WALL INSULATION</u>				
Carried Forward				R
Section No. 2 BUILDERS WORK - ROOF REPAIRS AND REPLACEMENT Bill No. 3 Roof Coverings TECHVOLUTION ENGINEERS				

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3

Brought Forward			R
	<u>Knauf Insulation 200mm thick Rafter Roll semi-rigid non-combustible glass mineral wool thermal insulation (R-value: 5.34m².K/W), complying with SANS 1381-1:2007 and SANS 428:2012, laid friction fitted between rafters in accordance with manufacturer's recommendations.</u>		
2/3/13	Insulation laid taut over purlins (at approximately 100mm centres) and fixed concurrent with roof covering including prescribed straining wires	m2	316
	<u>Coverland</u>		
2/3/14	3-ply undertile membrane (Code: 3ply) with joints lapped 150mm, fixed over rafters	m2	908
	<u>PROTECTIVE COVERING</u>		
	<u>Protection and waterproofing of roof air vents to be directed by the Engineer</u>		
2/3/15	Protection and waterproofing of roof air vents in line the manufacturer's specifications	No	12
Carried Forward to Summary of Section No. 2			R
Section No. 2 BUILDERS WORK - ROOF REPAIRS AND REPLACEMENT Bill No. 3 Roof Coverings TECHVOLUTION ENGINEERS			

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REPAIRS AND REPLACEMENT OF ROOF AT 600 BELVEDERE STREET,

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4

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u> <u>BILL NO. 4</u> <u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u> NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 129 for CPAP formula purposes <u>SUPPLEMENTARY PREAMBLES</u> <u>Descriptions:</u> Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere <u>CEILINGS ETC</u> <u>"Aerolite" insulation</u> 2/4/1 75mm Insulation closely fitted and laid on top of branderling between roof timbers etc m2 1,060 <u>NAILED UP CEILINGS</u>			
	Carried Forward Section No. 2 BUILDERS WORK - ROOF REPAIRS AND REPLACEMENT Bill No. 4 Ceilings, Partitions and Access Flooring TECHVOLUTION ENGINEERS		R	

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REPAIRS AND REPLACEMENT OF ROOF AT 600 BELVEDERE STREET,

ARCADIA, TSHWANE 2

4

Brought Forward			R
	<u>6,4mm "Rhino" gypsum plasterboard with H-type pressed steel jointing strips</u>		
2/4/2	Ceilings including 38 x 38mm sawn softwood brander at 400mm centres	m2	1,060
2/4/3	Sloping ceilings including 38 x 38mm sawn softwood brander at 400mm centres	m2	
2/4/4	Extra over ceiling for 650 x 650mm trap door of 38 x 50mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	6
	<u>"Rhino" gypsum plasterboard cornices</u>		
2/4/5	75mm Coved cornices	m	723
Carried Forward to Summary of Section No. 2			R
Section No. 2			
BUILDERS WORK - ROOF REPAIRS AND REPLACEMENT			
Bill No. 4			
Ceilings, Partitions and Access Flooring			
TECHVOLUTION ENGINEERS			

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5

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u> <u>BILL NO. 5</u> <u>PLUMBING AND DRAINAGE (PROVISIONAL)</u> Tenderers are advised to study the Model Preambles for Trades before pricing this Bill <u>SUPPLEMENTARY PREAMBLES</u> <u>General</u> Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc. and to steel pipes (adaptors for connections to copper pipes, etc. are given separately) Descriptions of WC pans, slop hoppers, etc. shall be deemed to include for joints to soil pipes (pan connectors are separately measured) <u>As-built drawings</u> Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere) <u>RAINWATER DISPOSAL</u>			
	Carried Forward Section No. 2 BUILDERS WORK - ROOF REPAIRS AND REPLACEMENT Bill No. 5 Plumbing and Drainage TECHVOLUTION ENGINEERS		R	

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5

Brought Forward				R
<u>RHEINZINK®-Gutter System consisting of 280mm (127mm diameter) halfround gutter with Leafguard, fixed with Snap-Lock bracket system. 80mm diameter downpipes fixed to façade with wrap around bracket. All necessary accessories like plug-in outlets, gutter corners, endcaps, expansion joints etc. have to be RHEINZINK® gutter system components.</u>				
2/5/1	Eaves gutters including all gutter flashings	m	215	
2/5/2	Extra over eaves gutter for stopped end	No	2	
2/5/3	Extra over eaves gutter for angle	No	8	
2/5/4	Extra over eaves gutter for outlet for 75 x 75mm pipe	No	10	
2/5/5	75 x 75mm rainwater pipes	m	60	
2/5/6	Extra over rainwater pipe for bend	No	10	
2/5/7	Extra over rainwater pipe for shoe	No	10	
2/5/8	Extra over rainwater pipe for eaves or plinth offset 600mm projection	No	10	
Carried Forward to Summary of Section No. 2				R
Section No. 2 BUILDERS WORK - ROOF REPAIRS AND REPLACEMENT Bill No. 5 Plumbing and Drainage TECHVOLUTION ENGINEERS				

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6

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 6</u>			
	<u>PAINTWORK</u>			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 152 for CPAP formula purposes			
	<u>PAINTWORK ETC TO PREVIOUSLY PAINTED WORK</u>			
	<u>ON FLOATED PLASTER</u>			
	<u>One coat bonding liquid and two coats interior quality PVA emulsion paint</u>			
2/6/1	On internal walls	m2	354	
	<u>ON NEW SURFACES</u>			
	<u>ON PLASTERBOARD</u>			
	<u>One coat primer and two coats interior quality PVA emulsion paint</u>			
2/6/2	On ceilings and cornices	m2	1,060	
	Carried Forward to Summary of Section No. 2			
	Section No. 2			
	BUILDERS WORK - ROOF REPAIRS AND REPLACEMENT			
	Bill No. 6			
	Paintwork			
	TECHVOLUTION ENGINEERS			
			R	

AGRICULTURAL RESEARCH COUNCIL

REPAIRS AND REPLACEMENT OF ROOF AT 600 BELVEDERE STREET,
ARCADIA, TSHWANE 3

1

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 1</u>			
	<u>PROVISIONAL SUMS</u>			
	<u>NOTES:</u>			
	1. The Contractor's attention is drawn specifically to the Principal Building Agreement Clause 20.0 (Nominated Sub-Contractors), Clause 21.0 (Selected Sub-Contractors) and Clause 22 (Work by Others) and to the related Clauses in Section 1, Bill No. 1 - Preliminaries			
	2. The Contractor's attention is drawn also to the definition of attendance on Nominated or Selected Sub-Contractors and of fuel, power and water for commissioning of mechanical and other specialised installations given in the JBCC Preliminaries			
	3. Where special attendance includes the provision of hoisting facilities for a Sub-Contractor then the Contractor shall:-			
	* Ensure that the capacities of his hoisting equipment are sufficient to deal with the masses and the quantities of the items to be hoisted, * Schedule the times of availability of the hoisting equipment for each Sub-Contractor, * Provide all necessary personnel to operate the hoisting equipment,			
	all to enable the Sub-Contractor to execute the hoisting or lowering of his material, etc. using the facilities provided by the Contractor			
	Carried Forward		R	
	Section No. 3 PROVISIONAL SUMS Bill No. 1 Provisional Sums TECHVOLUTION ENGINEERS			



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