

UNIVERSITY OF JOHANNESBURG
DFC RESIDENCES WATER SUPPLY PIPES
BILL OF QUANTITIES

Item No	Quantity	Rate	Amount
<u>SECTION 1 : PRELIMINARIES AND GENERAL</u>			
<u>BILL NO. 1 : PRELIMINARIES</u>			
<u>BUILDING AGREEMENT AND PRELIMINARIES</u>			
<p>The JBCC Series 2000 Minor Works Agreement (March 2014 edition 5.1) prepared by the Joint Building Contract Committee shall be the applicable building agreement, amended as hereinafter described</p>			
<p>The ASQS 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 abovementioned documents</p>			
<p>Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"</p>			
<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>			
Carried Forward			
SECTION 1: PRELIMINARIES AND GENERAL Preliminaries and General			R

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Item No	Quantity	Rate	Amount
<u>SECTION NO.2: BUILDING WORKS</u>			
<u>BILL NO. 1: ALTERATIONS</u>			
<u>PREAMBLES</u>			
<p>For preambles see "Model Preambles for Trades (2017 Edition)" and applicable supplementary preambles as specified in the Trades. The said Model and Supplementary Preambles apply to all work described in this document. Tenderers are therefor referred to these documents for the full meaning and intention of all descriptions as no claims of any kind whatsoever will be entertained in this regard.</p> <p>Tenderers are however also referred to the drawings and additional specifications. If same are in conflict with the above, the drawings and specifications shall take preference.</p>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>View site</u>			
<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 contained in the buildings or portions of the buildings to be demolished. 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>			
<u>General</u>			
<p>Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent</p> <p>Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site</p>			
Carried Forward			R
SECTION 2: BUILDING WORKS			
Alterations			

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Item No	Quantity	Rate	Amount
<u>SECTION NO.2: BUILDING WORKS</u>			
<u>BILL NO.2: PLUMBING AND DRAINAGE</u>			
<u>PREAMBLES</u>			
<p>For preambles see "Model Preambles for Trades (2017 Edition)" and applicable supplementary preambles as specified in the Trades. The said Model and Supplementary Preambles apply to all work described in this document. Tenderers are therefor referred to these documents for the full meaning and intention of all descriptions as no claims of any kind whatsoever will be entertained in this regard.</p> <p>Tenderers are however also referred to the drawings and additional specifications. If same are in conflict with the above, the drawings and specifications shall take preference.</p>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Wire gratings</u>			
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings			
<u>Stormwater channels</u>			
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site			
<u>Sealing of edges</u>			
Outer edges of fittings are to be sealed against adjacent surfaces with approved silicone			
<u>High density polyethylene (HDPE) pipes and fittings</u>			
Unless otherwise stated all pipes shall be of the type and class specified by the Engineer. HDPE pipes and compression fittings shall be jointed and sealed in accordance with the Engineer's specifications.			
Carried Forward			R
SECTION 2: BUILDING WORKS Plumbing and Drainage			

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<p style="text-align: right;">Brought Forward</p> <p><u>Reducing fittings</u></p> <p>Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained</p> <p><u>Fixing of pipes</u></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level.</p> <p>All straight couplers and fittings other than those specifically measured as extra over shall be deemed included in the pipe rates.</p> <p><u>Disinfection of stainless steel pipework</u></p> <p>Stainless steel pipework is to be disinfected at completion in accordance with SABS 1200L as well as the manufacturer and the Engineer's specifications and guidelines.</p> <p><u>Laying, backfilling, bedding, etc of pipes</u></p> <p>Pipes shall be laid and bedded in accordance with manufacturer and Engineer's instructions and trenches shall be carefully backfilled.</p>		R	
<p style="text-align: right;">Carried Forward</p> <p>SECTION 2: BUILDING WORKS Plumbing and Drainage</p>		R	

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<p style="text-align: right;">Brought Forward</p> <p>Where no manufacturers' instructions exist, pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following: SABS 1200L : Medium-pressure pipelines SABS 1200LD : Sewers SABS 1200LE: Stormwater drainage</p> <p>Pipe trenches, etc shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB : Earthworks (Pipe trenches)</p> <p>Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200LB : Bedding (Pipes)</p> <p>Unless otherwise described bedding of rigid pipes shall be Class B bedding</p> <p><u>General</u></p> <p>The quantities are provisional and will be re-measured upon completion of the works. The Contractor shall not use these quantities for ordering of materials. The Contractor must immediately notify the Quantity Surveyor if discrepancies are found between the quantities and/or descriptions in these Bills of Quantities and the Contractor's quantities measured from construction drawings and specifications.</p> <p>Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)</p> <p>Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends</p> <p>Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site</p>		R	
<p style="text-align: right;">Carried Forward</p> <p>SECTION 2: BUILDING WORKS Plumbing and Drainage</p>		R	

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Brought Forward			R
<u>As-built drawings</u>			
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.			
<u>SANITARY FITTINGS</u>			
<u>WATER SUPPLIES</u>			
<u>Copper pipes</u>			
1	Supply and install 50mm pipe	m	450
2	Supply and install 75mm pipe	m	145
3	Supply and install 110mm pipe	m	120
<u>Extra over copper pipes</u>			
<u>50mm diameter pipe</u>			
4	Fittings	No	10
5	Reducer	No	10
6	Elbow	No	10
7	Tee	No	10
8	Reducing tee	No	10
<u>75mm diameter pipe</u>			
9	Fittings	No	5
10	Reducer	No	5
11	Elbow	No	5
12	Tee	No	5
Carried Forward			R
SECTION 2: BUILDING WORKS Plumbing and Drainage			

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					R
	Brought Forward				
13	Reducing tee	No	5		
	<u>110mm diameter pipe</u>				
14	Fittings	No	5		
15	Reducer	No	5		
16	Elbow	No	5		
17	Tee	No	5		
18	Reducing tee	No	5		
	<u>TRAPS ETC</u>				
	<u>Rubber</u>				
19	Apply rubber latch and linings to tanks	No	5		
	<u>TAPS, VALVES, ETC</u>				
20	Supply and install 28mm ball valve	No	8		
21	Supply and install 50mm gate valve	No	8		
22	Supply and install 75mm gate valve	No	6		
23	Supply and install 110mm gate valve	No	6		
24	Supply and install 50mm holderbat	No	140		
	<u>TESTING</u>				
25	Allow for testing of system and issue of CoC		Item		
	<u>BUDGETARY ALLOWANCE</u>				
26	Allow for plumbing and drainage, to be measured and priced in accordance with this Bill of Quantities and omitted in part or whole as instructed by Principal Agent		Item		10,000.00
	Carried Forward to Summary of Section No. 2				
	SECTION 2: BUILDING WORKS				
	Plumbing and Drainage				

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SECTION SUMMARY - SECTION 2: BUILDING WORKS		Page No	Amount	
1	Alterations	12		
2	Plumbing and Drainage	17		
Carried to Final Summary			R	
SECTION 2: BUILDING WORKS				

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Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	SECTION 1: PRELIMINARIES AND GENERAL	10	
2	SECTION 2: BUILDING WORKS	18	
	Sub Total		R
	<u>CONTINGENCY</u>		
	Allow a contingency amount at 10% of the contract amount to be used as directed by the Principal Agent.	%	
	Sub-total		R
	Add: Value Added Tax (VAT)		R
	Carried to Form of Tender (Including VAT)		R