

Item No		Quantity	Rate	Amount
	<p>SECTION 1</p> <p>BILL NO. 1</p> <p>PRELIMINARIES</p> <p>BUILDING AGREEMENT AND PRELIMINARIES</p> <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 ASAQS Preliminaries (November 2007 edition) published by the Association of South African Quantity Surveyors for use with the said JBCC Principal Building Agreement shall be deemed to be incorporated in these bills of quantities</p> <p>Contractors are referred to the abovementioned documents for the full intent and meaning of each clause thereof</p> <p>These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the abovementioned documents</p> <p>Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"</p> <p>PREAMBLES FOR TRADES</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 bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p> <p>Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles</p>			
	<p style="text-align: right;">Carried Forward to Trade Summary</p> <p>Section 1 - Preliminaries</p> <p>Bill No. 1</p> <p>Preliminaries</p> <p>John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg</p>		R	

Bill No. 1

Preliminaries

TRADE SUMMARY

Total Brought Forward from Page No

**Page
No**

1

2

Amount

Carried Forward to Final Summary

Section 1 - Preliminaries
Bill No. 1
Preliminaries
John Orr LAB 6400K Refurbishment and additions
for the University of Johannesburg

R

Item No		Quantity	Rate	Amount
	<p>SECTION 2</p> <p>BILL NO 1</p> <p>ALTERATION</p> <p>-----</p> <p>PREAMBLES</p> <p>The General 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 General Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p> <p>SUPPLEMENTARY PREAMBLES</p> <p>View site</p> <p>Before submitting his tender the contractor 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> <p>Explosives</p> <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated</p>			
	<p style="text-align: right;">Carried Forward to Trade Summary</p> <p>Section 2 - Building Works Bill No. 1 Alteration John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg</p>		R	

Item No		Quantity	Rate	Amount
	<p>General</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 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>Water supply pipes and other piping 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>Doors, fanlights, fittings, frames, linings, etc which are to be re-used 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 easing, 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 and making good floor and wall finishes to match existing</p> <p>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</p> <p>Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary</p>			
	Carried Forward to Trade Summary		R	
	<p>Section 2 - Building Works</p> <p>Bill No. 1</p> <p>Alteration</p> <p>John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg</p>			

Item No		Quantity	Rate	Amount
	<p>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, fittings, etc)</p> <p>TEMPORARY BARRIERS, SCREENS, ETC</p> <p>-----</p> <p>Temporary barriers, screens,etc</p> <p>Dust screen between concrete floor and ceiling, of suitable timber framing with 375 micron polyethylene sheeting stapled on one side, including corners, ends, etc</p> <p>REMOVAL OF EXISTING WORK</p> <p>Taking down and removing ceilings, partitions, etc:</p>			
1	Drywall partitions 3134mm high including glazed borrowed lights, and wall tiles etc	m	21	
	Breaking down and removing brickwork etc			
2	Half brick walls	m2	34	
	Taking out and removing doors, windows, etc, including thresholds, sills, etc			
3	Timber single door and frame not exceeding 2,5m²	No	5	
4	Timber double door and frame exceeding 2,5m² and not exceeding 5m²	No	1	
	Taking out and removing sundry joinery work, fittings, etc			
5	Raised platform not exceeding 2m² including disconnecting any electrical cables and fittings and making safe	No	1	
	Carried Forward to Trade Summary			R
	Section 2 - Building Works			
	Bill No. 1			
	Alteration			
	John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg			

Item No			Quantity	Rate	Amount
	Taking out and removing piping, sanitary fittings, etc, including cutting off as necessary, disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)				
6	Vitreous china wash hand basin, including short lengths of piping, etc	No	5		
7	Vitreous china WC pan with cistern, including short lengths of piping, etc	No	4		
8	Existing lab sinks	No	2		
	Carefully taking out and handing over to employer, sanitary fittings, etc, and making good floor and wall finishes (making good tiling and paintwork elsewhere)				
9	Wall mounted hand towel dispenser	No	3		
10	Sanitary bin	No	5		
11	Toilet paper holder	No	4		
12	Soap dispenser	No	4		
13	Wall mounted mirror 5600 x 2000mm high	No	1		
14	Ditto but 7500 x 2000mm high	No	1		
	Taking up and removing floor coverings, etc from screeded floors: (New floor finishes elsewhere measured)				
15	Vinyl tile floor covering	m2	213		
	Hacking up/off and removing ceramic tiles including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc: (New floor finishes elsewhere measured)				
16	Tiles to floors	m2	34		
17	Ditto but wall tiles	m2	31		
Carried Forward to Trade Summary				R	
Section 2 - Building Works Bill No. 1 Alteration John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg					

Item No			Quantity	Rate	Amount
	Carefully taking out and handing over to Employer sundry joinery work, joinery fittings, etc:				
18	Timber floor cupboard 7079 x 623 x 894mm high	No	1		
	MAKING GOOD OF FINISHES, ETC				
	Making good internal/external cement plaster:				
19	Walls in patches	m2	13		
	BUILDING UP OPENINGS				
	Drywall partition, including all necessary studs, etc in closing up openings, including making good all around flush with existing work and aluminium strip skirting on both sides: (Paintwork elsewhere measured)				
20	Opening 813 x 2032mm high in 90mm drywall partition	No	1		
	Carried Forward to Trade Summary				
	Section 2 - Building Works				
	Bill No. 1				
	Alteration				
	John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg				

Bill No. 1

Alteration

TRADE SUMMARY

Total Brought Forward from Page No

**Page
No**

4

5

6

7

8

Amount

Carried Forward to Section Summary

Section 2 - Building Works
Bill No. 1
Alteration
John Orr LAB 6400K Refurbishment and additions
for the University of Johannesburg

R

Item No		Quantity	Rate	Amount
	<p>SECTION 2</p> <p>BILL NO 2</p> <p>MASONRY</p> <p>-----</p> <p>PREAMBLES</p> <p>The General 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 General Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p> <p>SUPPLEMENTARY PREAMBLES</p> <p>BRICKWORK</p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p>Bagged and sealed walls</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>Pointing</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>Carried Forward to Trade Summary</p> <p>Section 2 - Building Works</p> <p>Bill No. 2</p> <p>Masonry</p> <p>John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg</p>		R	

Bill No. 2

Masonry

TRADE SUMMARY

Total Brought Forward from Page No

**Page
No**

10

11

Amount

Carried Forward to Section Summary

Section 2 - Building Works
Bill No. 2
Masonry
John Orr LAB 6400K Refurbishment and additions
for the University of Johannesburg

R

Item No		Quantity	Rate	Amount
	<p>SECTION 2</p> <p>BILL NO 3</p> <p>CARPENTRY AND JOINERY</p> <p>-----</p> <p>PREAMBLES</p> <p>The General 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 General Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p> <p>SUPPLEMENTARY PREAMBLES</p> <p>Fixing:</p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given separately elsewhere</p> <p>Joinery:</p> <p>Descriptions of frames shall be deemed to include frames, transomes, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts</p>			
	<p style="text-align: right;">Carried Forward to Trade Summary</p> <p>Section 2 - Building Works Bill No. 3 Carpentry and Joinery John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg</p>		R	

Item No		Quantity	Rate	Amount
	<p>Particle board</p> <p>All particle board shall comply with SANS 50312 having the required marking as per SANS 50312/EN 312</p> <p>Decorative thermosetting plastic laminate covering:</p> <p>Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish</p> <p>Sizes:</p> <p>Sizes are nominal and the Contractor shall make allowance in his prices for minor variances in stated finished sizes of timber doors, door members, door frames, architraves, etc</p> <p>Prices</p> <p>Prices for all joinery work are to include for general framing, housing and notching, arris rounded angles, glueing, blocking, planting on, screwing, adhesives, dowels, pellets, cross tongues, screws and nails and setting up complete and also for all square cutting and waste. Tops shall be secured with metal or hardwood buttons.</p> <p>-----</p> <p>JOINERY SUNDRIES</p> <p>Supply and install:</p>			
1	<p>4000mm long x 740mm deep x 920mm high workbenches with stainless steel frame or equal approved and legs. Workbench to have granite tops with basins and taps at the end suitably connected to existing plumbing including cutting out holes for basins and taps(Basins and plumbing elsewhere measured)</p>	No	9	
	<p>Carried Forward to Trade Summary</p> <p>Section 2 - Building Works</p> <p>Bill No. 3</p> <p>Carpentry and Joinery</p> <p>John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg</p>		R	

Item No		Quantity	Rate	Amount
2	2400mm long x 740mm deep x 920mm high workbenches with stainless steel frame or equal approved and legs. Workbench to have granite tops with basins and taps at the end suitably connected to existing plumbing including cutting out holes for basins and taps ,Ditto	No	2	
Carried Forward to Trade Summary				R
Section 2 - Building Works				
Bill No. 3				
Carpentry and Joinery				
John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg				

Bill No. 3

Carpentry and Joinery

TRADE SUMMARY

Total Brought Forward from Page No

**Page
No**

13

14

15

Amount

Carried Forward to Section Summary

Section 2 - Building Works
Bill No. 3
Carpentry and Joinery
John Orr LAB 6400K Refurbishment and additions
for the University of Johannesburg

R

Item No		Quantity	Rate	Amount
	<p>Bulkheads</p> <p>Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. Their purpose is either to conceal services or to create architectural features</p> <p>Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions are more than 900mm such portions of ceilings have been included in the appropriate general items of ceilings</p> <p>Unless otherwise described bulkheads shall be deemed to be horizontal along the length</p> <p>Steel components</p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121</p> <p>User note</p> <p><i>Circular bulkheads shall be given separately</i></p> <p>PARTITIONS ETC</p> <p>User note</p> <p><i>Selected examples of typical preambles and items with trade names are provided to show possible ways of describing such items. Users must adapt these examples to suit their particular circumstances</i></p> <p>SUPPLEMENTARY PREAMBLES</p> <p>"GypRoc Drywall" partition systems</p> <p>Partitions consisting of 63,5mm "Ultra Drywall" steel studs inserted at 600mm centres into 63,5mm "Ultrasteel Drywall" steel track at top and bottom clad on both sides as described, studs as necessary at abutments, ends, etc. Boards shall be fixed in strict accordance with the manufacturer's instructions and all joints shall be taped and jointed</p>			
	<p style="text-align: right;">Carried Forward to Trade Summary</p> <p>Section 2 - Building Works Bill No. 4 Ceilings, Partitions and Access Flooring John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg</p>		R	

Bill No. 4

Ceilings, Partitions and Access Flooring

TRADE SUMMARY

Total Brought Forward from Page No

**Page
No**

17

18

19

Amount

Carried Forward to Section Summary

Section 2 - Building Works
Bill No. 4
Ceilings, Partitions and Access Flooring
John Orr LAB 6400K Refurbishment and additions
for the University of Johannesburg

R

Item No		Quantity	Rate	Amount
	SECTION 2			
	BILL NO 5			
	FLOOR COVERINGS, WALL LININGS, ETC			

	PREAMBLES			
	<p>The Model Preambles for Trades (2017 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said Model Preambles</p>			
	SUPPLEMENTARY PREAMBLES			
	Fixing:			
	<p>Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc</p> <p>-----</p>			
	FLOOR COVERINGS			
	Vinyl sheeting or equal approved (Allow prime cost of R250/m2) delivered to site			
1	On concrete floors	m2	204	
	500 x 500mm Belgotex Carpet tiles (Allow prime cost of R350/m2)			
2	On concrete floors	m2	9	
	Aluminium dividing strips:			
3	Approved flat section dividing strips between carpets tiles and vinyl sheeting	m	15	
	Carried Forward to Section Summary			
	Section 2 - Building Works			
	Bill No. 5			
	Floor Coverings and Access Flooring			
	John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg			
			R	

Item No		Quantity	Rate	Amount
	<p>SECTION 2</p> <p>BILL NO 6</p> <p>PLUMBING AND DRAINAGE</p> <p>-----</p> <p>PREAMBLES</p> <p>The General 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 General Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p> <p>SUPPLEMENTARY PREAMBLES</p> <p>Sealing of edges:</p> <p>Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved mildew resistant silicone sealant and prices must include therefor</p> <p>uPVC pipes and fittings:</p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings</p>			
	<p>Carried Forward to Trade Summary</p> <p>Section 2 - Building Works</p> <p>Bill No. 6</p> <p>Plumbing and drainage</p> <p>John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg</p>		R	

Item No		Quantity	Rate	Amount
	<p>uPVC pressure pipes and fittings:</p> <p>Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p> <p>Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints</p> <p>High density polyethylene (HDPE) pipes and fittings:</p> <p>Pipes shall be type IV and of the class specified with "Plasson" or "Alprene" compression fittings</p> <p>Copper pipes:</p> <p>Pipes shall be hard drawn and half-hard "Maksal" pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground</p> <p>Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition</p> <p>Reducing fittings:</p> <p>Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm, 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. In the case of pipes with diameters exceeding 60mm, all sizes are given and no claims for extra bushes, reducers, etc will be entertained</p>			
	<p style="text-align: right;">Carried Forward to Trade Summary</p> <p>Section 2 - Building Works Bill No. 6 Plumbing and drainage John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg</p>		R	

Item No			Quantity	Rate	Amount
	SANITARY PLUMBING				
	uPVC soil and vent pipes:				
6	50mm Pipes chased on u/s of concrete floor	m	45		
	Extra over uPVC soil and vent pipes for fittings:				
7	50mm Bend	No	25		
8	50mm Reducing junction	No	25		
	WATER SUPPLIES				
	Class 1 copper pipes with brass compression couplings:				
9	15mm Pipes	m	75		
	Extra over Class 1 copper pipes for brass compression fittings:				
10	15mm Fittings	No	25		
	Testing:				
11	Testing water pipe system		Item		
	Carried Forward to Trade Summary				
	Section 2 - Building Works				
	Bill No. 6				
	Plumbing and drainage				
	John Orr LAB 6400K Refurbishment and additions				
	for the University of Johannesburg				

Bill No. 6

Plumbing and drainage

TRADE SUMMARY

Total Brought Forward from Page No

**Page
No**

Amount

22
23
24
25

Carried Forward to Section Summary

Section 2 - Building Works
Bill No. 6
Plumbing and drainage
John Orr LAB 6400K Refurbishment and additions
for the University of Johannesburg

R

Item No	Quantity	Rate	Amount
<p>SECTION 2</p> <p>BILL NO 7</p> <p>PLASTERING</p> <p>-----</p> <p>PREAMBLES</p> <p>The General 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 General Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p> <p>SUPPLEMENTARY PREAMBLES</p> <p>Moisture tests:</p> <p>Before any finishes, coverings, etc are applied to screeds, plastering, etc or any other in-situ finish, moisture tests are to be carried out to the complete satisfaction of the Principal Agent to ensure that these surfaces have the correct moisture content for the finish to be applied</p> <p>Labours, etc</p> <p>Labours such as fair, rounded and chamfered edges, trowel cuts, throats, V-joints, angles, etc shall be deemed to be included in the descriptions</p> <p>CEMENT PLASTER</p> <p>Unless otherwise described, cement plaster shall be taken to mean Class 1 cement plaster i.e. 1:4 cement:sand plaster (common cement)</p>			
		R	
<p>Carried Forward to Trade Summary</p> <p>Section 2 - Building Works</p> <p>Bill No. 7</p> <p>Plastering</p> <p>John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg</p>			

Bill No. 7

Plastering

TRADE SUMMARY

Total Brought Forward from Page No

**Page
No**

27

28

Amount

Carried Forward to Section Summary

Section 2 - Building Works

Bill No. 7

Plastering

John Orr LAB 6400K Refurbishment and additions
for the University of Johannesburg

R

Item No		Quantity	Rate	Amount
	<p>SECTION 2</p> <p>BILL NO 8</p> <p>IRONMONGERY</p> <p>-----</p> <p>PREAMBLES</p> <p>The General 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 General Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p> <p>SUPPLEMENTARY PREAMBLES</p> <p>Proprietary items:</p> <p>Where applicable, the manufacturers' names or product catalogue titles are given in sub-headings preceding the items</p> <p>Prices are to be based on the specific products/articles specified. Should tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures, etc clarifying the features of the products/articles offered</p> <p>On request, returnable samples are to be provided to the Principal Agent for consideration</p> <p>Locks:</p> <p>Notwithstanding Clause 2, Item 3 of the "Ironmongery" trade of the "Standard System of Measuring Building Work, Seventh Edition", descriptions of locks shall be deemed to include two keys per lock</p>			
	<p style="text-align: right;">Carried Forward to Trade Summary</p> <p>Section 2 - Building Works Bill No. 8 Ironmongery John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg</p>		R	

Item No			Quantity	Rate	Amount
	Finishes 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				
	AN Anodised natural				
	AS Anodised silver				
	AB Anodised bronze				
	AG Anodised gold				
	ABL Anodised black				
	PB Polished brass				
	PL Polished and lacquered				
	PT Epoxy coated				
	SD Sanded				
	BBS Brushed stainless steel				
	LOCKS				
	"CISA"				
1	CISA cylinder lock with"G96D" keyway	No	4		
	DOOR HANDLES				
	Stainless steel handles (Allow prime cost of R450/Pair) delivered to site				
2	Door handles	Pairs	4.0		
	SUNDRIES				
	"Dejay" or similar approved:				
3	38mm Diameter rubber door stop plugged	No	4		
	Carried Forward to Trade Summary				
	Section 2 - Building Works				
	Bill No. 8				
	Ironmongery				
	John Orr LAB 6400K Refurbishment and additions				
	for the University of Johannesburg				

Bill No. 8

Ironmongery

TRADE SUMMARY

Total Brought Forward from Page No

**Page
No**

30

31

Amount

Carried Forward to Section Summary

Section 2 - Building Works
Bill No. 8
Ironmongery
John Orr LAB 6400K Refurbishment and additions
for the University of Johannesburg

R

Item No		Quantity	Rate	Amount
	<p>SECTION 2</p> <p>BILL NO 9</p> <p>ELECTRICAL WORK</p> <p>-----</p> <p>PREAMBLES</p> <p>The General Preambles for Trades (2017 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said Model Preambles</p> <p>SUPPLEMENTARY PREAMBLES</p> <p>Prices:</p> <p>Unless otherwise stated, the description of each item shall be deemed to include manufacturing, conveying and delivering, unloading, storing, unpacking, hoisting, setting, fitting and fixing in position, cutting, waste, patterns, templates, plant, temporary works, return of packings, establishment charges, profit and other obligations arising out of the conditions of contract</p> <p>Distribution boards, etc:</p> <p>Rates for distribution boards, etc are to include for busbars, jumpers, neutral bars, internal wiring and connections, circuit identification markers, control gear labels, circuit legend cards and working drawings</p> <p>Switches, socket outlets, etc:</p> <p>Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates</p>			
	<p style="text-align: right;">Carried Forward to Trade Summary</p> <p>Section 2 - Building Works Bill No. 9 Electrical John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg</p>		R	

Item No		Quantity	Rate	Amount
	<p>Light fittings:</p> <p>Rates for light fittings are to include for hanging, fixing and connecting and for lamp holders and fluorescent tubes and lamps of the type and wattage described</p> <p>General:</p> <p>The firm which is to carry out the electrical work, shall be a firm of experienced specialists to be employed as a domestic subcontractor to the main contractor.</p> <p>No allowance has been made in the measurement of conductors for additional lengths at connection points and prices for the measured conductors shall be deemed to include therefor</p> <p>Draw wires, unless required to be left in, are not measured separately and prices for sleeves and conduits shall be deemed to include therefor</p> <p>Conduits described as "Fixed", shall be deemed to include for fixing to all types of surfaces, casting in or building into walls, etc and prices are to include therefor.</p> <p>Prices shall include for all inspections and issuing of Certificate of Compliance (COC's)</p> <p>All work must be done in position as shown and to the approval of the principal agent.</p> <p>SUNDRIES</p> <p>1 Testing and commissioning the complete electrical installation</p> <p>2 Tracing existing routing/circuits</p> <p>POWER SKIRTING</p> <p>Cabstrut N8/P801 (or similar approved) powder skirting above floor</p> <p>3 55 x 165mm High power skirting with snap on covers, including angles, stopped ends, junctions ,etc fixed to walls</p> <p>4 End cap</p>			
		Item		
		Item		
		m	54	
		No	19	
	Carried Forward to Trade Summary		R	
	<p>Section 2 - Building Works</p> <p>Bill No. 9</p> <p>Electrical</p> <p>John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg</p>			

Bill No. 9

Electrical

TRADE SUMMARY

Total Brought Forward from Page No

**Page
No**

33

34

35

Amount

Carried Forward to Section Summary

Section 2 - Building Works
Bill No. 9
Electrical
John Orr LAB 6400K Refurbishment and additions
for the University of Johannesburg

R

Item No		Quantity	Rate	Amount
	SECTION 2			
	BILL NO 10			
	PAINTWORK			

	PREAMBLES			
	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			
	The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said Model Preambles			
	SUPPLEMENTARY PREAMBLES			
	PREPARATORY WORK TO EXISTING WORK			
	Previously painted plastered surfaces:			
	Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth			
	Previously painted metal surfaces:			
	Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal			
	Previously painted wood surfaces:			
	Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth			
	Carried Forward to Trade Summary			
	Section 2 - Building Works			
	Bill No. 10			
	Paintwork			
	John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg			
			R	

Item No		Quantity	Rate	Amount
	PAINT SPECIFICATIONS All painting shall be done in accordance with "PLASCON" specifications, unless otherwise described COLOURS Unless otherwise described, all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091 When staining timber, the resultant colour or shade must be to the complete satisfaction of the Principal Agent before any overcoating or preservative is applied -----			
	PAINTWORK, ETC TO PREVIOUSLY PAINTED SURFACES One coat alkali resistant primer and two coats "wall and all" emulsion paint for interior use, on:			
1	On internal plastered walls	m2	150	
	ON INTERNAL PLASTERBOARD PARTITIONING (PREVIOUSLY PAINTED SURFACES) One coat alkali resistant primer and two coats "wall and all" emulsion paint for interior use, on:			
2	On partitioning	m2	62	
	ON INTERNAL PLASTERBOARD PARTITIONING (NEW SURFACES) One coat alkali resistant primer and two coats "wall and all" emulsion paint for interior use, on:			
3	On partitioning	m2	106	
	Carried Forward to Trade Summary Section 2 - Building Works Bill No. 10 Paintwork John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg		R	

Bill No. 10

Paintwork

TRADE SUMMARY

Total Brought Forward from Page No

**Page
No**

37

38

Amount

Carried Forward to Section Summary

Section 2 - Building Works
Bill No. 10
Paintwork
John Orr LAB 6400K Refurbishment and additions
for the University of Johannesburg

R

Item No	Quantity	Rate	Amount
<p>SECTION 3</p> <p>BILL NO. 1</p> <p>PROVISIONAL SUMS</p> <p>-----</p> <p>PREAMBLES</p> <p>General:</p> <p>Subcontract amounts are net.</p> <p>Subcontract amounts are for material and equipment supplied and installed complete by firms of specialists</p> <p>Each subcontract amount may comprise more than one element of work. Therefore, each subcontract amount may include for work to be carried out by more than one subcontractor</p> <p>Profit:</p> <p>Where stated, the Contractor may allow for profit if required</p> <p>General attendance on nominated/selected subcontractors:</p> <p>The item "General Attendance" which follows each subcontract amount for nominated/selected subcontractors' work, shall be deemed to cover all the Contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:</p> <ol style="list-style-type: none"> 1. Access to the site and places where the subcontract work is to be carried out, including the reasonable use of any temporary personnel hoists erected by the Contractor 2. The provision of water and lighting and of single phase electric power to a position within 50 metres of the place where the subcontract work is to be carried out but excluding water, fuel and power for commissioning of any installation 			
<p align="right">Carried Forward to Trade Summary</p> <p>Section 3 - Budgetary Allowances & Provisional Sums</p> <p>Bill No. 1</p> <p>Provisional sum</p> <p>John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg</p>			<p align="right">R</p>

Item No		Quantity	Rate	Amount
	3. The provision of an area for the subcontractor to establish temporary office accommodation and workshops and for the storage of plant and materials			
	4. The use, at reasonable times by arrangement, of the Contractor's erected hoisting equipment			
	5. Making good in all trades and cleaning down and removal of rubbish on completion			
	Special attendance on nominated/selected subcontractors:			
	Where stated, special attendance, as set out in clause 8.1 of section B of the Preliminaries, will be described in detail in this bill			
	Builder's work:			
	Builder's work in connection with specialist services is given elsewhere in these bills of quantities			

	SOUND BOOTH			
1	Provide the sum of Fifty Thousand Rand for supply and installation of sound booth	Item		50,000.00
2	Allow for profit	Item		
3	Allow for attendance	Item		
	ACCESS CONTROL			
4	Provide the sum of Forty Thousand Rand for supply and installation of access control card reader	Item		40,000.00
5	Allow for profit	Item		
6	Allow for attendance	Item		
	AVU EQUIPMENT			
7	Provide the sum of Three Hundred and Fifty Thousand Rand for supply and installation of AVU Equipment with anti-theft systems	Item		350,000.00
8	Allow for profit	Item		
	Carried Forward to Trade Summary		R	
	Section 3 - Budgetary Allowances & Provisional Sums			
	Bill No. 1			
	Provisional sum			
	John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg			

Item No		Quantity	Rate	Amount
9	Allow for attendance	Item		
TELEPHONE AND NETWORK POINTS				
10	Provide the sum of Eighty Thousand Rand for supply and installation of telephone and network points	Item		80,000.00
11	Allow for profit	Item		
12	Allow for attendance	Item		
FUME ARM EXTRACTOR				
13	Provide the sum of Twenty Thousand Rand for supply and installation of fume arm extractor	Item		20,000.00
14	Allow for profit	Item		
15	Allow for attendance	Item		
OFFICE FURNITURE				
16	Provide the sum of Ten Thousand Rand for supply and installation of office furniture	Item		10,000.00
17	Allow for profit	Item		
18	Allow for attendance	Item		
LECTERN				
19	Provide the sum of Twenty Thousand Rand for supply and installation of lectern	Item		20,000.00
20	Allow for profit	Item		
21	Allow for attendance	Item		
FIRE DETECTION				
22	Provide the sum of Forty Thousand Rand for supply and installation of fire detection	Item		40,000.00
23	Allow for profit	Item		
24	Allow for attendance	Item		
Carried Forward to Trade Summary			R	
Section 3 - Budgetary Allowances & Provisional Sums				
Bill No. 1				
Provisional sum				
John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg				

Bill No. 1

Provisional sum

TRADE SUMMARY

Total Brought Forward from Page No

**Page
No**

Amount

41

42

43

Carried Forward to Section Summary

Section 3 - Budgetary Allowances & Provisional Sums
Bill No. 1
Provisional sum
John Orr LAB 6400K Refurbishment and additions
for the University of Johannesburg

R

Item No		Quantity	Rate	Amount
	VERTICAL BLINDS			
3	Budgetary Allowance of Seven Thousand Rand for supply and installation of vertical blinds	Item		7,000.00
	DISTRIBUTION BOARD UPGRADE			
4	Budgetary Allowance of Ten Thousand Rand for upgrade of DB	Item		10,000.00
	HVAC			
5	Budgetary Allowance of Fifty Thousand Rand for supply and installation of HVAC	Item		50,000.00
Carried Forward to Trade Summary				R
Section 3 - Budgetary Allowances & Provisional Sums				
Bill No. 2				
Budgetary allowances				
John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg				

Bill No. 2

Budgetary allowances

TRADE SUMMARY

Total Brought Forward from Page No

**Page
No**

45

46

Amount

Carried Forward to Section Summary

Section 3 - Budgetary Allowances & Provisional Sums
Bill No. 2
Budgetary allowances
John Orr LAB 6400K Refurbishment and additions
for the University of Johannesburg

R

SECTION SUMMARY - Section 3 - Budgetary Allowances & Provision

Bill No		Page No	Amount
1	Provisional sum	44	
2	Budgetary allowances	47	
Carried Forward to Final Summary			R
Section 3 - Budgetary Allowances & Provisional Sums John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg			

Section No	FINAL SUMMARY	Page No	Amount
1	Section 1 - Preliminaries	3	
2	Section 2 - Building Works	40	
3	Section 3 - Budgetary Allowances & Provisional Sums	48	
	SUB TOTAL		R
	CONTRACT CONTINGENCIES		
	Allow the sum of 10% of the above subtotal for Contingencies to be spent as the Principal Agent may direct and to be deducted in whole or in part if not required		R
	TOTAL INCLUDING CONTINGENCIES		R
	VALUE ADDED TAX		
	Value Added Tax [15%]		R
	TOTAL		R
	Carried to Annexure A - Form of Tender		R
	John Orr LAB 6400K Refurbishment and additions for the University of Johannesburg		