

**AIRPORT COMPANY SOUTH AFRICA (ACSA)  
ALTERATIONS TO EXISTING MSO BUILDING 3<sup>rd</sup> FLOOR  
BILL OF QUANTITIES**

Item No		Quantity	Amount
	<p><b><u>Part C2.2 BILL OF QUANTITIES</u></b></p> <p><b><u>SECTION 1</u></b></p> <p><b><u>PRELIMINARIES</u></b></p> <p><b><u>NOTES</u></b></p> <p>i) The NEC3 Engineering and Construction Short Contract (Second edition of June 2005) in conjunction with the Contract Data is taken to be incorporated herein</p> <p>ii) The Tenderer is deemed to have taken cognizance of the abovementioned documents for the full intent and meaning of each clause. These clauses are referred to by clause number and heading only</p> <p>iii) Where standard clauses or options are not applicable to this contract such modifications, corrections or supplements as are necessary, are given under each relevant clause</p> <p>iv) Where any items are not used for this specific contract such items are nevertheless listed but marked not applicable in the amount column</p> <p>v) The amount or the items of the Preliminaries are adjusted to take account of the theoretical financial effect which changes in time or value (or both) have on this section. Such adjustments are based on adjustments in the following categories as recorded in the Bill of Quantities:</p> <p style="padding-left: 20px;">a) an amount which is not varied, namely Fixed</p> <p style="padding-left: 20px;">b) an amount which is varied in proportion to the contract value, namely Value Related; and</p> <p style="padding-left: 20px;">c) an amount which is varied in proportion to the construction period as compared to the initial construction period excluding revisions to the construction period for which the contractor is not entitled to adjustment in terms of the contract, namely Time Related</p> <p style="padding-left: 20px;">iv) Items not priced in these preliminaries are deemed to be included elsewhere in this Bill of Quantities</p> <p style="text-align: right;"><b>Carried to Collection</b></p>		
		R	
	<p>Section No. 1 SECTION ONE : PRELIMINARIES Bill No. 1 PRELIMINARY AND GENERAL</p>		

**AIRPORT COMPANY SOUTH AFRICA (ACSA)  
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	<b><u>SECTION A: CONDITIONS OF CONTRACT</u></b>		
	<b><u>GENERAL (A1)</u></b>		
1	Clause 1 Fixed:..... Value Related:..... Time Related:.....	Item	
	<b><u>THE CONTRACTOR'S MAIN RESPONSIBILITIES (A2)</u></b>		
2	Clause 2 Fixed:..... Value Related:..... Time Related:.....	Item	
	<b><u>TIME (A3)</u></b>		
3	Clause 3 Fixed:..... Value Related:..... Time Related:.....	Item	
	<b><u>TESTING AND DEFECTS (A4)</u></b>		
4	Clause 4 Fixed:..... Value Related:..... Time Related:.....	Item	
	<b><u>PAYMENT (A5)</u></b>		
5	Clause 5 Fixed:..... Value Related:..... Time Related:.....	Item	
	<b><u>COMPENSATION EVENTS (A6)</u></b>		
6	Clause 6 Fixed:..... Value Related:..... Time Related:.....	Item	
	<b><u>TITLE (A7)</u></b>		
7	Clause 7 Fixed:..... Value Related:..... Time Related:.....	Item	
	<b>Carried to Collection</b>	R	
	Section No. 1 SECTION ONE : PRELIMINARIES Bill No. 1 PRELIMINARY AND GENERAL		

**AIRPORT COMPANY SOUTH AFRICA (ACSA)  
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8	<p><b><u>RISKS AND INSURANCE (A8)</u></b></p> <p>Clause 8</p> <p>Fixed:..... Value Related:..... Time Related:.....</p>	Item	
9	<p><b><u>TERMINATION (A9)</u></b></p> <p>Clause 9</p> <p>Fixed:..... Value Related:..... Time Related:.....</p>	Item	
<b>Carried to Collection</b>		R	
<p>Section No. 1 SECTION ONE : PRELIMINARIES Bill No. 1 PRELIMINARY AND GENERAL</p>			

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	<b><u>SECTION B: CONTRACT DATA</u></b>		
	<b><u>CONTRACT DATA (B1)</u></b>		
10	<p>Clause 10</p> <p>Tenderers are referred to Part C1.2 Contract Data for variables pertaining to this contract</p> <p>Fixed:..... Value Related:..... Time Related:.....</p>	Item	
	<b>Carried to Collection</b>		
	<p>Section No. 1 SECTION ONE : PRELIMINARIES Bill No. 1 PRELIMINARY AND GENERAL</p>	R	



**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND  
TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR  
BILL OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION TWO: ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>ALTERATIONS</u></b></p> <p>Tenderers are referred to the relevant clauses in the separate document: ASAQS Model Preambles for trades (2008 edition) and the ASAQS supplementary preambles which are incorporated in this Bill of Quantities.</p>				
	<p>Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 1 ALTERATIONS</p>				

**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND  
TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR  
BILL OF QUANTITIES**

1	<p><b><u>DEEP CLEANING OF EXISTING CARPETS</u></b></p> <p>Deep Cleaning of Carpets</p>	m2	740		
	<p><b>Carried to Collection</b></p>				R
	<p>Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 1 ALTERATIONS</p>				



**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND  
TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR  
BILL OF QUANTITIES**

Item No		Unit	Quantity	Rate	
	<p><b><u>SECTION TWO: INTERNAL RECONFIGURATIONS TO EXISTING MSO BUILDING (3<sup>RD</sup> FLOOR )</u></b></p> <p><b><u>BILL NO. 2</u></b></p> <p><b><u>CARPENTRY AND JOINERY</u></b></p> <p>Tenderers are referred to the relevant clauses in the separate document: ASAQS Model Preambles for trades (2008 edition) and the ASAQS supplementary preambles which are incorporated in this Bill of Quantities.</p> <p>Note: Where trade names and catalogue numbers are given, it shall be taken to mean to be followed by the words "equal or other approved".</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Note: 1) Where reference is made to proprietary materials or articles this shall be read to include "or other approved". In this regard the Tenderers attention is drawn to "Bills of Quantities Generally".2) Tenderers shall refer to the relevant Architect's Joinery schedules and relevant drawings attached with the Bills of Quantities, which indicate both the location and unit types of the various fittings together with sizes, details, etc.. Type reference refer to the Architect's joinery schedule.3) Sizes are to be verified on site prior to the manufacture of any fittings.</p> <p><b><u>GENERAL SPECIFICATIONS OF MATERIAL TO BE USED</u></b></p> <p>All prices include for supply and installation of joinery complete as per Architect's drawings including ironmongery as specified and as necessary, precast concrete plinths, metalwork, shelving, brackets and wall bands, glazing, finishes, sealing, aluminum work, making good finishes, etc. and fixing in position</p>				
	<p>Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 2 CARPENTRY AND JOINERY - SUPERSTRUCTURE</p>				

**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND  
TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR  
BILL OF QUANTITIES**

<p>1</p> <p>2</p> <p>3</p>	<p>Supply and install 1013 x 2032 x 44mm Semi Solid hollow core flush panel single paraplegic door. (Refer to door schedule - D6 on drawing 4752) with 450mm x 250mm aluminum door grill (Refer to door schedule – D7 on drawing 4752)</p> <p>Supply and install 812 x 2056 x 44mm SEMI SOLID hollow core flush panel door. Refer to door schedule – D9 on drawing 4752)</p> <p>Supply and install 450mm x 250mm aluminum door grill to existing SEMI SOLID hollow core flush panel door</p> <p><b>Note: All prices to include supply and installation of the relevant ironmongery</b></p>		<p>No</p> <p>No</p> <p>No</p>	<p>1</p> <p>1</p> <p>2</p>	<p></p> <p></p> <p></p>
<b>Carried to Collection</b>					R
<p>Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 2 CARPENTRY AND JOINERY - SUPERSTRUCTURE</p>					

**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND  
TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR  
BILL OF QUANTITIES**

	<b><u>SKIRTINGS ETC</u></b>				
	<b><u>Wrought meranti</u></b>				
1	19mm x 76mm hardwood skirting as per architect's specifications.	m	325		
	<b>Carried to Collection</b>				
	Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 2 CARPENTRY AND JOINERY - SUPERSTRUCTURE			R	



**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND  
TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR  
BILL OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION TWO: ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR)</u></b></p> <p><b><u>BILL NO. 3</u></b></p> <p><b><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></b></p> <p>Tenderers are referred to the relevant clauses in the separate document: ASAQS Model Preambles for trades (2008 edition) and the ASAQS supplementary preambles which are incorporated in this Bill of Quantities.</p> <p><b><u>Descriptions:</u></b></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or 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 600mm centres, and where described as "bolted" the bolts have been given elsewhere</p> <p><b><u>SUSPENDED CEILINGS</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Proprietary suspended ceilings</u></b></p> <p><b><u>Note:</u></b></p> <p>Electrical light fittings, diffusers, panels, etc. generally are "lay in" units of the same dimensions as the suspension grid described and allowance must be made accordingly for their support inclusive of any flexibility inseting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)</p>				
	<p>Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 3 CEILING, PARTITIONS AND ACCESS FLOORING</p>				

**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND  
TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR  
BILL OF QUANTITIES**

	<b><u>SUSPENDED CEILINGS</u></b>				
1	Supply and install acoustic suspended ceiling 600mm x 600mm to match existing.	m2	10		
	<b><u>Extra over for</u></b>				
	For opening for 80mm down lighters (Provisional)				
2		No	50		
	For opening 600mm x 600mm light fitting (Provisional)				
3		No	35		
	For opening for ventilation grille/air conditioner diffuser (Provisional)				
4		No	10		
	<b>Carried to Collection</b>				
	Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 3 CEILINGS, PARTITIONS AND ACCESS FLOORING			R	

**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND  
TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR  
BILL OF QUANTITIES**

	<p><b><u>PARTITIONS ETC</u></b></p> <p><b><u>"Rhino drywall System No 1" steel stud partitioning with "Rhino Wallboard" on both sides (45 DB rating)</u></b></p> <p><b><u>"Rhino drywall" partitioning shall comprise steel studding formed of 63.5mm top and bottom tracks with vertical studs at maximum 600mm centres, friction fitted or pop riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc. and covered as described with wallboard screwed to studding with "Drywall" screws at maximum 220mm centres. Boards are to be butt jointed and finished with "Rhino" tape and "Ready mix D" jointing compound all in accordance with the manufacturer's instructions. Intersections and abutments are measured separately and descriptions shall be deemed to include any additional studs, corner beads, jointing compound, tape, etc.</u></b></p>				
5	<p>Extra over partition for 40mm semi-solid flush door 813 x 2032mm high with commercial veneer on both sides and hardwood edge strips to vertical edges hung to and including standard pressed aluminum door frame with one pair of 100mm steel hinges including lockset (Stainless Steel Mortice 2 Lever handle) and additional studding, trimming, etc.</p>	No	3		
	<p><b>Carried to Collection</b></p> <p>Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 3 CEILINGS, PARTITIONS AND ACCESS FLOORING</p>			R	



**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND  
TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR  
BILL OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
1	<p><b><u>SECTION TWO: INTERNAL RECONFIGURATIONS TO EXISTING MSOBUILDING (3RD FLOOR)</u></b></p> <p><b><u>BILL NO. 4</u></b></p> <p><b><u>FLOOR COVERINGS, WALL LININGS, ETC</u></b></p> <p>Tenderers are referred to the relevant clauses in the separate document: ASAQS Model Preambles for trades (2008 edition) and the ASAQS supplementary preambles which are incorporated in this Bill of Quantities.</p> <p><b>Note : Where trade names and catalogue numbers are given, it shall be taken to mean to be followed by the words "equally approved".</b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><u>Fixing</u></p> <p>Floor coverings, wall linings, etc. shall, where applicable, be fixed with adhesive recommended by the manufacturers of the flooring, lining, etc.</p> <p><b><u>FLOOR COVERINGS</u></b></p> <p><b><u>Belgotex "Cross fire" (or equal approved) Tufted Loop Pile 600 x 600mm Carpet Tiles with Nexbac backing, laid in accordance with the code of practice for the installation of textile floor coverings (SANS 10186) as per architect's specifications. Screeds need to be smooth, level and dust free, laid into pressure sensitive/permanent tac adhesive such as Alcolin Permo seal (or other approved), applied to the screed with a 2mm x 6mm Notched trowel. To give maximum adhesive contact and a secure bond to the floor the installation should be Rolled with a 3-section 68KG flooring roller. Tiles to be installed monolithic: direction by architect. Carpets to match existing. Sample to be approved to Client</u></b></p> <p>On floors</p> <p><b>Carried Forward to Summary of Section No.2</b></p> <p>Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 4 FLOOR COVERINGS – SUPERSTRUCTURE</p>	m2	100		R

**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND  
TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR  
BILL OF QUANTITIES**

**BILL NO. 5**

**FLOOR TILING**

**FLOOR COVERINGS, WALL LININGS,  
ETC**

Tenderers are referred to the relevant clauses in the separate document: ASAQS Model Preambles for trades (2008 edition) and the ASAQS supplementary preambles which are incorporated in this Bill of Quantities.

**Note : Where trade names and catalogue numbers are given, it shall be taken to mean to be followed by the words "equally approved".**

**SUPPLEMENTARY PREAMBLES**

Fixing

Floor coverings, wall linings, etc. shall, where applicable, be fixed with adhesive recommended by the manufacturers of the flooring, lining, etc.

**Ceramic Tiling**

450mm x 450mm ceramic floor tiles to be installed (Allow Prime Cost amount of R250/m<sup>2</sup> delivered to site) on ablutions area to match existing. Sample to be approved by Client prior to installation

m<sup>2</sup>

15

**Carried Forward to Summary of Section No.2**

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Section No. 2  
ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI  
STOREY OFFICE BUILDING: 3RD FLOOR  
Bill No. 5: Tiling

**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND  
TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR  
BILL OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION TWO: INTERNAL RECONFIGURATIONS TO EXISTING MSO BUILDING (3RD FLOOR)</u></b></p> <p><b><u>BILL NO. 6</u></b></p> <p><b><u>METALWORK</u></b></p> <p>Tenderers are referred to the relevant clauses in the separate document: ASAQS Model Preambles for trades (2008 edition) and the ASAQS supplementary preambles which are incorporated in this Bill of Quantities.</p> <p><b><u>METALWORK</u></b></p> <p><b><u>HOT DIPPED GALVANISED PRESSED STEEL DOOR FRAMES</u></b></p> <p><b><u>Descriptions</u></b></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p>Items described as "plugged" shall be deemed to include screwing to fiber, plastic or metal plugs at not exceeding 600mm centers</p> <p><b><u>Aluminum doors, windows, etc.</u></b></p> <p>NOTE: POWDER COATING TO SABS 1274 TYPE 6 SAFETY GLAZING TO SABS 1263 TYPE 1</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 6 METALWORK</p>				
				R	











**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND  
TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR  
BILL OF QUANTITIES**

	<p>Complete glazing as specified with and including glazing be as and gaskets as specified and glazed in accordance with the manufacturers written instructions. All glazing to comply with part N of NBR.</p> <p>Building in and fixing into preformed openings. All opening sizes must be verified on site before manufacture commences. Costs for additional packing, caulking, etc., must be included in the overall rates.</p> <p>Suitably protecting all exposed aluminum and glass surfaces with an approved protection tape and durable plastic sheeting. Such protection is to be removed at completion of the contract and the surface cleaned down and left perfect. Any damage, scratches, etc., to be the finished product will definitely be unacceptable.</p> <p>Shop drawings as required by the Architect. A contractor shall provide a copy of the approved AAAMSA Performance Test Certificate from the manufacturer, prior to commencement of the works.</p> <p><b><u>44 Frame system natural anodized aluminum glazed panels comprising of 6.38mm Clear laminated safety glazing plugged to partitions, all in accordance with SANS 10400 and AAAMSA regulations. (Price to include vinyl sandblasting as indicated on Drawing No. 2950).</u></b></p>				
1	2850 x 2700mm aluminum framed, fixed panel window with aluminum door as shown on Drawing No. 4751 Rev01(W09).	No	1		
2	1550 x 2700mm aluminum framed, fixed panel window as shown on Drawing No. 4751 Rev 01 (W12)	No	1		
3	3170 x 2700mm aluminum framed, fixed panel window with aluminum door as shown on Drawing No. 4751 (W13)	No	1		
4	2610 x 2700mm aluminum framed, fixed panel window with aluminum door as shown on Drawing No. 4751 (W14)	No	1		
	Note: All prices to include supply and installation of the relevant ironmongery				
	<b>Carried to Collection</b>			R	
	Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 6 METALWORK				

**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND  
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- 5 2600 x 2700mm aluminum framed, fixed panel window as shown on Drawing No. 4751 (W15)
- 6 2850 x 2700mm aluminum framed, fixed panel window with aluminum door as shown on Drawing No. 4751 (W16)
- 7 1400 x 2700mm aluminum framed, fixed panel window as shown on Drawing No. 4751 (W17)
- 8 Install Aluminum doors 900x 2100 x 44mm aluminum framed single door with 600mm x 812mm fixed glazing panel above.. Doors to be supplied by Client (Refer to door schedule - D5 on drawing 4752)

No	4
No	1
No	1
No	6

**Note: All prices to include supply and installation of the relevant ironmongery**

**Carried to Collection**

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Section No. 2  
ALTERATIONS AND TENANT FITOUT TO EXISTING  
MULTI STOREY OFFICE BUILDING: 3RD FLOOR  
Bill No. 6  
METALWORK

**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND  
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BILL OF QUANTITIES**

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**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND  
TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR  
BILL OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION TWO: INTERNAL RECONFIGURATIONS TO EXISTING MSO BUILDING (3RD FLOOR)</u></b></p> <p><b><u>BILL NO. 7</u></b></p> <p><b><u>PAINTWORK</u></b></p> <p>Tenderers are referred to the relevant clauses in the separate document: ASAQS Model Preambles for trades (2008 edition) and the ASAQS supplementary preambles which are incorporated in this Bill of Quantities.</p> <p>NOTE:</p> <p>a) Where trade names and catalogue numbers are given it shall be taken to mean to be followed by the words "or other approved"</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>PREPARATORY WORK TO EXISTING WORK</u></b></p> <p><b><u>Previously painted plastered surfaces</u></b></p> <p>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</p> <p><b><u>Previously painted metal surfaces</u></b></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 7 PAINTWORK</p>				
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**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND  
TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR  
BILL OF QUANTITIES**

Section No. 2  ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR  Bill No. 7  PAINTWORK  <u><b>COLLECTION</b></u>  Total Brought Forward from Page No.		<b>Page No</b>  28  29		<b>Amount</b>	
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Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 7 PAINTWORK				R	





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TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR  
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Item No	Unit	Quantity	Rate	Amount
<p><b><u>SECTION TWO: INTERNAL RECONFIGURATIONS TO EXISTING MSO BUILDING (3<sup>RD</sup> FLOOR)</u></b></p> <p><b><u>BILL NO. 9</u></b></p> <p><b><u>ELECTRICAL INSTALLATION</u></b></p> <p>Tenderers are referred to the relevant clauses in the separate document: ASAQS Model Preambles for trades (2008 edition) and the ASAQS supplementary preambles which are incorporated in this Bill of Quantities.</p>				
<p><b><u>Section 1: Earthing and bonding</u></b></p>				
1			SUM	
<p>Bond the water main to the adjacent down conductor. All water pipes, hand basins, sinks, baths, aluminum gutters, aluminum roof sheeting and rain water pipes shall be bonded.</p>				
2			SUM	
<p>The contractor shall allow for all items not specifically mentioned above in order to provide a complete working solution as per the specifications</p>				
<p><b><u>Section 2: Distribution Boards</u></b></p>				
3			SUM	
<p>DB Normal / DB Emergency / DB UPS - Add / Amend circuits in existing panels including any additional wiring and all other accessories of similar brand and specification</p>				
<b>Carried to Collection</b>				
				R
<p>Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 9 ELECTRICAL INSTALLATION</p>				



**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND  
TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR  
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<b><u>Section 4: Luminaires and Light Switches</u></b>					
<b><u>Supply, deliver, accept and store the following luminaires, complete with lamps and control gear which are to be as specified or otherwise approved as specified in the Schedule of Light Fittings. All recessed fluorescent fittings and downlighter to have 5A plugs and 3m cabtyre. All luminaires shall be DALI system compatible</u></b>					
14	Type A: Recessed luminaire with diffuser (596x596x85mm), low power LED, 1x36W, 4000K, neutral white, dimmable electronic ballast with DALI compatible, min 0.98 power factor, optic with diffuser, L97, B50, minimum 10 Year Warranty, SABS or equivalent certification TECNOLITE White Interior IP 20	No	140		
15	Type AE: As type A above, with integral battery back-up with 50% output for 60 minutes	No	92		
16	Type B: Recessed luminaire spot (98X95X63mm), high power LED, 1x10W, 4000K, neutral white, S driver fixed output, optic spot. Dimmable electronic ballast with DALI compatible, Luminaire colour RAL9210 white. B50, L97 life time, minimum 10 Year Warranty, SABS or equivalent certification	No	43		
17	Type BE: As type B above, with integral battery back-up with 50% output for 60 minutes	No	11		
18	Type C: Horizontally/Vertically Mounted 15W LED BEKA Series 21 Decorative LM6 Aluminum Bulkhead Light Fitting or Similar Approved bearing SABS mark, Complete with dimmable electronic ballast with DALI control capability, L97, B50, minimum 5 Year Warranty, SABS or equivalent certification, min 0.98 PFC, Teflon and Silicon Wiring, Diaphragm Grommets and Circuit Designation Data	No	40		
19	Type CE: As type C above, with integral battery back-up with 50% output for 60 minutes	No	29		
20	20 / 40 high-brightness LED Emergency signage, with LED charge indication light, NiMH battery, 1 or 3hrs 60lumen emergency duration and bearing SABS mark. min 7 years lifespan or life-time, SABS or equivalent certification	No	10		
<b>Carried to Collection</b>					R
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21	360° Dali Compatible Light Occupancy Sensor Compatible with all luminaires in this schedule, Dual Technology Code: SLS/SEN/TRI-BD/2W	No	60		
22	16 A, 1 lever, 1 way, flush mounted switch unit complete with PVC cover and metal screws (100mm x 50 mm)	No	40		
23	16 A, 1 lever , 2 way flush mounted switch unit complete with PVC cover and metal screws (100mm x 50 mm)	No	10		
24	16 A, 2 lever, 1 way, flush mounted switch unit complete with PVC cover and metal screws (100mm x 50 mm)	No	6		
25	The contractor shall allow for all items not specifically mentioned above in order to provide a complete working solution as per the specifications				SUM
<b><u>Section 5: Socket Outlets, Isolators and Power Dock Units</u></b>					
26	16 A three pin normal switched socket outlet complete with PVC cover and metal screws mounted in brick/dry wall (100mm x 100mm)	No	2		
27	16 A three pin dedicated switched socket outlet complete with PVC cover and metal screws mounted in brick/dry wall (100mm x 100mm)	No	2		
28	16 A three pin normal switched socket outlet complete with PVC cover and metal screws mounted on power skirting	No	4		
29	16 A three pin dedicated switched socket outlet complete with PVC cover and metal screws mounted on power skirting	No	4		
30	Type AA: Power Dock Unit as specified in Luminaire and Power Dock Returnable Schedule including desktop cut-out, all connections and accessories (workstation)	No	110		
31	Type BB: Power Dock Unit as specified in Luminaire and Power Dock Returnable Schedule including desktop cut-out, all connections and accessories (office)	No	20		
31a	Type CC: Power Dock Unit as specified in Luminaire and Power Dock Returnable Schedule including desktop cut-out, all connections and accessories (office)	No	4		
<b><u>Section 6: Hand Dryers</u></b>					
32	Supply and connect stainless steel hand dryers on the 4th floor ablutions 295 (L) x 92 (W) X 320 (H) mm, 2.4 Kw (Connection point available)	No	2		R
<b>Carried to Collection</b>					

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<b>Section 7: IT / Data</b>					
34	Data/Telephone/ BMS/CCTV/Printers/ Access Points/ EMS	No	105		
35	New Cat 7 Lan Points including 2m Patch / 3m Fly Lead and wall outlet Module.	No	105		
36	Labelling / Testing / Commissioning	No	105		
<b>Additional</b>					
37	Reinstatement of video conferencing equipment in 3rd; 4th floor Boardrooms and western end meeting rooms. This includes installation of Video cabling, sound cabling, data Cabling and other fittings to make system fully functional.			4	
	Installation of all Equipment, testing and commissioning <b>Noting:</b> Video and sound Equipment will be provided by ACSA.				
37.1	Ushaka Meeting Room 1	No	1		
37.2	Umntho Meeting Room 2	No	1		
37.3	Isizulu Meeting Room 3	No	1		
37.4	Indiza Meeting room 4	No	1		
38	All old cabling will need to be removed and replaced with new cabling in their designated locations.				
<b><u>Standard Cable specifications are as follows:</u></b>					
39	Adhere to Cable Specification (Orange: Cat7 S-Ftp LSZH 10G 750MHZ)				
40	Orange - Patch leads is factory terminated and distance specific – minimum slack (Rack).				
41	Orange factory supplied fly leads is used at work area cabling zones [user end].				
42	All cables are patched into brush panels into cabinets.				
43	Labels on patch panel to be visible as per labelling standards.				
44	Looms/ bundles of 12 to start from patch panel. Jacket removal point to be kept to minimum - not to compromise cable integrity. Jackets to remain up to connecting block.				
45	Patch connectors are positioned correctly into patch panels without any stress on the cable or additional twists– no forcing connectors place.				
<b>Carried to Collection</b>				R	
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46	Cable bending not exceeding 35mm radius in fibre and 65mm in copper. 10 x outer diameter for fibre.				
47	Copper: 24 port panels. Shielded patch panels are used.				
48	Cables is to be locked in place within a room and outside a room using Velcro				
49	Shielded keystones where applicable – compulsory where SFTP cables are required.				
50	Offices: dual port recessed panels fixed against floor trunking [RJ45]. Blanking panels for unused ports				
51	2x Power cord installed and mounted neatly (Not obstructing air flow) for redundant A & B supply				
52	Network cables installed and mounted neatly (not obstructing air flow)				
53	FLUKE Copper test results required for new installations and to be submitted with handover/Sign off.				
54	Link Runner test to only for troubleshooting and to determine VLAN and Connection.				
	<b>Cable Labelling Standard:</b>				
	<i>a. Size: Medium</i>				
	<i>b. Width: Normal</i>				
	<i>c. Style: Normal</i>				
	<i>d. On server side:</i>				
	• “Row#/Cab#/PP#-Port#/SW-Port#”				
	<i>(i.e. R1/Cab2/pp01-p21/GRJ-CR1-SW4-p24)</i>				
	<i>e. On switch side:</i> • “Row#/Cab#/ServerName/nic#				
	• <i>(i.e. R3/Cab4/ELSVMHPEMON1/Nic01</i>				
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<b><u>Section 8: Power Trunking, Power Skirting, Cable Ladders and Wire Mesh</u></b>					
55	Two (2) compartment hospital grey metal power skirting similar to existing with covers (individual compartment) including end caps, splices, horizontal elbows (internal and external) and tees, as detailed. Type: Legrand or similar approved	m	400		
56	300mm wide HDG Gridspan wire mesh supported on HDG OL1000 Oilstrut complete with all clamps and structural steel M6 bolts, Hex nut and flat washer per splice clamp set at 1200mm nut and flat washer per splice clamp set at 1200mm centres	m	400		
57	Where required, re-route power trunking units, cables ladders and wire mesh and respective cables in liaison with Engineer and approval				
57.1	Power Trunking Units	m	200		
57.2	Cable ladders	m	200		
57.3	Wire Mesh Cable Trays	m	200		
58	The contractor shall allow for all items not specifically mentioned above in order to provide a complete working solution as per the specifications				SUM
<b><u>Section 9: Fire Detection</u></b>					
59	Liaise with ACSA, trace existing fire detection cables and equipment, disconnect, re-route and/or re-position to new locations and test for operation				
60	PH 30 type fire retardant cable in accordance with SABS 150 / SABS 168 drawn into wireways as described including terminations	m	1,200		
61	Optical sensor [ZP730-2] including base or similar to ACSA specification and compliant to existing system	No	40		
	<b>Carried to Collection</b>				R
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64	Heat sensor [ZP720-3] including base or similar to ACSA specification and compliant to existing system	No	4		
65	Framed and laminated A3 size minic drawing with detailed equipment numbers, zones, etc fixed to wall next to alarm panel or per floor	No	4		
66	HVAC, fire detection and fire protection systems interface, including shutdown relays and all respective accessories				SUM
67	Testing and commissioning of the entire fire detection installation including radio or DATA link to the local Fire Brigade and/or ACSA control room to ACSA satisfaction				SUM
68	The contractor shall allow for all items not specifically mentioned above in order to provide a complete working solution as per the specifications				SUM
<b><u>Section 10: Conductors</u></b>					
<b><u>600/1 000 V grade PVC installed stranded copper conductor drawn in conduit / wireways</u></b>					
69	Trace, test, make safe, disconnect and deliver to stores / dispose off-site redundant electrical cables prior to works demolitions				SUM
70	2.5 mm <sup>2</sup> conductor	m	20,000		
71	4mm <sup>2</sup> conductor	m	10,000		
72	6mm <sup>2</sup> conductor	m	400		
73	2.5 mm <sup>2</sup> earth conductor	m	10,000		
74	4mm <sup>2</sup> earth conductor	m	5,000		
75	6mm <sup>2</sup> earth conductor	m	200		
76	The contractor shall allow for all items not specifically mentioned above in order to provide a complete working solution as per the specifications. All measurable on completion of each installation				SUM
<b>Carried to Collection</b>					R
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<b><u>Section 11: Conduits</u></b>					
<b><u>Conduit placed in position for casting in concrete or screed, for building or chasing in concrete or brickwork, and surface mounting In ceiling voids including bending, short lengths, draw boxes, couplings, bends, tees, saddles and conduit glue. 1mm galvanized draw wire shall be installed in wireways for other services</u></b>					
77	20 mm Diameter	m	6,000		
78	25 mm Diameter	m	2,000		
78	50mm round conduit box as specified placed in position for casting in concrete, building or chasing into brickwork or surface mounting.	m	425		
80	100 x 50 x 50 mm wall box as specified placed in position for casting in concrete, building or chasing into brickwork.	No	4		
81	100 x 100 x 50 mm wall box as specified placed in position for casting in concrete, building or chasing into brickwork.	No	4		
82	Blank cover plate for 50 mm round box with metal screws	No	2		
83	Blank cover plate for 50 x 100 mm box with metal screws	No	2		
84	Blank cover plate for 100 x 100 mm box with metal screws	No	2		
85	The contractor shall allow for all items not specifically mentioned above in order to provide a complete working solution as per the specifications. All measurable on completion of installation			SUM	
<b><u>Section 12: Testing, Commissioning and Handover</u></b>					
86	Test and commission the complete installation + Compliance Certificates, test results and quality documentation.	No	2		
<b>Carried to Collection</b>					
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87	Allow for the marking up of drawings of the entire installation for the production of construction drawing records. The Engineer shall produce the final drawings			SUM	
88	Provide attendance to Supply Authority Staff and other Contractors during Construction.			SUM	
89	Supply and install all power, lighting and earthing signs and labels as specified and in accordance with all OHS Act requirements as well as per Supply Authority requirements.			SUM	
90	12 month maintenance, support and guarantee			SUM	
91	Operations and maintenance manuals			SUM	
92	RC floor slab metal detection exercise and marking before coring and/or chasing in liaison with Structural Engineer and ACSA maintenance			SUM	
93	RC floor minimum 20mm diameter through coring under power skirting and floor boxes/workstation position and making good in liaison with Structural Engineer and ACSA maintenance			SUM	
94	RC floor chasing minimum 100mm wide x 30mm deep from power skirting to floor boxes, install 20mm diameter conduit and making good in liaison with Structural Engineer and ACSA maintenance			SUM	
95	Supply and installation of fire resistant sealer at all cable entry ducts and between floor slabs. Type Pyrocote or equal and approved.			SUM	
96	Electrical Certificate of Compliance			SUM	
97	Airconditioning System Central Remote Control Configuration and Implementation in all open plan offices including all accessories			SUM	
98	The contractor shall allow for all items not specifically mentioned above in order to provide a complete working solution as per the specifications			SUM	
<b>Carried to Collection</b>					
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	CONTINGENCY (10% of Estimated Construction Value)	%	R
	SUB-TOTAL		R
	ADD:VAT(15%)		R
	<b>TOTAL</b>		<b>R</b>
	<b>Carried to Form of Tender</b>		R