

Item No		Quantity	Amount
	<u>Part C2.2 BILL OF QUANTITIES</u>		
	<u>SECTION 1</u>		
	<u>PRELIMINARIES</u>		
	<u>NOTES</u>		
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		
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		
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		
iv)	Where any items are not used for this specific contract such items are nevertheless listed but marked not applicable in the amount column		
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:		
a)	an amount which is not varied, namely Fixed		
b)	an amount which is varied in proportion to the contract value, namely Value Related; and		
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		
iv)	Items not priced in these preliminaries are deemed to be included elsewhere in this Bill of Quantities		
	Carried to Collection	R	
	Section No. 1 SECTION ONE : PRELIMINARIES Bill No. 1 PRELIMINARY AND GENERAL		

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

<u>RISKS AND INSURANCE (A8)</u>			
8	Clause 8 Fixed:..... Value Related:..... Time Related:.....	Item	
<u>TERMINATION (A9)</u>			
9	Clause 9 Fixed:..... Value Related:..... Time Related:.....	Item	

<p><u>SECTION B: CONTRACT DATA</u></p> <p><u>CONTRACT DATA (B1)</u></p>	<p>10</p>	<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>	<p>Item</p>		
	<p>Carried to Collection</p>	<p>R</p>	<p>Section No. 1</p> <p>SECTION ONE : PRELIMINARIES</p> <p>Bill No. 1</p> <p>PRELIMINARY AND GENERAL</p>		

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

<p>Section No. 1</p> <p>SECTION ONE : PRELIMINARIES</p> <p>Bill No. 1</p> <p>PRELIMINARY AND GENERAL</p> <p><u>COLLECTION</u></p> <p>Total Brought Forward from Page No.</p> <p style="text-align: right;">Carried to Final Summary</p> <p>Section No. 1</p> <p>SECTION ONE : PRELIMINARIES</p> <p>Bill No. 1</p> <p>PRELIMINARY AND GENERAL</p>	<p style="text-align: center;">Page No</p> <p style="text-align: center;">1</p> <p style="text-align: center;">2</p> <p style="text-align: center;">3</p> <p style="text-align: center;">4</p> <p style="text-align: center;">R</p>	<p style="text-align: center;">Amount</p> <p style="text-align: center;">-----</p> <p style="text-align: center;">-----</p> <p style="text-align: center;">-----</p> <p style="text-align: center;">-----</p> <p style="text-align: center;">-----</p> <p style="text-align: center;">-----</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**

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION TWO: ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR</u></p> <p><u>BILL NO. 1</u></p> <p><u>ALTERATIONS</u></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>				
	Carried to Collection			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**

	<u>DEEP CLEANING OF EXISTING CARPETS</u>					
1	Deep Cleaning of Carpets	m2	740			

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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><u>SECTION TWO: INTERNAL RECONFIGURATIONS TO EXISTING MSO BUILDING (3RD FLOOR)</u></p> <p><u>BILL NO. 2</u></p> <p><u>CARPENTRY AND JOINERY</u></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><u>SUPPLEMENTARY PREAMBLES</u></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><u>GENERAL SPECIFICATIONS OF MATERIAL TO BE USED</u></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 style="text-align: right;">Carried to Collection</p>				
	Section No. 2			R	
	ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR				
	Bill No. 2				
	CARPENTRY AND JOINERY - SUPERSTRUCTURE				

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

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

Confidential

**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><u>SECTION TWO: ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR)</u></p> <p><u>BILL NO. 3</u></p> <p><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></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><u>Descriptions:</u></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><u>SUSPENDED CEILINGS</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary suspended ceilings</u></p> <p><u>Note:</u></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 style="text-align: right;">Carried to Collection</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>				
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**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND
TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR
BILL OF QUANTITIES**

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

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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
1	<p><u>SECTION TWO: INTERNAL RECONFIGURATIONS TO EXISTING MSO BUILDING (3RD FLOOR)</u></p> <p><u>BILL NO. 4</u></p> <p><u>FLOOR COVERINGS, WALL LININGS, ETC</u></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 "equally approved".</p> <p><u>SUPPLEMENTARY PREAMBLES</u></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><u>FLOOR COVERINGS</u></p> <p><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 Permoseal (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></p> <p>On floors</p> <p>Carried Forward to Summary of Section No.2</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		
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**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 PREAMBLESFixing

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

Ceramic Tiling

1

450mm x 450mm ceramic floor tiles to be installed (Allow Prime Cost amount of R250/m² delivered to site) on ablutions area to match existing. Sample to be approved by Client prior to installation

m²

15

Carried Forward to Summary of Section No.2

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

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><u>SECTION TWO: INTERNAL RECONFIGURATIONS TO EXISTING MSO BUILDING (3RD FLOOR)</u></p> <p><u>BILL NO. 6</u></p> <p><u>METALWORK</u></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><u>METALWORK</u></p> <p><u>HOT DIPPED GALVANISED PRESSED STEEL DOOR FRAMES</u></p> <p><u>Descriptions</u></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><u>Aluminum doors, windows, etc.</u></p> <p>NOTE: POWDER COATING TO SABS 1274 TYPE 6 SAFETY GLAZING TO SABS 1263 TYPE 1</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 6 METALWORK</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**

<p>included in these Bills of Quantities, which indicate the various window types, details, specifications and references where applicable</p> <p>Items shall be manufactured as per "Richards and Barlow" or similar approved who shall provides samples, as and when requested, for the Architect's approval. All costs associated with the provision of samples shall be included in the overall rate and no additional claim for costs in this regard will be entertained.</p> <p>All aluminum work to be approved as per AAAMSA. All extrusion sizes to be as per AAAMSA approved sizes.</p> <p>Tenderers are to note that should there be any doubt or obscurity as to the meaning and intent of any description, the tenderer must have the same rectified with the Architect and allow for accordingly in his tender. The tenderer is to include in his rates for all that he considers necessary for the proper construction and erection of windows, doors and shop fronts</p> <p>No claims whatsoever will be afterwards admitted due to the tenderer having failed to comply with any of these conditions</p> <p>Rates shall include for the following:</p> <p>a) All opening and fixed lights, coupling mullions and transoms, fittings, standard ironmongery, factory fitted burglar proofing, etc. as required and specified</p> <p>b) Complete glazing as specified with and including glazing beads and gaskets as specified and glazed in accordance with the manufacturer's written instructions. All glazing to comply with NBR of SABS 0400</p> <p>c) Building in and fixing into preformed openings. All opening sizes must be verified on site before manufacture commences. Costs for additional packing etc. must be included in the overall rates</p> <p>d) Suitably protecting all exposed aluminum and glass surfaces with an approved 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 the finished product will definitely be unacceptable.</p> <p>e) Silicone pointing with an approved silicone sealant recommended by AAAMSA on all external window,</p>				
<p style="text-align: center;">Carried to Collection</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>door, shop fronts and structure junctions.</p> <p>f) Any and all additional supports, brackets, etc. required other than that shown on the drawings that is deemed necessary for the proper manufacture and installation of the windows, doors and shop fronts. In this regard, the tenderer is advised to refer to all drawings and schedules available for perusal at the Architect's office in order to satisfy himself of the requirements of this clause</p> <p>Doors and windows shall comply with AAAMSA design criteria</p> <p>Glazing shall comply with SAGGA regulations. Glass shall be type 56mm clear (RH) P.F.G. multi laminated bullet resistant glass as shown on the window schedules/drawings appended to these bills of quantities. Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings</p> <p>Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed</p> <p>For purpose made windows and doors, refer to drawings annexed to these bills of quantities</p> <p>The following certificates shall be provided prior to commencement of site work:</p> <p>1 A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminum product</p> <p>2 A Certificate of Conformance confirming that anodizing or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 6 METALWORK</p>				<p style="text-align: center;">R</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**

<p>3 A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process</p> <p>4 A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials had been permanently marked</p> <p>5 A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against de-lamination and colour degradation for a period of not less than five years</p> <p><u>Specifically</u></p> <p>Rates for aluminum windows and doors shall include for the following:</p> <p>(a) All design (where required) including proof of conformance/compliance with specifications and the furnishings of required tests/ guarantees</p> <p>(b) Provision of all fixed/opening lights/sashes, fittings, hinges, seals and glazing beads</p> <p>(c) All ironmongery as implied and specification</p> <p>(d) Glazing complete</p> <p>(e) Provision of a waterproofing guarantee</p> <p>(f) Completion of a design indemnity letter provided by the Architect</p> <p>(g) Provision of shop drawings for Architect's approval</p> <p>(h) Approval by the Architect of the aluminum profile and color sample prior to manufacturing</p> <p>(i) Framework and structural support to windows and doors to be sized by specialist and inclusion in drawings including provision for compliance with wind load requirements</p> <p>(j) Allowance in design for tolerances to cater for expansion and contraction of aluminum</p> <p>(k) Fixing complete into preformed openings</p> <p>(l) Suitably protecting all exposed surfaces by an approved method such protection is to be removed at completion of the contract and all work is to be cleaned down and left perfect</p> <p>(m) The contractor to provide Architect with guarantee for workmanship provided</p>				
Carried to Collection			R	
<p>Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 6 METALWORK</p>				

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

Quantities and Measurement

The quantities have been measured on an overall basis taking into account that the drawings will be issued to the tenderers and tenderers will be producing their own designs.

Accordingly, the measurements are not in accordance with the Standard System of measurement.

The simplified overall basis of measurement applied herein is intended to provide a basis for tenders to be based upon the same basic quantities and for final measurement and valuation of the works as executed.

It is, furthermore, the only basis of measurement upon which final re measurement and valuation will be made.

If tenderers require any additional items to be measured or taken into account in re measurement they are to set these out at the end of this Bill in the space provided and include the cost in their tender. Tenders and rate will be assumed to include all sundry items and everything necessary for the completion of the work in accordance with the intent of the design.

The Contractor

The contractor shall supply all scaffolding, hoisting and craneage necessary

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
TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR
BILL OF QUANTITIES**

**DESIGN, SUPPLY, DELIVERY AND ERECTION OF
NATURAL ANODIZED ALUMINIUM WINDOWS,
DOORS, shop fronts, ETC**

Tenderers are instructed to refer to the Architects schedules, drawings and related specifications in respect of the above-mentioned which is appended to these Bills of Quantities.

Items shall be manufactured by an approved specialist, as per "Wispeco" or other equal and approved who shall provide samples, as when requested for the Architect's approval. All costs associated with the provision of samples shall be included in the overall rates and no additional claim for costs, in this regard, will be entertained.

All aluminum work to be approved as per AAAMSA. All extrusion sizes to be as per AAAMSA approved sizes.

NOTES

Tenderers are advised to refer to the window schedule together with related specifications which indicate and detail the various windows, etc. as specified. These drawings, schedules and specifications are available at the offices of the architect.

Tenderer's are to note that should there be any doubt or obscurity as to the meaning and intent of any description, the tenderer must have the same rectified with the Architect and allow accordingly in his tender. The tenderer is to include in his rates for all that he considers necessary for the proper construction and erection of windows, doors and shop fronts.

No claim whatsoever will be afterwards admitted due to the tenderer having failed to comply with any of these conditions.

Rates shall include for the following:

All openings and fixed lights, vertical sides, coupling mullions and transoms, fittings, floor springs, all ironmongery to Architects specification, etc., as required and specified. All exposed aluminum surfaces to be 25 micron termosash natural ANODIZED aluminum as "Wispeco" or other equal and approved, unless otherwise stated, as per the Architects specifications.

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
TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR
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	<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><u>44 Frame system natural anodised aluminum glazed panels comprising of 6.38mm Clear laminated safety glazing plugged to partitions, all in accordance with SANS 10400 and AAAMSA regulations.</u> (Price to include vinyl sandblasting <u>as indicated on Drawing No. 2950).</u></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					
	Carried to Collection				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
TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR
BILL OF QUANTITIES**

5	2600 x 2700mm aluminum framed, fixed panel window as shown on Drawing No. 4751 (W15)	No	4	
6	2850 x 2700mm aluminum framed, fixed panel window with aluminum door as shown on Drawing No. 4751 (W16)	No	1	
7	1400 x 2700mm aluminum framed, fixed panel window as shown on Drawing No. 4751 (W17)	No	1	
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	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				

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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><u>SECTION TWO: INTERNAL RECONFIGURATIONS TO EXISTING MSO BUILDING (3RD FLOOR)</u></p> <p><u>BILL NO. 7</u></p> <p><u>PAINTWORK</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>PREPARATORY WORK TO EXISTING WORK</u></p> <p><u>Previously painted plastered surfaces</u></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><u>Previously painted metal surfaces</u></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p>				
	Carried to Collection				
	Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 7 PAINTWORK			R	

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

<u>Previously painted wood surfaces</u>					
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					
<u>PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK</u>					
<u>ON FLOATED PLASTER</u>					
<u>One coat primer, one undercoat to SABS 681 type 11 and two coats Plascon "Orchid Bay GR Y06 OR Mandarin Tusk 49" acrylic emulsion paint as per architect's specification. Paint Color to be finalized after in situ sample approval.</u>					
1	On plastered walls internally	m2	50		
2	On partitions	m2	282		
3	On columns		110		
<u>ON WOOD</u>					
<u>One coat pink wood primer, one undercoat and two coats polyurethane enamel paint</u>		m			
4	On skirtings, rails, etc. not exceeding 300mm girth		325		
<u>PAINTWORK ETC TO NEW WORK</u>					
<u>ON TIMBER DOORS ETC.</u>					
<u>Prepare, knot, stop, one coat primer to SABS 678 type 111, one universal undercoat to SABS 681 type 11 and two coats Dulux "Velvaglo" polyurethane velvet enamel paint of interior/exterior quality to selected tints</u>					
5	Doors	m2	14		
Carried to Collection				R	
Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 7 PAINTWORK					

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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><u>SECTION TWO: INTERNAL RECONFIGURATIONS TO EXISTING MSO BUILDING (3RD FLOOR)</u></p> <p><u>BILL NO. 8</u></p> <p><u>PROVISIONAL SUMS</u></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>All provisional sums covers supply of material and equipment and installation. Provisional sums are nett and do not include builder's discount (excluding settlement discount) and Vedette Tax but the tenderer may allow under "Profit" items any profit he considers necessary</p> <p><u>LOOSE FURNITURE INSTALLATION</u></p> <p>Allow the Provisional amount of R 1,800,000.00 (One Million Eight Hundred Thousand Rand) for the complete supply and positioning of Loose Furniture.</p> <p>1</p> <p>2 Add for profit</p> <p>3 Add for general attendance</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 8 PROVISIONAL AMOUNTS</p>				
			Item	R1 800 000	R 1 800 000
				%	
				%	
				R	

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

4	<u>TEMPORAL OFFICE SPACE</u>				
	Allow the Provisional amount of R100 000 for de-establishment of office setup at a temporal office currently used by Client (Ebukhosini). Price to include moving boxes from Ebukhosini to Multistorey Office 3 rd floor.		Item	R100 000	R100 000
5	Add for profit				%
6	Add for general attendance				%
7	<u>AIRCONDITIONING UNITS</u>				
8	Allow the provisional amount of R60 000 to move / relocate existing ceiling air-conditioning units to suit new layout as directed by the Engineer, including making good ceilings.		Item	R60 000	R60 000
9	Add for profit				%
10	Add for general attendance				%
Carried to Collection					R
Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 8 PROVISIONAL AMOUNTS					

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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
	<u>SECTION TWO: INTERNAL RECONFIGURATIONS TO EXISTING MSO BUILDING (3RD FLOOR)</u> <u>BILL NO. 9</u> <u>ELECTRICAL INSTALLATION</u> 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.				
	<u>Section 1: Earthing and bonding</u> 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.			SUM	
1					
2	The contractor shall allow for all items not specifically mentioned above in order to provide a complete working solution as per the specifications			SUM	
	<u>Section 2: Distribution Boards</u> 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			SUM	
3					
	Carried to Collection				
	Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 9 ELECTRICAL INSTALLATION			SUM	
				R	

**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND
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4	Trace circuits, test, make safe, disconnect and re-instate in existing electrical distribution boards			SUM	
5	The contractor shall allow for all items not specifically mentioned above in order to provide a complete working solution as per the specifications			SUM	
<u>Section 3: Cables and Terminations</u>					
<u>Supply deliver to site and store 1000/600 volt Cu / PVC / SWA/PVC/ECC cables. Install, rack, strap and testing of cables as per specification including clamps, ties and cable numbering system. Rates to include for wastage. Contractor will only be reimbursed for installed cable measured on site between terminations. Cable bonding of all Earth Continuity Conductors from the incoming and outgoing cables will be properly crimped into cable lugs and bolted to their respective earth bars</u>					
6	4 mm ² 2c 1000/600 volt Cu / PVC / SWA+ECC/PVC cable + Termination	m	101		
7	4 mm ² 4c Cable 1000/600 volt Cu / PVC / SWA+ECC/PVC cable + Termination	m	1		
8	6 mm ² 2c 1000/600 volt Cu / PVC / SWA+ECC/PVC cable + Termination	m	1		
9	6 mm ² 4c 1000/600 volt Cu / PVC / SWA+ECC/PVC cable + Termination	m	1		
10	10 mm ² 2c 1000/600 volt Cu / PVC / SWA+ECC/PVC cable + Termination	m	1		
11	10 mm ² 4c 1000/600 volt Cu / PVC / SWA+ECC/PVC cable + Termination	m	1		
12	16 mm ² 2c 1000/600 volt Cu / PVC / SWA+ECC/PVC cable + Termination	m	1		
13	16 mm ² 4c 1000/600 volt Cu / PVC / SWA+ECC/PVC cable + Termination	m	1		
14	The contractor shall allow for all items not specifically mentioned above in order to provide a complete workingsolution as per the specifications. All measurable on completion of each installation			SUM	
Carried to Collection				R	
Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 9 ELECTRICAL INSTALLATION					

**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND
TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR
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<u>Section 4: Luminaires and Light Switches</u>					
<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 cable. All luminaires shall be DALI system compatible</u>					
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		
Carried to Collection				R	
Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 9 ELECTRICAL INSTALLATION					

**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND
TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR
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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	
	<u>Section 5: Socket Outlets, Isolators and Power Dock Units</u>				
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		
	<u>Section 6: Hand Dryers</u>				
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	
	Carried to Collection				

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

	Section 7: IT / Data				
34	Data/Telephone/ BMS/CCTV/Printers/ Access Points/ EMS				
35	New Cat 7 Lan Points including 2m Patch / 3m Fly Lead and wall outlet Module.	No	105		
36	Labelling / Testing / Commissioning	No	105		
	Additional				
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. Installation of all Equipment, testing and commissioning Noting: Video and sound Equipment will be provided by ACSA.	No	4		
	Standard Requirements:				
38	All old cabling will need to be removed and replaced with new cabling in their designated locations.			SUM	
39	Adhere to Cable Specification (Orange: Cat7 S-Ftp LSZH 10G 750MHZ)			SUM	
40	Orange - Patch leads is factory terminated and distance specific – minimum slack (Rack).			SUM	
41	Orange factory supplied fly leads is used at work area cabling zones [user end].			SUM	
42	All cables are patched into brush panels into cabinets.			SUM	
43	Labels on patch panel to be visible as per labelling standards.			SUM	
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.			SUM	
45	Patch connectors are positioned correctly into patch panels without any stress on the cable or additional twists– no forcing connectors place.			SUM	
	Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 9 ELECTRICAL INSTALLATION			R	

**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND
TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR
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46	Cable bending not exceeding 35mm radius in fibre and 65mm in copper. 10 x outer diameter for fibre.			SUM	
47	Copper: 24 port panels. Shielded patch panels are used.			SUM	
48	Cables is to be locked in place within a room and outside a room using Velcro			SUM	
49	Shielded keystones where applicable – compulsory where SFTP cables are required.			SUM	
50	Offices: dual port recessed panels fixed against floor trunking [RJ45]. Blanking panels for unused ports			SUM	
51	2x Power cord installed and mounted neatly (Not obstructing air flow) for redundant A & B supply			SUM	
52	Network cables installed and mounted neatly (not obstructing air flow)			SUM	
53	FLUKE Copper test results required for new installations and to be submitted with handover/Sign off.			SUM	
54	Link Runner test to only for troubleshooting and to determine VLAN and Connection.			SUM	
Cable Labelling Standard:				SUM	
<i>a. Size: Medium</i> <i>b. Width: Normal</i> <i>c. Style: Normal</i> <i>d. On server side:</i> <ul style="list-style-type: none"> • “Row#/Cab#/PP#-Port#/SW-Port#” (i.e. R1/Cab2/pp01-p21/GRJ-CR1-SW4-p24) <i>e. On switch side:</i> • “Row#/Cab#/ServerName/nic#” <ul style="list-style-type: none"> • (i.e. R3/Cab4/ELSVMHPEMON1/Nic01 					
Carried to Collection					
Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 9 ELECTRICAL INSTALLATION					

**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND
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<u>Section 8: Power Trunking, Power Skirting, Cable Ladders and Wire Mesh</u>					
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 mech and respective cables in liaison with Engineer and approval			SUM	
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	
<u>Section 9: Fire Detection</u>					
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			SUM	
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		
Carried to Collection				R	
Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 9 ELECTRICAL INSTALLATION					

**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND
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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	
<u>Section 10: Conductors</u>					
<u>600/1 000 V grade PVC installed stranded copper conductor drawn in conduit / wireways</u>					
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 ² conductor	m	20,000		
71	4mm ² conductor	m	10,000		
72	6mm ² conductor	m	400		
73	2.5 mm ² earth conductor	m	10,000		
74	4mm ² earth conductor	m	5,000		
75	6mm ² earth conductor	m	200		
76	The contractor shall allow for all items not specifically mentioned above in order to provide a complete worksolution as per the specifications. All measurable on completion of each installation			SUM	
				R	
Carried to Collection					
Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 9 ELECTRICAL INSTALLATION					

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

	<u>Section 11: Conduits</u>				
	<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>				
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	
	<u>Section 12: Testing, Commissioning and Handover</u>				
86	Test and commission the complete installation + Compliance Certificates, test results and quality documentation.	No	2		
	Carried to Collection			R	
	Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 9 ELECTRICAL INSTALLATION				

**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND
TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR
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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	
				SUM	
88	Provide attendance to Supply Authority Staff and other Contractors during Construction.				
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	
				SUM	
90	12 month maintenance, support and guarantee			SUM	
91	Operations and maintenance manuals				
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.	m2	2	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			R	
Carried to Collection					
Section No. 2 ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR Bill No. 9 ELECTRICAL INSTALLATION					

**AIRPORT COMPANY SOUTH AFRICA (ACSA) ALTERATIONS AND
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Section No. 2				
ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR				
Bill No. 9				
ELECTRICAL INSTALLATION				
<u>COLLECTION</u>				
Total Brought Forward from Page No.		Page No	Amount	
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		35		
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		41		
		42		
		43		
Carried Forward to Summary of Section No.			R	
2				
Section No. 2				
ALTERATIONS AND TENANT FITOUT TO EXISTING				
MULTI STOREY OFFICE BUILDING: 3RD FLOOR				
Bill No. 9				
ELECTRICAL INSTALLATION				

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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	<u>FINAL SUMMARY</u>	Page No		Amount
1	SECTION ONE: PRELIMINARIES	8		
2	SECTION TWO: ALTERATIONS AND TENANT FITOUT TO EXISTING MULTI STOREY OFFICE BUILDING: 3RD FLOOR	45		
	SUB-TOTAL		R	
	CONTINGENCY (10% of Estimated Construction Value)	%	R	
	SUB-TOTAL		R	
	ADD:VAT(15%)		R	
	TOTAL		R	
	Carried to Form of Tender		R	