

C2.2: Pricing Data

KING PHALO AIRPORT

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
SCHEDULE A: ADMINISTRATION COSTS					
	<i>Note to Tenderers: All rates should be inclusive of labour costs to execute works, rates should be inclusive of overhead costs for site establishment , disestablishment, preliminaries and general costs complete and all costs associated with execution and supervision of works.</i>				
	Administration Costs				
1.1	Occupational Health and Safety Compliance – Prepare and maintain a compliant safety file at all times, comply with all legislative and regulated requirements including attending to internal and external Audits	Item	1		
1.2	Occupational Health and Safety Compliance – Provide for proper PPE for all workers	Item	1		
1.3	Insurance Requirements	Monthly	12		
1.4	Mileage for scheduled procurements/tasks required by ACSA	Km's	500		
1.5	ACSA Permits, Including AIT Training (*Paid at proven cost)	Item	1	R 30 000,00	
1.6	Third Party Procurement of Materials (*Paid at proven cost)	Item	1	R 350 000,00	
	CARRIED TO SECTION SUMMARY			R	

Note:

- The Health and Safety will be audited on a continuous basis. The Contractor shall comply with the Occupational Health and Safety Act, and the relevant Regulations.
- Permits and Induction shall be paid at cost and shall be paid post facto. The Contractor shall provide proof of personnel that attended the Induction and received a permit.
- Before a Permit is issued, a Police Clearance will be done. No permit will be granted to persons who are not in good standing with their criminal record.
- Bidders to note that any changes in the staff between permit renewal cycles of 2 years is for the cost of the Contractor.
- The prices above shall include Contract Management and Administration costs (including all required meetings and reporting such as reports, spares inventory management and other documentation relevant to the contractual agreement, etc.). No additional costs shall be paid for contract administration.

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
SCHEDULE C: SPECIALISED SERVICES – RATES ONLY					
	<u>NOTE TO TENDERERS:</u>				
	All rates should be inclusive of Labour costs to execute works, All rates are deemed to be inclusive of overhead costs for site establishment, disestablishment, preliminaries and general costs complete and all costs associated with execution and supervision of works complete.				
	Tenderers are to note that works listed under this section can be carried out during Normal working hours or After Hours as per the discretion of the Project Manager, Tenderers are advised to price accordingly as no additional claims will be accepted/entertained.				
	Tenderers are to note that all materials will sourced separately through third party procurement and paid at a proven cost basis.				
	Tenderers are advised to familiarize themselves with the Model Preambles for Trades before pricing this Bill.				
	<u>PREAMBLES</u>				
	Tenderers are to refer to “ Department of Public Works: Specification of materials and methods to be used -PW 371				
	DEMOLITIONS				
	<u>Supplementary Preambles</u>				
	<u>General</u>				
	The contractor shall carry out the whole of works with as little mess and noise as possible and with minimum of disturbance to adjoining premises and their tenants. Contractor shall provide adequate protection and erect and remove when directed any temporary protection that may be necessary during the progress of the works, all to the satisfaction of the Project Manager.				
	Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectively stopped off or removed and new				

	connections where necessary shall be made with proper fittings.				
	<u>Damage and repairs to existing services:</u>				
	The contractor shall immediately notify the representative/agent and the authorities concerned and shall at his own cost make all necessary arrangements for disconnection and repairs with the relevant authorities and shall pay all fees and charges levied.				
	<u>Demolitions and work on site:</u>				
	All demolitions and work on site must be carried out carefully and in the safest possible manner and the contractor is to make thorough examination and take all necessary precautions before proceeding with the work. The outmost care is to be observed to avoid any structural or other damage in the remaining portions of the existing buildings.				
	Special care must be exercised as to not interfere with any electrical installation, and notice is given to project manager when any disconnections, removal of wire, etc, are necessary				
	<u>Disposal of material:</u>				
	All existing materials specified as “removed and demolished”, “hacked up or off and removed” , “ taken down or off and removed’ or “broken down and removed” etc become the property of the contractor.				
	All existing materials specified to be “taken down and set aside for re-use” or “taken down and set aside” shall remain the property of ACSA and must be cleaned off, stacked on site for inspection by Project Manager before such materials are re-used in works.				
	<u>Breaking down and removing concrete surface beds, paving,etc</u>				
1	60 mm thick brick paving with mortar joints on sand bed	m ²	1		
2	200 mm thick mesh reinforced concrete surface beds	m ²	1		
	<u>Breaking down and removing kerbing etc</u>				
3	200 x 300 mm unreinforced concrete kerbs	M	1		
4	1200 mm Mesh reinforced aprons	M	1		
	<u>Breaking down and removing fences, boundary walls,etc</u>				

5	Palisade security fence, including posts, concrete footings, and bases etc complete, n.e 2,4 m high overall, Including making good where fence removed in preparation for new fence	M	1		
6	Concrete slabs security fence , including posts, concrete footings, bases etc all complete, n.e 3,5 m high overall, Including making good where fence removed in preparation for new fence	No	1		
7	Steel gate size 4,2 x 2,4 m high overall including gate posts, Including making good where posts were removed in preparation for new fence	No	1		
	ALTERATIONS				
	<u>Temporary Barriers, Screens, Etc</u>				
1	18 mm Plywood 5m high temporary free-standing partition between concrete pavers, of suitable timber framing with 375-micron polyethylene sheeting stapled on one side, including corners, ends, etc	M	1		
	<u>Breaking up and removing unreinforced concrete, including cutting off and removing reinforcement</u>				
2	150 mm Thick reinforced surface beds	m ²	1		
3	300 mm Thick reinforced surface beds	m ²	1		
	<u>Breaking down and removing brickwork etc:</u>				
4	Half brick walls	m ²	1		
5	One brick wall	m ²	1		
6	270 mm brick wall	m ²	1		
7	390 mm brick wall	m ²	1		
	<u>Taking out and removing doors, windows, etc from brickwork to be replaced with new doors and frame</u>				
8	Timber single doors and frame size 813 x 2032 mm high from half brick wall including tracks, hangers and all ironmongery	No	1		
9	Timber single doors and frame size 813 x 2032 mm high from 270 mm brick wall including tracks, hangers and all ironmongery	No	1		
10	Timber single doors and frame size 813 x 2032 mm high from Drywall partition including tracks, hangers and all ironmongery	No	1		

11	Aluminium single doors and frame size 813 x 2032 mm high from 270 mm brick wall including tracks, hangers and all ironmongery	No	1		
12	Aluminium double doors and frame size 2400 x 2500 mm high from 270 mm brick wall including tracks, hangers and all ironmongery	No	1		
13	Glazed timber window 1200 x 1800 mm high from 270 mm brick wall, including steel burglar bars bolted to walls	No	1		
14	Glazed steel window 1200 x 1800 mm high from 270 mm brick wall including tracks,hangers and all ironmongery	No	1		
15	Aluminium windows 1200 x 1800 mm high from 270 mm brick wall including tracks,hangers and all ironmongery	No	1		
	<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>				
16	Metal roof covering and timber purlins	m ²	1		
17	Fascias and Barge boards	M	1		
18	Asbestos gutters by specialist contractor	M	1		
19	Aluminium gutters	M	1		
20	PVC gutters	M	1		
21	Asbestos downpipes including all fittings and accessories	No	1		
22	Aluminium downpipes including all fittings and accessories	No	1		
23	PVC downpipes including all fittings and accessories	No	1		
24	Suspended ceiling panel	No	1		
25	Suspended ceilings	m ²	1		
26	Nailed up gypsum ceilings	m ²	1		
27	Drywall partitions not exceeding 3,2m high, including doors, windows, glazed borrowed lights, etc	M	1		
	<u>Taking out and removing sundry joinery fittings,etc</u>				
28	Timber skirtings	M	1		
29	Timber wall cupboard 1200 x 600 x 900 mm high and repair wall surface	No	1		
30	Timber sink cupboard 2400 x 600 x 900 high, including countertop, sink, disconnecting waste pipe, repairing floor and wall face	No	1		
31	Timber wall cupboard 4200 x 600 x 900 mm high and repair wall surface	No	1		

32	Reception counter including frame 2730 x 1500 mm high, including making good face of brickwork	No	1		
	<u>Taking up and removing wood block floor coverings, vinyl floor coverings, carpets, etc and Preparing screeds for new floor coverings</u>				
33	Ceramic Tiles	m ²	1		
34	Porcelain Tiles	m ²	1		
35	Carpets	m ²	1		
36	Carpet Tiles	No	1		
37	Vinyl Tiles	m ²	1		
	<u>Taking out and removing Ironmongery</u>				
38	Mortice lockset from timber door	No	1		
39	Door lock	No	20		
40	Door Handle	Pairs	20		
41	Hinges	Pairs	1		
42	Towel rail not exceeding 2m long from wall	No	1		
43	Toilet roll holder	No	1		
44	Soap Dispenser	No	1		
45	Shower Head	No	1		
	<u>Taking out and removing sundry metalwork</u>				
46	Steel burglar proofing complete size 3000 x 2100 mm	No	1		
47	Mild steel single door Frame for 813 x 2032 high door	No	1		
	<u>Hacking off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u>				
48	30 mm screed from floors	m ²	1		
49	Internal plaster from walls and columns	m ²	1		
50	External plaster from walls, columns and beams	m ²	1		
51	Skim plaster to ceilings	m ²	1		
	<u>Taking out and removing piping, sanitary fittings, etc including cutting off as necessary, disconnecting piping from fittings, brackets and making good floor and wall finishes</u>				
52	110 mm PVC bent access pan connector	No	1		
53	Vitreous china wash hand basin complete, including short lengths of piping, traps, fittings etc	No	1		

54	Vitreous china water closet complete, including, fittings, flush pipe, water pipes, etc	No	1		
55	Vitreous china wall hung urinal complete, including short lengths of piping, traps, fittings etc	No	1		
56	Geysers complete with fittings, trays, piping, necessary disconnections etc	No	1		
57	Flush Master	No			
	<u>Taking out and removing glass and mirrors</u>				
58	Glass from windows, sliding doors etc, including cleaning out rebates and preparing for new glass	m ²	1		
60	Mirror on wall, including making good wall	No	1		
	<u>Sundries</u>				
61	Cutting toothings and bonding new brickwork to existing	m ²	1		
	<u>Making good face brickwork</u>				
62	Ends of 270 mm cavity brick walls	M	1		
	Ends of 390 mm cavity brick walls	M	1		
	<u>Making good internal cement plaster</u>				
62	Walls where half brick walls removed	m ²	1		
63	Walls where One brick wall removed	m ²	1		
64	Walls where 270 mm brick walls removed	m ²	1		
65	Walls where 390 mm brick walls removed	m ²	1		
	<u>Openings Through existing walls etc</u>				
66	Altering opening in 270 mm brick wall where window is removed to form opening for new aluminium window overall including necessary brickwork, precast concrete lintol, waterproofing and making good plaster on both sides (new window and making good paintwork elsewhere)	No	1		
67	Altering opening in 390 mm brick wall where window is removed to form opening for new aluminium window overall including necessary brickwork, precast concrete lintol, waterproofing and making good plaster on both sides (new window and making good paintwork elsewhere)	No	1		
	<u>Breaking out and forming openings through brick walls for new doors and frames, including prestressed concrete lintels, making good cement plaster on both sides and into reveals and with 20</u>				

	<u>Mpa concrete thresholds with steel trowelled finish (new doors and frames and making good paintwork elsewhere)</u>				
68	Opening for door with timber frames 813 x 3021 mm high overall through 270 mm brick wall	No	1		
69	Opening for aluminium door and frame 2400 x 2465 mm high overall through 270 mm brick wall	No	1		
70	Opening for door with timber frames 915 x 2125mm high overall through 390 mm brick wall	No	1		

	EARTHWORKS (PROVISIONAL)				
	The tenderer is referred to the relevant clauses in the separate document Model Preambles for trades (1999 Edition) and to the supplementary preambles which are incorporated at the front of these Bills of Quantities.				
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	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Proprietary products in descriptions:</u>				
	Propriety products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the service manager				
	<u>Carting away of excavated material:</u>				
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site.				
	<u>Dewatering of excavations:</u>				
	The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water				
	<u>SITE CLEARANCE</u>				
	<u>Site clearance etc:</u>				

1	Digging up and removing rubbish, debris, vegetation. hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m ²	1		
	BULK EXCAVATION, FILLING, ETC (PROVISIONAL)				
	<u>Excavation in earth not exceeding 2m deep:</u>				
2	Trenches	m ³	1		
3	Holes	m ³	1		
	<u>Extra over all excavations for carting away:</u>				
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m ³	1		
	<u>Risk of collapse of excavations:</u>				
5	Sides of trench and hole excavations not exceeding 1,5m deep.	m ²	1		
	<u>Keeping excavations free of water:</u>				
6	Keeping excavations free from mud and all water including subterranean sources.	Item	1		
	FILLING, ETC.				
	<u>Earth filling obtained from the excavations and / or prescribed stock piles on site compacted to 93% Mod. AASHTO density:</u>				
7	Backfilling to trenches, holes, etc.	m ³	1		
	<u>Imported natural G4 Gravel compacted to 95% Mod AASHTO density in maximum 150mm thick layers at optimum moisture content:</u>				
8	Under floors, steps, pavings, etc.	m ³	1		
	<u>150mm insitu material, supplied and carted onto the site by the Contractor, compacted to 90% modified AASHTO under solid floors.</u>				
9	Under floors, steps, pavings, etc.	m ³	1		
	<u>Compaction of surfaces:</u>				
10	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density.	m ²	1		
	CONCRETE, FORMWORK AND REINFORCEMENT				

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	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Proprietary products in descriptions:</u>				
	Propriety products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the service manager				
	<u>Cost of tests:</u>				
	The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Project Manager. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Project Manager. (Test cubes are measured separately).				
	<u>Formwork:</u>				
	<p>Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. Formwork to sides of bases, pile caps, ground beams, etc., will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk</p>				

	of collapse of the sides of the excavations, provision for which is made in Earthworks.				
	<u>UNREINFORCED CONCRETE</u>				
	<u>10MPa/19mm concrete:</u>				
1	Surface blinding under footings, bases and holes etc	m ³	1		
	<u>REINFORCED CONCRETE</u>				
	<u>25MPa/19mm concrete:</u>				
2	Strip footing	m ³	1		
3	Bases	m ³	1		
4	Slabs	m ³	1		
	<u>30MPa/19mm concrete:</u>				
5	Columns	m ³	1		
6	Beams	m ³	1		
7	Slabs, including beams and inverted beams	m ³	1		
	<u>CONCRETE TESTS</u>				
	<u>Test blocks:</u>				
8	Making and testing set of three 150x150x150mm concrete strength test cubes (Provisional).	No	1		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a power float</u>				
9	Surface beds, beams, slabs, etc	m ²	1		
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>				
	<u>Smooth formwork to sides and soffits:</u>				
10	Edges, risers, ends and reveals not exceeding 300mm high or wide circular exceeding 1m radius.	M	1		
11	Rectangular columns with total height exceeding 3.5m and not exceeding 5m above bearing level	m ²	1		
12	Beams propped up exceeding 2.5m not exceeding 3.5m high	m ²	1		
13	Beams propped up exceeding 3.5m not exceeding 5m high	m ²	1		
	<u>MOVEMENT JOINTS ETC</u>				
	<u>Two layers of 375 micron "Consol Plastic Brickgrip DPC" in slip joints between horizontal concrete and</u>				

	<u>brick surfaces, including cement mortar bed</u>				
14	Not exceeding 300mm wide	M	1		
	<u>"Sondor" or similar approved expansion joints with "Jointex" softbaord between concrete and brick surfaces</u>				
15	10mm Vertical isolation joints not exceeding 300mm high with 10mm pull out strip to surface beds	M	1		
	<u>"Sondor" or similar approved expansion joints with "Jointex" softboard between horizontal concrete surfaces</u>				
16	20mm Joints exceeding 300mm high or wide	M	1		
	REINFORCEMENT (PROVISIONAL)				
	<u>High tensile steel reinforcement to structural concrete work</u>				
17	10mm Diameter bars	T	1		
18	12mm Diameter bars	T	1		
19	16mm Diameter bars	T	1		
	MASONRY				
	The tenderer is referred to the relevant clauses in the separate document Model Preambles for trades (1999 Edition) and to the supplementary preambles which are incorporated at the front of these Bills of Quantities.				
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	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Proprietary products in descriptions:</u>				
	Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Service Manager				
	<u>Sizes in descriptions:</u>				
	Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick.				
	<u>Face bricks:</u>				
	Bricks shall be ordered timeously to obtain uniformity in size and colour.				
	<u>Pointing:</u>				

	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.				
	Samples, etc:				
	Rates for brickwork, faced brickwork, etc shall include for all required samples.				
	BRICKWORK IN SUPERSTRUCTURE				
	<u>Brickwork of "Corobrik or similar approved" NFX burnt clay bricks (14 MPa nominal compressive strength) in class I mortar</u>				
1	Half brick walls	m ²	1		
2	One Brick wall	m ²	1		
3	270mm Hollow walls of two half brick skins including wire ties	m ²	1		
4	330mm brick walls of three half brick skins	m ²	1		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Builders work in connection with services in Brick walls (form hole including making good).</u>				
5	Holes for pipes, ducts, etc n.e 0.1m2	No	1		
	<u>Brickwork reinforcement:</u>				
6	75mm Wide reinforcement built in horizontally	M	1		
7	150mm Wide reinforcement built in horizontally	M	1		
	<u>Prestressed fabricated lintels:</u>				
8	110 x 75mm Lintels in lengths not exceeding 3m.	M	1		
9	110 x 75mm Lintels in lengths exceeding 3m not exceeding 4.5m	M	1		
10	150 x 70mm Lintels in lengths not exceeding 3m	M	1		
11	150 x 70mm Lintels in lengths exceeding 3m not exceeding 4.5m	M	1		
12	<u>Fibre-cement natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc:</u>				
13	15 x 150mm Wide sills set sloping and slightly projecting.	M	1		
	<u>FACE BRICKWORK</u>				
	<u>"Corobrik Golden Wheat Travertine or similar approved" FBX clay face bricks bedded and jointed in Class 1 cement mortar and pointed with recessed vertical and horizontal joints</u>				

14	Extra over for brickwork for facebrick.	m ²	1		
	<u>Brick-on-edge header course copings, sills, etc of "Corobrik Golden Wheat Travertine or similar approved" face bricks pointed with recessed joints on all exposed faces</u>				
15	270mm Coping on top of half brick walls	M	1		
16	150mm Wide sills set slightly sloping and projecting	M	1		
	<u>ROOF COVERINGS</u>				
	The tenderer is referred to the relevant clauses in the separate document Model Preambles for trades (1999 Edition) and to the supplementary preambles which are incorporated at the front of these Bills of Quantities.				
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	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Proprietary products in descriptions:</u>				
	Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Service Manager				
	Fixing:				
	Fixing shall be done according to SABS 1200HB with minimum 225mm end laps.				
	Guarantee:				
	The contractor will be required to provide a written guarantee, stating that :1. The roof sheeting is of the specified thickness.2. The client is indemnified against any defects, including colour deterioration for a minimum period of 15 years.				
	Pricing:				
	Prices for roof covering and cladding are to include for all necessary drive screws, hook bolts, sheet bolts, nuts, washers, etc., for drilling holes for screws and bolts including removing all swarf from the sheeting and all right angle cutting and waste (Measured net).				
	<u>0.50mm thick saflok 700 colorplus AZ150 interlocking roof sheeting as per manufacturer's specification on 75 x 50mm timber purlins at 1200mm maximum centres on</u>				

	<u>114 x 38mm timber trusses at maximum 1400mm centres.</u>				
1	Roof covering with pitch not exceeding 25 degrees, in transportable lengths not exceeding 20m.	m ²	1		
2	Moulded narrow and broad rib polyethylene filler blocks	M	1		
3	Ridge capping, 408mm girth	M	1		
4	Valley, 337mm girth	M	1		
5	Side wall flashing, 408mm girth	M	1		
	<u>1.25mm IBR Chromadek thick translucent " Bronze 50" Polycarbonate and accessories fixed to timber purlins or rails</u>				
6	Roof covering with pitches not exceeding 25 degrees	m ²	1		
	CARPENTRY AND JOINERY				
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	<u>SUPPLEMENTARY PREAMBLES</u>				
	Propriety products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the service manager				
	<u>Joinery:</u>				
	Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc				
	Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes. of hardwood joinery shall be deemed to include pelleting of bolt holes.				
	<u>Eaves, Verges, Etc</u>				
1	225 x 12mm thick fascia boards, fixed to roof trusses(e/m) with corrosion proof gutter bolts at maximum 900 mm centres butt jointed with and including standard fascia jointing plates at all joints	M	1		

2	225 x 12mm thick barge boards, screwed to timber spacer with brass screws complete with barge board joiner and accessories	M	1		
3	"Eaves soffit coverings 450mm wide of 4mm thick sheets, including 38 x 38mm sawn softwood brandering along edges, along centre and at 1.20m centres across sheets"	m ²	1		
	<u>Skirtings</u>				
4	"19 x 150mm Moulding Skirting fixed to wall including 19mm quadrant bead planted on."	M	1		
	<u>Doors</u>				
5	4mm Thick, single flush door, semi solid core door, size 900 x 2125 mm high (D8)	No	1		
6	44mm Custom framed, ledged, braced sliding door, size 1720 x 2465 mm high of 40 mm wide top rail and stiles, 40 mm middle ledge and braces and 40 mm bottom ledge. (ND1)	No	1		
7	44mm Custom framed, ledged, braced sliding door, size 1500 x 2125 mm high of 40 mm wide top rail and stiles, 40 mm middle ledge and braces and 40 mm bottom ledge. (ND2)	No	1		
8	44mm Custom framed, ledged, braced sliding door, size 1400 x 2125 mm high of 40 mm wide top rail and stiles, 40 mm middle ledge and braces and 40 mm bottom ledge. (ND4)	No	1		
9	44mm Custom framed, ledged, braced sliding door, size 915 x 2125 mm high of 40 mm wide top rail and stiles, 40 mm middle ledge and braces and 40 mm bottom ledge. (ND3)	No	1		
10	44 mm Thick single solid timber louver door horizontal slats, size 1100 x 2125 mm high (ND5)	No	1		
11	44 mm Thick single solid timber louver door horizontal slats, size 900 x 2125 mm high (ND6)	No	1		
12	44 mm Thick single solid timber door with horizontal slats, size 900 x 2125 mm high (ND7)	No	1		
	<u>Framed Frames, Etc</u>				
13	43 x 86 mm Hardwood timber frame	M	1		
	CEILINGS				

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	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Proprietary products in descriptions:</u>				
	Propriety products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the service manager				
	<u>Descriptions:</u>				
	Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete				
	Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as bolted, the bolts must be given				
	<u>Nailed up Ceilings</u>				
	<u>12.5mm "Rhino" gypsum plasterboard with 63mm wide strips of mesh scrim nailed over joints and the whole finished with skim plaster trowelled to a smooth polished surface</u>				
1	Ceiling including 38x38mm SA pine bandering at 600mm centres	m ²	1		
	<u>Suspended Ceilings</u>				
	<u>12 mm Jumbo plasterboard fixed onto flush-plastered, steel hanger and grid system by pelican systems</u>				
2	Ceilings Suspended not exceeding 1 meters	m ²	1		
3	Extra over ceilings for 650 x 650 mm trap doors	No	1		
	<u>9 mm Jumbo plasterboard fixed onto flush-plastered, steel hanger and grid system by pelican systems</u>				
4	Ceilings Suspended not exceeding 1 meters	m ²	1		
5	Extra over ceilings for 650 x 650 mm trap doors	No	1		
	<u>600 x 600mm Suspended Ceiling Panels</u>				

6	Lafarge ceiling grid system exposed face 24mm tee suspended ceiling grid system with white capped main tee's spaced at 1200mm and cross tee's at 600mm between them all in accordance with (SABISA) installation guidelines	No	1		
	<u>Sundries</u>				
7	Extra over for forming opening in 600 x 600mm suspended ceiling panel for ventilator	No	1		
8	Extra over for forming opening in 600 x 600mm suspended ceiling panel for light fitting	No	1		
9	Extra over for forming opening in 600 x 600mm suspended ceiling panel for air conditioner	No	1		
10	Extra over ceiling for making and forming holes for down lights, sprinkler heads, fire detector unit, etc not exceeding 150mm diameter	No	1		
	<u>CEILING TIMBERS, BEADS, INSULATION, ETC</u>				
	<u>Aerolite Insulation:</u>				
11	2 layers of 50mm thick fibre-glass blanket laid on top of ceiling brandering between roof timbers, etc (at approximate centres).	m ²	1		
	<u>Shadow Line Cornice</u>				
12	Shadowline cornice to nailed up ceilings	M	1		
	<u>PARTITIONS</u>				
	<u>"Rhino-Drywall System " steel stud partitioning with "12mm thick Rhino Wallboard" on both sides including skirtings and top track all as per manufacturers specifications</u>				
13	Partitioning 2 600mm high with bottom and top tracks plugged	M	1		
14	Partitioning 2 900mm high with bottom and top tracks plugged	M	1		
15	Partitioning 3 500mm high with bottom and top tracks plugged	M	1		
	<u>"Vitraflex" or similar approved toilet partitioning with 20mm thick vitreous enamelled steel sheet faced particle board bonded panels and natural anodised aluminium edging and top rails including fixing components and standard ironmongery comprising indicator bolts, coat,</u>				

	<u>hooks and door stops, toilet roll holders and rubber buffers</u>				
16	Partition 1 700 x 2 000mm high.	m ²	1		
17	Door 700 x 2 000mm high	No	1		
	FLOOR COVERINGS				
	Tenderers are to note that all materials will sourced separately through third party procurement and paid at a proven cost basis.				
	<u>Vinyl Tiles</u>				
	<u>2mm " Marley " fully flexible vinyl tiles (or equal approved)</u>				
1	On floors	m ²	1		
2	On treads and risers of stairs	m ²	1		
3	Turn-ups over coves and up against walls not exceeding 300mm girth	m ²	1		
	<u>2mm" Marley HD" fully flexible vinyl sheeting for floors (or equal approved)</u>				
4	On floors	m ²	1		
5	On treads and risers of stairs	m ²	1		
6	Turn-ups over coves and up against walls not exceeding 300mm girth	m ²	1		
	<u>Carpet Tiles</u>				
	<u>500 x 500 mm Bolgotex tiles, similar approved colours may be used to architects approval. "FLOORPAINT EARTH" made from 100% Aquafil BCF Nylon 6 Fibre in heavy commercial by Van Dyk Carpets</u>				
7	On floors	m ²	1		
	<u>Athena Woven Vinyl Tiles by Van Dyk Carpets in 500 x 500 mm size with an overall thickness of 3 mm , including self leveling screed fitted in accordance with the suppliers installation instructions</u>				
8	On floors	m ²	1		
	IRONMONGERY				
	The tenderer is referred to the relevant clauses in the separate document Model Preambles for trades (1999 Edition) and to the supplementary preambles which				

	are incorporated at the front of these Bills of Quantities.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	Propriety products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the service manager				
	Finishes to ironmongery:				
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CP Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded Fixing:				
	Descriptions of wall mounted and floor standing ironmongery items shall be deemed to include for fixing in position and all fixing accessories				
	Descriptions of proprietary items shall be deemed to include fixing in position and all fixing accessories				
	<u>Hinges</u>				
1	102 x 75 x 2mm Stainless Steel ball bearing butt hinge.	Pairs	1		
	<u>Floor Springs</u>				
2	Dorma' BTS75 Adjustable size EN 1- 4 non hold open with single action accessories for 120 kg door. Including sealing compound applied to floor springs	Sets	1		
	<u>Locks</u>				
3	66 mm five pin Euro-profile Double Cylinder Master Keyed code 'DD106601 MK'	No	1		
4	Round cylinder escutcheon code " DCE-002 S.S"	Pairs	1		
5	Cylinder Deadlock code " D037D SS " with case dimensions 116,5mm High x 78 mm depth including for	No	1		

	end dimensions 168 mm high x 22 mm wide and back set 57 mm				
6	Cylinder Sash lock code " D036S SS " with case dimensions 116,5mm High x 78 mm depth including for end dimensions 168 mm high x 22 mm wide and back set 57 mm	No	1		
7	Sliding Door Lock code DSL 401	No	1		
8	Alufab M 1519N 150 mm Aluminium flash Bolt	No	1		
9	Bathroom Deadlock code DMWC-006	No	1		
10	Disabled WC indicator (Red & White) and turnknob code DWC-006	No	1		
	<u>Handles</u>				
11	Lever handle on plate with Cylinder cutout code CB30 Cyl S.C	Sets	1		
12	325 x 25 mm Straight tubular pull handle flange fixing code DPH301 B	Pairs	1		
13	200 x 22 mm Straight tubular pull handle code DPH209 BTB Including Fixing sets	Pairs			
	<u>Sundries</u>				
14	150 x 300 x 1.2 mm thick Grade 430 stainless steel plate to have 6 countersunk holes for screw fixing. Code DPP-430-BL-SL 150 x 300	No	1		
15	200 x 813 x 1.2 mm thick Grade 430 stainless steel plate to have 8 countersunk holes for screw fixing. Code DPP-430-BL-SL 200 x 813 mm	No	1		
	<u>Catches, Cabin Hooks, Etc</u>				
16	200 mm SC on brass cabin hook and eye with 100 x 100 x 75 mm chamfered wrot meranti block	No	1		
	<u>Push and Kicking Plates</u>				
17	813 mm Wide x 200 mm high x 1,2 mm tick brushed stainless steel 430 grade kick plate full width of door leaf. Stainless steel kick plate to have 10 countersunk holes for screw fixing. Code DKP-430-SF 200	No	1		
	<u>Door Closers</u>				
18	TS73V DC - SL EN 2-4 Regular arm delayed action door closure. Pull side fixing EN2 750-850, EN3 850-950, and EN4 950-1100. Door closure to be installed on pull side	No	1		
19	Floor mounted door stop code DDS-SS-017	No	1		

20	600 mm Alufab Extention Rod Code H469	No	1		
21	Dust proof strike code DPS-SS-032	No	1		
	<u>Sliding Gear</u>				
22	S.A sliding systems code BARN/21/bl barndoor kit 250kg in colour black	No	1		
	<u>Bathroom Fittings</u>				
23	Stainless steel soap dispenser 1,250 ml soap capacity lockable Grade 304 Stainless casing (0,8 mm thick) with satin finish with manual top-up of soap reservoir. Brass pump mechanism can also dispense lotions and shampoos	No	1		
24	Brushed Stainless steel toilet roll holders with sight inspection hole. Holding 3 toilet rolls and lockable samples to be presented to architect for approval	No	1		
25	310 x 175 x 500 mm stainless steel wall mounted bin 27 litres with half-moon round	No	1		
26	Brushed Stainless steel Finish 241 wide x 322 high x 170 depth, 3 x faster hand drying - 20,000 rpm motor speed 10 to 15 seconds drying time. SABS/NRCS approved	No	1		
	<u>Dorma</u>				
27	800 x 800 mm Flush valve back rail code DGR-SS-151	No	1		
28	300 x 300 x 300 mm side grab rail code DGR-SS-152	No	1		
29	300 mm x 95 mm x 32 mm diameter straight grab rail fixed onto doors by screws as provided by manufacturer as per sanitary schedule	No	1		
	<u>Letters, Nameplates, Etc</u>		1		
30	150 x 150mm Disabled sign code DSS-133 P	No	1		
31	150 x 150mm Female sign DDS-SS-017	No	1		
32	150 x 150mm Male sign DDS-SS-130M	No	1		
33	Wall mounted adjustable LED - lit exit sign as per signage plan	No	1		
34	Wall mounted natural anodised aluminium exit sign as per signage plan	No	1		
35	SABS approved 9 kg carbon dioxide fire extinguisher sign as per signage plan	No	1		
36	SABS approved 9 kg carbon dioxide fire extinguisher sign as per signage plan	No	1		

37	"50 x 500 x 3mm Thick perspex plate with five 40mm high engraved and painted letters or numerals"	No	1		
38	"50 x 500 x 3mm Thick perspex plate with six 40mm high engraved and painted letters or numerals"	No	1		
39	"50 x 500 x 3mm Thick perspex plate with eight 40mm high engraved and painted letters or numerals"	No	1		
40	"50 x 500 x 3mm Thick perspex plate with nine 40mm high engraved and painted letters or numerals"	No	1		
	<u>Hanging Signs</u>				
41	1440 x 490 mm high signage	No	1		
	<u>Writing Boards</u>				
42	Board size 1800 x 900 mm	No	1		
	<u>Pinning Boards</u>				
43	Board size 1200 x 1200 mm	No	1		
44	Board size 1800 x 900 mm	No	1		
	STRUCTURAL STEELWORK (PROVISIONAL)				
	<u>BALUSTRADES ETC</u>				
	<u>Stainless steel welded and bolted patent balustrades fixed to floors and walls.</u>				
1	Horizontal balustrades 1100mm high of 65mm diameter continuous top and bottom rails and 65mm diameter posts, all complete and fixed to floors and walls.	m	1		
2	Extra over for short radius bend	No	1		
3	Extra over for long radius bend	No	1		
4	Extra over for 90 degree bend	No	1		
5	Extra over for 60 degree ramp return bend	No	1		
6	Extra over for end closure to horizontal balustrade	No	1		
7	Extra over for end closure to raking balustrade	No	1		
	METALWORK				
	The tenderer is referred to the relevant clauses in the separate document Model Preambles for trades (1999 Edition) and to the supplementary preambles which are incorporated at the front of these Bills of Quantities.				

	<u>SUPPLEMENTARY PREAMBLES</u>				
	Descriptions of bolts shall be deemed to include nuts and washers				
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete				
	Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described				
	<u>NOTE: All steel will be Hot dipped galvanised unless otherwise stated</u>				
	<u>GALVANISED PRESSED STEEL DOOR FRAMES</u>				
	<u>1.6mm Mild steel single rebated frames suitable for half brick walls</u>				
1	Frame for door 813 x 2032mm high	No	1		
	<u>Aluminium edging strip</u>				
2	Between floors	M	1		
	<u>ALUMINIUM WINDOWS, DOORS ETC</u>				
	All windows to be approved by the Architect prior to installation.				
	Windows to be glazed to SANS min. standards - 4mm clear glass in panes smaller than 1500mm square millimetres, 5mm clear glass in panes smaller than 2100 square millimetres, 6 mm clear glass in panes smaller than 3200 square millimetres and 6mm safety glass for panes lower than 900mm above FFL (fit obscure glazing in toilets and ablutions). All to SANS standards and Project managers approval. Standard window furniture complete with screws and bolts installed strictly according to AAAMSA standards and specifications.				
3	Burglar bars shall be 5 x 20mm flat horizontal bars to all sections spaced at 150mm apart.	M	1		
	<u>WINDOWS</u>				
	<u>All aluminium units to comply with AAAMSA standards concerning sections and sizes and to be silver anodised with 4mm thick laminated tinted safety glass, complete with subframes, ironmongery, glass, sealing, including burglar bars by manufacturer etc and fixing to brickwork.</u>				
4	Silver anodized aluminium window size 1800 x	No	1		

	1200mm high, including burglar bars by manufacturer				
5	Silver anodized aluminium window size 1800 x 900mm high, including burglar bars by manufacturer	No	1		
	<u>DOORS</u>				
	<u>All aluminium units to comply with AAAMSA standards concerning sections and sizes and to be Silver anodised with 6mm thick safety glass laminated tinted safety glass, complete with subframes, ironmongery, glass, sealing and fixing to brickwork.</u>				
6	Door size 900 x 2100 mm high	No	1		
7	Double sliding door with fanlight 3000 x 2380 mm high	No	1		
8	Double door with fanlight 1800 x 2380mm high	No	1		
9	Double door with fanlight 1350 x 2380mm high	No	1		
	<u>ALUMINIUM SHOPFRONTS</u>				
	<u>All aluminium units to comply with AAAMSA standards concerning sections and sizes and to be Silver anodised with 6mm thick safety glass laminated tinted safety glass, complete with subframes, ironmongery, glass, sealing and fixing to brickwork.</u>				
10	Purpose made shopfront 3600 x 3230mm high including double door	No	1		
11	Purpose made shopfront 3600 x 2380mm high including double door	No	1		
	<u>GALVANISED MILD STEEL, HANDRAILS, BALUSTRADES, ETC</u>				
12	BURGLAR PROOFING	No	1		
	PLASTERING				
	The tenderer is referred to the relevant clauses in the separate document Model Preambles for trades (1999 Edition) and to the supplementary preambles which are incorporated at the front of these Bills of Quantities.				
	Tenderers are to note that all materials will sourced separately through third party procurement and paid at a proven cost basis.				
	<u>SUPPLEMENTARY PREAMBLES</u>				

	Propriety products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the service manager				
	<u>SCREEDS</u>				
	3:1 Cement plaster screeds steel trowelled on concrete:				
1	30 mm Thick on floors	m ²	1		
	<u>INTERNAL PLASTER</u>				
	1:4 Cement plaster screeds steel trowelled on brickwork:				
2	Internal On Walls	m ²	1		
3	On narrow widths not exceeding 300mm wide	M	1		
	<u>EXTERNAL PLASTER</u>				
	1:4 Cement plaster screeds steel trowelled on brickwork:				
4	External On Walls	m ²	1		
5	On narrow widths not exceeding 300mm wide	M	1		
	<u>ON CEILINGS</u>				
	Rhinolite skim plaster 20mm thick with smooth trowel finish				
6	On ceilings	m ²	1		
	TILING				
	The tenderer is referred to the relevant clauses in the separate document Model Preambles for trades (1999 Edition) and to the supplementary preambles which are incorporated at the front of these Bills of Quantities				
	Tenderers are to note that all materials will sourced separately through third party procurement and paid at a proven cost basis.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	Propriety products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the service manager				
	Fixing:				
	Tiling shall be fixed with an approved tile adhesive to a plaster backing. Plaster backing is elsewhere measured. A diamond blade with angle grinder must be strictly used to trim/cut any tiling to shape. All in accordance to service managers specifications.				

	Samples:				
	Samples off all items must be presented for approval prior to any bulk orders. Adequate notice must be given to the service manager for approval of samples. All samples must remain on site for the duration of the contract.				
	WALL TILING				
1	On walls	m ²	1		
2	On walls (Where affected area <1m2)	No	1		
3	On walls in splashbacks	m ²	1		
4	On Walls in splashbacks (Where affected area <1m2)	No	1		
5	Cut and fit tiles around WC pan	No	1		
6	On walls in narrow widths not exceeding 300mm	M	1		
7	Replace and Repair tile grout to match existing	M	1		
	FLOOR TILES				
8	On floors	m ²	1		
9	On floors (Where affected area <1m2)	No	1		
10	On floors in narrow widths not exceeding 300mm	M	1		
11	Replace and repair tile grout to match existing	M	1		
	SUNDRIES				
12	Replace and repair tile edging (aluminium / PVC)	M	1		
	PLUMBING AND DRAINAGE (PROVISIONAL)				
	The tenderer is referred to the relevant clauses in the separate document Model Preambles for trades (1999 Edition) and to the supplementary preambles which are incorporated at the front of these Bills of Quantities				
	Tenderers are to note that all materials will sourced separately through third party procurement and paid at a proven cost basis.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	Propriety products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the service manager				
	Copper pipes:				
	Pipes shall be hard drawn and half-hard pipes of the				

	class stated. 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.				
	Chasing:				
	Chasing pipes into new walls shall be regarded as "building in" and is not measured separately. The cost of chasing, wrapping in suitable bown paper and making good shall be included in the rates for pipes.				
	Holes for pipes through new walls:				
	No allowance for holes and drilling for pipes through new walls has been made in these bills of quantities, the price for all holes and making good shall be deemed to be included in the description of pipes.				
	Reducing fittings:				
	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 claim for extra bushes, reducers, etc will be entertained.				
	Laying, backfilling, bedding, etc of pipes:				
	Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB: Earthworks (Pipe trenches) Clause 5.7.2 will only be applicable if authorised by the Engineer in writing.				
	Flush pans:				
	Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary.				

	Stainless steel basins, sinks, wash troughs, urinals, etc:				
	Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.				
	Fixing:				
	Descriptions of wall mounted, floor standing, drop-in, etc type sanitary fittings shall be deemed to include fixing in position and all fixing accessories.				
	Descriptions of proprietary items shall include fixing in position and all fixing accessories as specified by the manufacturer.				
	Waste unions:				
	Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.				
	<u>RAINWATER DISPOSAL:</u>				
	<u>"Waterlite" or similar approved aluminium:</u>				
1	150mm Wide box eaves gutter fixed to fibre-cement fascia board as described.	M	1		
2	Extra on eaves gutter for stopped end.	No	1		
3	Extra on eaves gutter for external angle.	No	1		
4	Extra over for shoe.	No	1		
5	Extra over for bend.	No	1		
6	Extra on eaves gutter for outlet with nozzle for and joint 100mm diameter square rainwater pipe, including galvanised wire balloon grating.	No	1		
7	100mm Diameter square rainwater pipe fixed to walls.	M	1		
	SANITARY FITTINGS				
	<u>"Vaal" or similiar approved:</u>				
8	450 X 350mm "Midi Weaver" rectangular surface mounted basin with one tap hole (code 706601) to come complete with all sanitary fittings and pipes bolted onto wall by 2 x 10mm bolt basin clicker slotted waste to be installed. Similar products will be approved to Project managers discretion.	No	1		
9	335 X 290mm "Mini Weaver" rectangular surface mounted basin with one tap hole (code 706600) to come complete with all sanitary fittings and pipes bolted onto wall by 2 x 10mm bolt basin clicker slotted waste to be		1		

	installed. Similar products will be approved to Project managers discretion.	No			
10	Vitreous china "Entice" close coupled (Code 772663) 90 degree outlet closed rim wash down pan and matching 6 litre bottom entry top dual flush cistern complete with lid, fitments and quality thermoset seat to come complete with all sanitary fittings as provided by manufacturer. The suite is designed to flush effectively on 6 litres. Similar products will be considered at Project managers discretion.	No	1		
	<u>'Franke (t/a Citimetal)' grade 304 (18/10) stainless steel catering ware or similar approved:</u>				
11	"FRANKE " Cascade CDX621-120 inset sink, including all necessary fittings and installation. Similar products will be approved to architects discretion.	No	1		
12	Rondo RDX610-48 inset sink, including all necessary fittings and installation. Similar products will be approved to architects discretion.	No	1		
	<u>WASTE UNIONS ETC</u>				
	Waste unions etc:				
13	32mm Code 301 chrome plated basin waste union.	No	1		
14	40mm Code 316 chrome plated unslotted bath or sink waste union.	No	1		
	<u>TRAPS ETC</u>				
15	32mm Cobra Watertech chrome plated deep seal bottle trap with outlet for 50mm PVC (Code 345/50).	No	1		
16	40mm Chrome plated deep seal bottle trap with outlet for 50mm PVC (code 365/50).	No	1		
	<u>TAPS, VALVES, ETC</u>				
	<u>Single lever sink mixer:</u>				
17	Single lever plain basin mixer (115.0193.183) with temperature control cartridge. ½ BSP femal inlet including basin mixer, base plate,6l min flow restrictor, 1/2 female iron and 400mm long inletcomplete.	No	1		
	<u>"Cobra Watertech"</u>				
18	22mm 131RB stopcock	No	1		
19	15mm 211-15CP "Star" pillar tap	No	1		
20	15mm 138CP "Star" underwall pattern stopcock	No	1		

21	15mm 266/0410CP "Star" sink mixer	No	1		
22	PB1.10RB vacuum breaker	No	1		
23	PA1.1"RB "Kwikflo" 400 kPa pressure reducing valve	No	1		
24	Geyser Element	No	1		
25	Cobra junior flush master exposed toilet flush valve	No	1		
26	Cobra flush master standard tap-entry toilet flush master	No	1		
27	Cobra demand pillar tap	No	5		
28	Cobra Metering pillar tap	No	5		
	GLAZING				
	The tenderer is referred to the relevant clauses in the separate document Model Preambles for trades (1999 Edition) and to the supplementary preambles which are incorporated at the front of these Bills of Quantities				
	Tenderers are to note that all materials will sourced separately through third party procurement and paid at a proven cost basis.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Proprietary products in descriptions:</u>				
	Propriety products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the service manager				
	<u>Glazing to Aluminium windows, doors etc</u>				
1	4 mm safety glass in panes exceeding 0,1 and not exceeding 0,5 m2.	m ²	1		
2	8mm safety glass in panes exceeding 0,1 and not exceeding 0,5 m2.	m ²	1		
	<u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u>				
	<u>6mm mirror with edges holed for and fixed with screws with rubber buffers to plugs in brickwork or concrete:</u>				
3	Mirror 600 x 1200mm high.	No	1		
	PAINTING				
	The tenderer is referred to the relevant clauses in the separate document Model Preambles for trades (1999 Edition) and to the supplementary preambles which are incorporated at the front of these Bills of Quantities				

	Tenderers are to note that all materials will sourced separately through third party procurement and paid at a proven cost basis.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	Propriety products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the service manager				
	All work to be executed in strict accordance with the specifications of the paint manufacturer and in accordance to the wall finish layout.				
	Where surfaces of plaster etc are sandy/friable, the first coat must be replaced with plaster primer thinned 10% with turpentine.				
	PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK				
	ON INTERNAL FLOATED PLASTER SURFACES				
	<u>Prepare and brush to remove all loose contaminants and apply plascon terracon EZ skim or similar approved to walls including sanding down to achieve a smooth continuous film. All in accordance to manufacturers recommendation</u>				
1	On internal plastered walls	m ²	1		
2	On narrow widths not exceeding 300mm wide	m ²	1		
	ON EXTERNAL FLOATED PLASTER SURFACES				
	<u>Prepare and brush to remove all loose contaminants and apply plascon terracon EZ skim or similar approved to walls including sanding down to achieve a smooth continuous film. All in accordance to manufacturers recommendation</u>				
3	On external plastered walls	m ²	1		
4	On narrow widths not exceeding 300mm wide	m ²	1		
	<u>Prepare and brush to remove all loose contaminants with Polycell sugar soap and apply one coat primer and apply two coats Weatherguard double velvet paint</u>				
5	On External plastered walls	m ²	1		
	ON FIBRE-CEMENT BOARD SURFACES				
	<u>Prepare and paint one coat universal undercoat and two coats "super PVA acrylic emulsion or similar approved" paint on</u>				

6	Fascias and barge boards not exceeding 300mm girth, including priming metal jointing strips	M	1		
7	Eaves soffits, including priming metal jointing strips	m ²	1		
	SKIMMED SURFACES WITH				
	<u>Prepare and paint one coat universal undercoat and two coats "super PVA acrylic emulsion or similar approved" paint on</u>				
8	Ceilings, bulkheads	m ²	1		
9	Cornices	M	1		
	ON WOOD				
	Prepare and paint one coat dulux wood primer, two coats "dulux low sheen enamel paint or similar approved" paint on				
10	On General surfaces of door	m ²	1		
11	On skirtings	M	1		
12	Back of frames, linings, architraves etc not exceeding 300mm wide	M	1		
13	PAINTWORK, ETC TO NEW WORK				
	ON INTERNAL FLOATED PLASTER SURFACES				
14	On internal plastered walls:	m ²	1		
15	On narrow widths not exceeding 300 mm	M	1		
	ON EXTERNAL FLOATED PLASTER SURFACES				
16	On external plastered walls:	m ²	1		
17	On narrow widths not exceeding 300 mm	M	1		
	ON FIBRE-CEMENT BOARD SURFACES				
	<u>Prepare and paint one coat universal undercoat and two coats "super PVA acrylic emulsion or similar approved" paint on</u>				
18	Fascias and barge boards not exceeding 300mm girth, including priming metal jointing strips	M	1		
19	Eaves soffits, including priming metal jointing strips	m ²	1		
	SKIMMED SURFACES WITH				
	<u>Prepare and paint one coat universal undercoat and two coats "super PVA acrylic emulsion or similar approved" paint on</u>				
20	Ceilings, bulkheads etc	m ²	1		
21	Cornices	M	1		

	ON WOOD				
	<u>Prepare and paint one coat dulux wood primer, two coats “dulux low sheen enamel paint or similar approved” paint on</u>				
22	On General surfaces of door	m ²	1		
23	On skirtings	M	1		
24	Back of frames, linings, architraves etc not exceeding 300mm wide	M	1		
	ON GLASS				
25	Tinting on glazing	m ²	1		
	EXTERNAL WORKS (PROVISIONAL)				
	Tenderers are to note that all materials will sourced separately through third party procurement and paid at a proven cost basis.				
	<u>FILLING, ETC</u>				
	<u>20mm Coarse River sand filling supplied by the contractor, compacted to 100% Mod AASHTO density</u>				
1	Under floors	m ²	1		
	<u>Compaction of surfaces</u>		1		
2	Compaction of ground surface under pavings etc, including scarifying for depth of 300mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m ²	1		
	<u>SOIL POISONING</u>				
	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>				
3	Treat filling under concrete beds with 'Chlordane Heptachlor Aldrin' or equal approved.	m ²	1		
	<u>ROAD SURFACING, ETC</u>				
	<u>60mm “Corobrik Wheatstone Paver PB” or similar approved interlocking roadstone paving</u>				
4	Paving to parking areas etc to falls on 25mm thick clean river sand (preparation of ground or filling elsewhere measured), including soil insecticide (LI)	m ²	1		
	<u>Roads marking paint using machinery complete complete</u>				
5	100mm Wide solid white line	M	1		
6	100mm wide solid red line	M	1		

7	200mm wide solid white line	M	1		
8	Standard "Stop" road marking size 4 000mm long overall (colour: white - GM7)	No	1		
9	Standard "Paraplegic" road marking size 1 500 x 2 000mm high overall (colour: yellow)	No	1		
10	Traffic arrow 1 200 x 500mm wide extreme	No	1		
11	Traffic arrow 2 500 x 500mm wide extreme	No	1		
	<u>Local direction signs including steel post, paint to steel post, concrete base, excavations, back filling, etc complete</u>				
12	600mm Diameter "STOP" sign (code: R1)	No	1		
13	630 x 2 000mm "Visitors Parking" sign (code: LD7)	No	1		
14	630 x 2 000mm "Visitors Parking" sign (code: LD9)	No	1		
	<u>BENCHES, TABLES, ETC</u>				
	<u>"Old World Concretes" garden furniture with brown exposed aggregate finish to precast concrete components, including excavation, backfilling and unreinforced concrete footing where applicable</u>				
15	Benches 435 x 1 800 x 455mm high	No	1		
16	Round concrete litter bins, size 495 diameter x 760mm High	No	1		
	CARRIED TO SECTION SUMMARY			R	

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
SCHEDULE D: COMMON WORKS (PROVISIONAL)					
	<u>NOTE TO TENDERERS:</u>				
	All rates should be inclusive of Material, Labour costs to execute works to whatever quantity that is required, All rates are deemed to be inclusive of overhead costs for site establishment, disestablishment, preliminaries and general costs complete and all costs associated with execution and supervision of works complete.				
	Tenderers are to note that works listed under this section can be carried out during Normal working hours or After Hours as per the discretion of the Project Manager, Tenderers are advised to price accordingly as no additional claims will be accepted/entertained.				
	PLUMBING AND ABLUTIONS				
1	Geysers:				
1.1	Replace element	No	5		
1.2	Replace thermostat	No	5		
1.3	Replace Vacuum breaker	No	5		
1.4	Replace geyser	No	5		
2	Ablutions				
2.2	Replace broken seats with the same quality	No	50		
2.5	Replace to toilet pans	No	20		
2.7	Tap replacement (metering tap)	No	10		
2.10	Tap replacement (ordinary tap)	No	10		
2.13	Replace to leaking basin mixer	No	5		
2.15	Replace broken shower door	No	4		
2.16	Repair broken shower head	No	4		
2.17	Replace broken shower head	No	4		
2.18	Repair broken shower mixer	No	4		
2.19	Replace broken shower mixer	No	4		
2.20	Replace broken soap holder	No	4		
2.21	Replace broken towel holder	No	4		
2.22	Repair to leaking basin mixer	No	4		

2.23	Repair leak to urinal trap	No	10		
2.24	Repair leak to toilet pan connector	No	10		
2.25	Unblocking urinals	Hr	30		
2.26	Unblocking toilet pan	Hr	30		
2.27	Unblocking basin	Hr	20		
2.28	Unblocking of drains	Hr	50		
2.29	Valve replacement	No	1		
2.30	Unblocking shower drain	Hr	20		
2.31	Replace 32 mm trap	No	1		
2.32	Replace 40 mm trap	No	1		
3	Call out		1		
3.1	Jetting of sewer lines as a response to blockage	Hr	1		
3.2	Chemically treat sewer lines as a response to blockage	Hr	1		
3.3	Attending to pipe bursts inside the various buildings	Hr	1		
4	Replace damaged pipe with copper pipe above ground level				
	<u>Remove and replace damaged/leaking pipes with new SABS approved water supply copper pipes above ground level and in walls fastened with clips, holderbats etc. including all necessary fittings, accessories (fittings elsewhere measured)</u>				
4.1	15mm diameter pipe to walls, ceiling, floor, in walls etc.	M	1		
4.2	22mm diameter pipe to walls, ceiling, floor, in walls etc.	M	1		
4.3	28mm diameter pipe to walls, ceiling, floor, in walls etc.	M	1		
5	Replace damage pipe with cobra safe MLP (PEX AL PIPE) above ground level				
	Remove and replace damaged/leaking pipes with new heavy-duty Cobra or similar approved Safe MLP (PEX AL pipe) above ground level in walls and fastened with clips, holderbats etc. including all necessary fittings, accessories (fittings elsewhere measured)				
5.1	28mm Ø x 3mm wall thickness pipe to walls, ceiling, etc.	M	1		
5.2	35mm Ø x 3mm wall thickness pipe to walls, ceiling, etc.	M	1		
5.3	40mm Ø x 3mm wall thickness pipe to walls, ceiling, etc.	M	1		
6	Replace damaged pipe with high density polyethylene water pipe above ground				
	Remove and replace damaged/leaking pipes with new				

	SABS approved high density polyethylene water pipe above ground level in walls and fastened with clips, holderbats etc. including all necessary fittings, accessories (fittings elsewhere measured)				
6.1	25mm Ø x 2.3mm thick pipe fixed to walls, ceiling, floor	M	1		
6.2	32mm Ø x 3mm thick pipe fixed to walls, ceiling, floor	M	1		
6.3	40mm Ø x 3.7mm thick pipe fixed to walls, ceiling, floor	M	1		
7	Roof				
7.1	Replacement of rusted or damaged 0.8mm Zincal Z200 roof sheets	m ²	100		
7.3	Replacement of purlins	M	1		
7.4	Maintenance of asbestos roofs, including monthly checks and painting	m ²	1		
7.5	Replace faulty/ broken gutters to match existing	M	1		
7.6	Replace stopped end	No	1		
7.7	Replace shoe	No	1		
7.8	Cleaning of gutters	M	300		
7.9	Replace junction	No	1		
7.10	Replace downpipes	M	1		
7.11	Unblocking downpipes	No	1		
7.12	Replacement of facial boards	M	1		
7.13	Replacement of badge boards	M	1		
7.14	Replace faulty roof screws (5kg) (Supply and Install)	pkts	1		
8	Ceiling		1		
8.1	Replace damaged suspended ceilings/Nailed up ceilings, including skim plaster where necessary (Paintwork e/m)	m ²	150		
8.2	Replace ceiling tiles/panels	No	50		
8.3	Replace cornices to match existing	M	50		
9	Tiling and carpets on floors or walls				
	<u>On Floors</u>				
9.1	Replace ceramic/porcelain tiles,	m ²	200		
9.2	Replace broken tiles (Where affected area <1m ²)	No	30		
9.3	Replace and Repair tile grout to match existing	M	50		
9.4	Removal of existing adhesive to tile and re-application of new to existing tile, including grouting	m ²	100		

9.5	Removal of existing adhesive to tile and re-application of new to existing tile, including grouting (Where affected area <1m2)	No	1		
9.6	Repair tile edging (aluminium / PVC)	M	1		
9.7	Replace carpets	m ²	420		
9.8	Replace carpets Tiles	No	150		
9.9	Replace skirting to match existing	M	1		
9.10	Repair edging / skirting	M	1		
	<u>On Walls</u>				
9.11	Replace ceramic/porcelain tiles	m ²	200		
9.12	Replace broken tiles (Where affected area <1m2)	m ²	1		
9.13	Replace and Repair tile grout to match existing	M	1		
9.14	Removal of existing adhesive to tile and re-application of new to existing tile, including grouting	m ²	1		
9.15	Removal of existing adhesive to tile and re-application of new to existing tile, including grouting (Where affected area <1m2)	No	1		
10	Walls and Windows				
10.1	Replace broken glass windows and accessories	m ²	1		
10.2	Replacement of cracked/broken window panes	m ²	1		
10.3	Replace broken hinges and handles	No	1		
10.4	Repair damaged / cracked walls	m ²	1		
10.5	Repair cracks and holes in concrete	m ²	1		
10.6	Replace existing window tinting to match existing	m ²	1		
11	Doors and Shop front				
11.1	Replace door locks ((Including making good surface of door)	No	20		
11.2	Repair locks (Including making good surface of door)	No	20		
11.3	Unlock faulty locks (where keys are broken-off / lost)	No	20		
11.4	Repair electronic locks (replace if required)	No	1		
11.5	Replace door hinges	Pairs	1		
11.6	Repair door hinges	Pairs	1		
11.7	Replace the door	No	10		
11.8	Replace lost keys	set	1		
11.10	Replace faulty windows frame	No	1		
11.11	Restore Alignment of doors	No	1		
11.12	Restore Alignment of windows	No	1		
11.13	Repair door track/rail	No	1		

11.14	Replace door track/rail	m	1		
12	Steelwork				
12.1	Repair of steel work	m	1		
13	PAINTWORK		1		
13.1	Repair/ Fill cracks and paint one coat universal undercoat and two coats double velvet paint	m ²	150		
13.2	Painting of faded walls one coat universal undercoat and two coats double velvet paint	m ²	150		

14	GLAZING				
14.1	Replace broken safety glass (panels)	m ²	1		
14.2	Replace broken safety glass (windows)	m ²	1		
14.3	Replace broken clear float glass (doors)	m ²	1		
14.5	Replace obscure glazing (windows)	m ²	1		
14.6	Replace obscure shower door	m ²	1		
14.7	Replace applicable sealant where water penetration is evident	M	1		
15	FENCING				
15.1	Installation of Clear-view panel n.e 4m, including under dig, excavation, concrete etc complete (Labour only)	No	5		
15.2	Supply and install concertina razor wire coils or similar approved	M	5		
15.3	Installation of palisade panel n.e 2m, including excavation, concrete etc complete (Labour only)	No	5		
16	SIGNAGE				
16.1	Ablution signage	No	5		
16.2	Way-finding signage	No	5		
17	EXTERNAL WORKS				
17.1	Replace damaged paving bricks, including sand bedding, dpc etc complete	m ²	50		
17.2	Remove existing faulty parking bay nets, fold and hand-over to ACSA Size 7m x 7m and replace with new, including steel structure complete	No	1		
	CARRIED TO SECTION SUMMARY				R

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
SCHEDULE E: REPAIRS AND REFURBISHMENTS OF FURNITURE AND EQUIPMENT – RATE ONLY					
	Tenderers are to note that all materials will sourced separately through third party procurement and paid at a proven cost basis.				
1	Repairs to Boardroom desks (fasten all screws and bolts – replace were required, ensure alignment and sturdiness)	No	1		
2	Repairs to cabinets and shelves. (replace handles, replace hinges)	No	1		
2	Repairs to Chairs	No	1		
3	Repairs to Check-in Counter	No	1		
4	Repairs to Departure Boarding Gates	No	1		
5	Repairs to Coat racks	No	1		
6	Repairs to Counters (at the Info desk)	No	1		
7	Repairs to Desks	No	1		
8	Repairs to tables including folding tables	No	1		
9	Repairs to Leather Couches	No	1		
10	Repairs to terminal seating	No	1		
11	Repairs to Curtains	No	1		
12	Repairs to Blinds	No	1		
13	Supply new ergonomic chair	No	1		
14	Supply new Desks with lockable drawers and credenza	No	1		
	CARRIED TO SECTION SUMMARY			R	

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
SCHEDULE F: MAINTENANCE OF INTERNAL FAUNA AND FLORA					
1	Decorative Flower rentals and maintenance (Refer to attached Specification)	Provisional Sum	1	R 30 000,00	R 30 000,00
	CARRIED TO SECTION SUMMARY			R 30 000,00	

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
SCHEDULE G: PEST CONTROL – RATE ONLY					
1	Apply surface spray – where applicable	m ²	1		
2	Supply and installation of tamperproof bait stations – Serviced monthly	No	1		
3	Perform fumigation activities – performed bi-weekly	m ²	1		
CARRIED TO SUMMARY				R	

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
SCHEDULE H: ALLOWANCE FOR AD HOC (PROVISIONAL):					
<i>*using the Normal Hours Labour rates in the table below.</i>					
1	Site Foreman/Supervisor	Hr	15		
2	Skilled Labourer	Hr	15		
3	Unskiled General Labourer	Hr	15		
4	Brick Layer	Hr	15		
5	Carpenter	Hr	15		
6	Tiler	Hr	35		
7	Plasterer	Hr	15		
8	Welder	Hr	15		
9	Plumber	Hr	35		
CARRIED TO SECTION SUMMARY					R

Labour:

Any work not included under Pricing Schedule above shall be deemed additional work or non-scheduled items and will be charged at the following rates:

Item	Description	Normal hours (Including Saturdays) (R/hour)	After hours (R/hour)	Sunday/Public Holidays (R/hour)
1	Site Foreman			
2	Skilled Labourer			
3	Unskilled Labourer			
4	Brick Layer			
5	Carpenter			
6	Tiler			
7	Plasterer			
8	Welder			
9	Plumber			

All rates to exclude VAT. Subject to mutual agreement between the *Employer* and the *Contractor*, the number of staff allocated to the contract may be increased/decreased to cater for special needs that may arise from time to time. Labour rates shall include all personnel insurance, holidays with pay, incentive bonuses. No labour shall be charged for travel or travelling. Labour time shall be calculated for the time spent on site only.

Mark up (third party procured items/services)

This is to allow the procurement of items that are not covered above.

Cost	Mark-up percentage
R 0 – R 2 000	
R2001 – R 10 000	
R 10 001 – R 50 0000	
Over R R50 0000	

Cost shall be net cost (excluding VAT) of parts delivered to site with all discounts deducted. Original Tax Invoices from the service providers to be submitted with the Contractor's invoice.

	THE APPOINTMENT OF A CONTRACTOR FOR THE MAINTENANCE, REPAIRS AND REFURBISHMENTS OF BUILDINGS AND FACILITIES AT KING PHALO AIRPORT FOR A PERIOD OF 1 YEAR	KING PHALO AIRPORT
SUMMARY OF SCHEDULE OF QUANTITIES		
		TOTALS
A	SCHEDULE A: ADMINISTRATION COSTS	R
B	SCHEDULE B: PREVENTITIVE MAINTENANCE	R
C	SCHEDULE C: SPECIALIZED WORKS -RATE ONLY	R
D	SCHEDULE D: COMMON WORKS	R
E	SCHEDULE E: REPAIRS AND REFURBISHMENTS OF FURNITURE AND EQUIPMENT	R
F	SCHEDULE F: MAINTENANCE OF INTERNAL FAUNA AND FLORA	R 30 000,00
G	SCHEDULE G: PEST CONTROL- RATE ONLY	R
H	SCHEDULE H: ALLOWANCE FOR AD HOC	R
SUB -TOTAL(A-H) EXCLUDING VAT		R
ADD 15% VAT		R
Total Including VAT – Carried to Form of Offer		R