

**PROPOSED ALTERATIONS TO EXISTING ABLUTIONS AND PAINTING OF EAST LONDON STATION
EAST LONDON STATION**

PROVISIONAL BILLS OF QUANTITIES

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1	<u>SECTION NO. 1 - PRELIMINARIES</u>				
	<u>PRELIMINARIES</u>				
	<u>BUILDING AGREEMENT AND PRELIMINARIES</u>				
	<p>The JBCC Series 2000 Principal Building Agreement (July 2007 edition) prepared by the Joint Building Contract Committee shall be the applicable building agreement.</p> <p>The JBCC Series 2000 Preliminaries (May 2005 edition) prepared by the Joint Building Contract Committee shall be deemed to be incorporated in these bills of quantities.</p>				
	<u>PRELIMINARIES</u>				
1.1	Preliminaries (Provisional Sum	Prov Sum	1	R	-
1.2	Health & Safety Provisions (Provisional Sum)	Prov Sum	1	R	-

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2	<p><u>SECTION NO. 2 - ABLUTIONS</u></p> <p><u>ALTERATIONS</u></p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Section 2 Bill No.1, shall equally apply to this bill.</p> <p><u>PREAMBLES</u></p> <p>Tenderers are advised to study the "MODEL PREAMBLES FOR TRADES" (2008 Edition) as recommended and published by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Notices.</u></p> <p>Special care is to be experienced not to interfere unnecessarily with any electrical or telephone installation that may be met and due notice is to be given to the Principle Agent when any disconnections or removal of wires, fittings etc., are necessary for the execution of th works.</p> <p><u>Temporary coverings, screens, etc.</u></p> <p>The Contractor will be held responsible for any damages to property or goods in the existing buildings due to the contractor not having taken adequate precautions and all damage caused is to be made good at the contractors expense. The contractor must allow for providing all necessary plastic or wood framed screens, partitions, tarpaulins, barriers, etc, to protect the work and prevent any nuisance from dust as may be required or directed.</p>				

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	<p><u>Damage to persons or property.</u></p> <p>The Contractor will be held responsible for any damage to persons or property and for the safety of the structures and the contractor is to allow for protection and indemnifying persons using the existing building operations, including providing necessary barriers, signs, etc.</p> <p><u>Making good.</u></p> <p>Prices for all works described throughout the Bills of Quantities are to include for making good, whether specifically mentioned or not in all trades, unless otherwise described.</p> <p>The Contractor must make good to existing work damaged or disturbed through alterations and to existing work remaining.</p> <p>All materials in making good are to match existing and the work is to be left complete and perfect in every aspect.</p> <p><u>Taking out.</u></p> <p>Taking out doors, screens, windows, fittings, etc. is to include for their removal complete with frames, ironmongery, glass, etc. for removing architrave's, quadrants skirtings, blinds, burglar guards and all the accessories for making good as previously described unless otherwise described.</p> <p><u>Forming of openings.</u></p> <p>Forming plain, window or door openings is to include for cutting through as previously described, forming brick or concrete lintels over, including all reinforcement, formwork, etc. and for making good as previously described to floors, reveals, etc unless otherwise described.</p> <p><u>Building in.</u></p> <p>Building in new or re used doors, windows, etc. into formed openings in existing brick or concrete walls is to include for wedging up, cutting mortices, for running in lugs 3:1 cement mortar or for plugging and screwing as necessary and bedding and pointing all around frame in cement mortar.</p> <p><u>Fixing in position.</u></p> <p>Fixing new and re-fixing existing materials is to include for cutting and fitting over existing skirtings, cornices, quadrants, etc. or for cutting existing work and for finishing up to new and for making good as previously described.</p> <p>Re-fixing existing materials is to include for all necessary cutting to suit, forming mitres, fair ends, etc, for supplying short lengths of new materials to make up for any deficiencies and for supplying new screws, nails, etc, as is necessary. Re-fixing existing doors, windows, fittings, etc. is to include for building in complete with frames,quadrants, window boards, water bars, glass, ironmongery, etc, unless otherwise described and for overhauling, adjusting, easing and oiling ironmongery.</p>				

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p><u>Junction of new and existing.</u></p> <p>Making good at junctions of and existing work is to include for piercing out, cutting through and removing short lengths of existing materials and for jointing to match existing.</p> <p><u>General.</u></p> <p>Prices for the demolition or removal of any portion of the structure shall include for its demolition complete with all surfaces finishes such as plaster, screeds, etc. all attached items of joinery such as skirtings, and all reinforcement, conduiting, pipes, lintels, etc. built into that portion of the structure.</p> <p>Prices for the removal of doors and frames shall include for the removal of fanlights, ironmongery, architrave's and other associated trim. Prices for the removal of sanitary fittings shall include for the removal of all pipework, taps, traps, valves, brackets and fittings. Prices for the removal of windows shall include for the removal of glass, louvres, burglar bars attached to the window sills and blinds.</p> <p>All work must be done carefully as to not damage or harm any existing adjoining surfaces. Any damage that occurs will be repaired to the same as the original at the Contractor's expense. Should any discrepancies be found, the contractor is to refer them to the Principle Agent for correction, before proceeding with the work. Where material is described as to match existing it will be the responsibility of the Contractor to ascertain that the material matches the existing in all aspects, (Aesthetical, structural or functional).</p> <p>Removal from site Where "removing" or "spoil" occurs in terms, it shall include for all loading and carting away from the site to a suitable dumping site found by the contractor and the contractor shall pay all fees, etc., in this regard.</p>				

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE		AMOUNT	
	<u>ALTERATIONS TO EXISTING WORKS</u>						
	<u>BILL NO. 1</u>						
2.1	<u>BUDGETARY ALLOWANCE</u>						
2.1.1	Provide the amount as indicated for sundry alterations (new set of ironmongery.)	Sum	1	R	80,000.00	R	80,000.00
2.1.2	Profit on above	%	80,000			R	-
2.1.3	Provide the amount as indicated for sundry alterations (new frame and doors)	Sum	1	R	75,000.00	R	75,000.00
2.1.4	Profit on above	%	75,000			R	-
2.1.5	Provide the amount as indicated for sundry alterations (WC pans, urinals, basins, and taps complete)	Sum	1	R	200,000.00	R	200,000.00
2.1.6	Profit on above	%	200,000			R	-
2.1.7	Provide the amount as indicated for sundry alterations (signage and wayfinding elements, including safety, directional, and identification signage, as per PRASA standards)	Sum	1	R	300,000.00	R	300,000.00
2.1.8	Profit on above	%	300,000			R	-
2.1.9	Provide the amount as indicated for sundry alterations (Painting)	Sum	1	R	75,000.00	R	75,000.00
2.1.10	Profit on above	%	75,000			R	-

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 2</u>				
2.2	<u>REMOVAL OF EXISTING WORK</u>				
	Skirting				
2.2.1	Taking out and removing existing skirting	m ²	297	R	-
	Hacking up/off and removing tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes.				
2.2.2	Removal of wall tiles complete including making good plaster	m ²	600	R	-
2.2.3	Removal of floor tiles complete including making good screeds	m ²	170	R	-
	Carefully remove existing damaged joinery fittings etc., complete				
2.2.4	Take out and remove all existing damaged joinery fittings, ironmongery and prepare to receive new ironmongery, complete, in the all identified ablution	No	50	R	-
	Carefully remove existing glass, mirrors etc., complete				
2.2.5	Demolish and remove existing glass, mirrors, etc., complete	No	5		
	Carefully disconnect existing services, and make safe for alterations.				
2.2.6	Carefully disconnect and remove all existing WC pans and make safe for alterations.	No	26	R	-
2.2.7	Take out and removal of urinals (disconnect, remove, make good)	No	12	R	-
2.2.8	Removal of washbasins (disconnect, remove, make good)	No	15	R	-
	Carefully remove existing damaged doors and frames				
2.2.9	Take out and remove damaged door and frames	No	15	R	-
	Carefully remove existing Glazing				
2.2.10	Take out and remove damaged glazing	m ²	30	R	-
	Carefully hack off existing plaster				
2.2.11	Carefully hack off existing plaster	m ²	150	R	-

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2.3	<p><u>BILL NO. 3</u></p> <p><u>IRONMONGERY</u></p> <p>The contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.</p> <p>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>All keys are to be handed over with proper key labels for each individual lockset and this is to be included in the rates for ironmongery items. Three sets of keys to be issued per door.</p> <p><u>Finishes to ironmongery</u></p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded SS Stainless Steel</p> <p><u>INSTALLATION</u></p> <p>Take delivery, including necessary off-loading, handling, storage, protection etc and install the following ironmongery and accessories including all necessary fixings, etc.</p>				
2.3.1	Bathroom/WC indicator bolt with keep fixed to metal/ brickwork	No	100	R	-

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2.4	<p><u>BILL NO. 4</u></p> <p><u>SIGNAGE ETC.</u></p> <p><u>Supply and install UNION or similar approved aluminium engraved indicator pictograms, size 152mm x 152mm x 3mm thick, including all fixing screws, mounting boards, adhesives etc. and installed in accordance with manufacturer's instructions</u></p>				
2.4.1	"MALE" Indicator Pictogram	No	13	R	-
2.4.2	"FEMALE" Indicator Pictogram	No	13	R	-
2.4.3	"TOILET" Indicator Pictogram	No	26	R	-

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	BILL NO. 5				
2.5	<u>PLASTERING</u>				
	<u>One coat 1:5 cement plaster to brickwork</u>				
2.5.1	Prepare walls to plaster in patches.	m ²	100	R	-
2.5.2	On walls	m ²	150	R	-

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2.6	<p><u>BILL NO. 6</u></p> <p><u>TILING</u></p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Section 2 Bill No.1, shall equally apply to this bill.</p> <p><u>PREAMBLES</u></p> <p>Tenderers are advised to study the "MODEL PREAMBLES FOR TRADES" (2008 Edition) as recommended and published by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES.</u></p> <p>Fixing of wall tiles Descriptions of wall tiling shall be deemed to include "fixed with adhesive to plaster (plaster by others) unless otherwise described.</p> <p>Cleaning of tiles Tiling shall be thoroughly cleaned down on completion.</p> <p>Availability of tiles When pricing tenderers must make sure that there is enough stock available or that enough stock can be obtained timeously of the respective tiles specified.</p> <p>Cutting of tiles All straight and raking cutting and waste must be allowed for in the rates.</p> <p><u>WALL TILING</u></p> <p>Supply and install fully bodied porcelain tiles 300 x 300mm smooth finish (Allow a P.C. Amount of R200.00/m² supplied and delivered to site) colour to be advised cut in width to suit layout fixed with Tal Gold Star 6 adhesive on plastered walls (by others) butt jointed, with Tal grouting all in accordance with the manufacturers specification.</p>				
2.6.1	<p>Prepare existing surfaces and Install new wall tiles.</p> <p><u>FLOOR TILING</u></p> <p>Supply and install 300 x 300mm Porcelain tiles (Allow a P.C. Amount of R300.00/m² supplied and delivered to site) fixed to screeded floors (elsewhere) with Tal Gold Star 6 adhesive with 3mm wide continuous joints, with Tal grouting all in accordance with the manufacturers specification.</p>	m ²	800	R	-
2.6.2	Prepare existing surfaces and Install new floor tiles.	m ²	170	R	-
2.6.3	150mm High skirting of cut tiles.	m	110	R	-

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2.7	<p><u>BILL NO. 7</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p>PREAMBLES</p> <p>For preambles see "Construction Specifications - General Specification (PW371-A)" and "Construction Specifications - Particular Specification (PW371-B)"</p> <p>SUPPLEMENTARY PREAMBLES</p> <p><u>Wire gratings</u></p> <p>Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings</p> <p><u>Stainless steel basins, sinks, wash troughs, urinals, etc</u></p> <p>Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0) Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8) Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8) Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><u>Sealing of edges</u></p> <p>Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone</p> <p><u>Waste unions</u></p> <p>Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings</p> <p><u>PVC-U pipes and fittings</u></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings</p> <p><u>PVC-U pressure pipes and fittings</u></p> <p>Pipes of 50mm diameter and smaller shall be plain ended with solvent welded PVC-U loose sockets and fittings Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be PVC-U and all other fittings shall be cast iron, all with similar push-in type joints</p> <p><u>High density polyethylene (HDPE) pipes and fittings</u></p> <p>Pipes shall be type IV and of the class specified with compression fittings</p>				

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p><u>Polypropylene pipes</u></p> <p>Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p><u>Copper pipes</u></p> <p>Pipes shall be hard drawn and half-hard pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Maksal" type. Capillary solder fittings shall comply with ISO 2016</p> <p>Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition</p> <p><u>Reducing fittings</u></p> <p>Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained</p> <p><u>Fixing of pipes</u></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level</p> <p><u>Paper wrapping to pipes</u></p> <p>Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings</p> <p><u>Disinfection of water pipework</u></p> <p>Water pipework is to be disinfected at completion</p> <p><u>Petrolatum anti-corrosion tape</u></p> <p>Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with 20% overlaps Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions</p> <p>Prices for wrapping of pipes shall include for all work as described to couplings in the length</p>				

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p><u>Timber backing boards</u></p> <p>Descriptions for fire extinguishers shall be deemed to include hardwood backboard with exposed edges chamfered and finished with three coats approved satin gloss polyurethane varnish</p> <p><u>Laying, backfilling, bedding, etc of pipes</u></p> <p>Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled</p> <p>Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001</p> <p><u>General</u></p> <p>Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately) Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends</p> <p>Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 90% Mod AASHTO density and disposal of surplus material on site</p> <p>Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)</p> <p>Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)</p> <p><u>As-built drawings</u></p> <p>Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)</p> <p><u>Regulations</u></p> <p>All drainage and sanitary work shall be executed in accordance with the regulations of the Local Authority. Only registered plumbers and drainlayers shall be employed on any plumbing and drainage work and a Certificate of Compliance must be issued after completion of the installation</p>				

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	<u>SANITARY FITTINGS</u>				
	<u>Manufactured by "Propelair"</u>				
2.7.1	Propelair WC Mk3, White Lid, White Latch, Push Button wc suite comprising pan with double flap heavy duty thermoplastic seat and matching 1,5 litre cistern including all cabling, piping, battery packs, smart chargers, etc. complete all as per the suppliers specifications and details	No	26	R	-
2.7.2	Urinals to match existing	No	12	R	-
	<u>TRAPS ETC</u>				
	<u>Manufactured by "Cobra"</u>				
2.7.3	"345/50" chromium plated bottle trap	No	20	R	-
2.7.4	"365/50" chromium plated bottle trap	No	6	R	-
	<u>TAPS, VALVES, ETC</u>				
	<u>Manufactured by "Cobra"</u>				
2.7.5	25mm "1001/125-25" brass full way gate valve	No	50	R	-
2.7.6	15mm "232/350" angle regulating valve with 350mm long flexible service connection	No	22	R	-
2.7.7	15mm "108LK" brass hose bib tap	No	22	R	-
	<u>Testing</u>				
2.7.8	Testing water pipe system	Item	1	R	-

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	<u>SECTION NO. 3 - PAINTWORK</u>				
	<u>BILL NO. 1</u>				
3	<u>PAINTWORK</u>				
	The contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.				
	No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	All paintwork is to be applied in strict accordance with the manufacturers instructions				
	All surfaces to be dry, sound and clean, properly cured, and rubbed down to remove all projections and imperfections prior to painting				
3.1	<u>PAINTWORK ETC TO EXISTING WORK</u>				
	<u>ON PLASTERBOARD SURFACES</u>				
	<u>Surface to be clean, dry and dust free, two coats "Dulux Luxurious Silk" (Code: D22) with an overcoating time of 4 hours (or similar approved product from DULUX)</u>				
3.1.1	On ceilings	m ²	170	R	-
	<u>PAINTWORK ETC TO EXISTING WORK</u>				
	<u>ON METAL, STEEL ETC.</u>				
	<u>Prepare previously painted surface, to be clean, dry and rust free, two coats "Dulux Eggshell Enamel" (Code: D25) with an overcoating time of 18 hours (or similar approved product from DULUX)</u>				
3.1.2	On door frames	m ²	11	R	-
	<u>ON WOOD</u>				
	<u>Sand with abrasive paper, leaving surface clean and dust free, undercoat with one coat Dulux Trade Universal Undercoat (Code: T1001) with an over coating time of 18 hours and finish with two coats "Dulux Trade Eggshell Enamel" (Code: T3002) with an overcoating time of 18 hours (or similar approved product from DULUX)</u>				
3.1.3	On doors	m ²	200	R	-
3.1.4	On windows	m ²	200	R	-
	<u>ON PLASTER</u>				

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3.1.5	<u>Prepare previously painted walls</u>				
	on previously plastered external station building walls	m ²	5,292	R	-
	on previously painted plastered internal bathroom walls	m ²	756		
3.1.6	<u>Three coats external quality textured "Dulux Luxurious Silk", product code D22, colour to be confirmed, pure acrylic paint (or similar approved product from DULUX), Surface to be clean, dry and dust free. Paint applied with an overcoating time of 4 hours.</u>				
	on previously painted plastered external station building walls	m ²	5,292	R	-
	<u>Three coats internal quality textured "Dulux Luxurious Silk", product code D22, colour to be confirmed, pure acrylic paint (or similar approved product from DULUX), Surface to be clean, dry and dust free. Paint applied with an overcoating time of 4 hours.</u>				
3.1.7	on previously painted plastered internal bathroom walls	m ²	756	R	-

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1	Provisional Sums	Page	1	R	-	R -
2	Budgetary Allowances	Page	5	R	-	R 730,000.00
3	Alterations	Page	6	R	-	R -
4	Ironmongery	Page	7	R	-	R -
5	Signage	Page	8	R	-	R -
6	Plastering	Page	9	R	-	R -
7	Tiling	Page	10	R	-	R -
8	Plumbing and Drainage	Page	14	R	-	R -
9	Paintwork	Page	15, 16	R	-	R -
	TOTAL	T				
	Contingencies	C	10%	R	-	R -
	SUB-TOTAL					R -
	Add: Value Added Tax at 15% RATE#	TAX	15%	R	-	R -
	GRAND TOTAL					R -