

**CITY OF UMHLATUZE UPGRADE OF ESIKHALENI INTERSECTION
BLOCK A1 AND A2**

[illegible]

**CITY OF UMHLATUZE UPGRADE OF ESIKHALENI INTERSECTION
BLOCK A1 AND A2**

<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>BILL NO. 2</u>			
<u>ALTERATIONS</u>			
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>View</u>			
Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained			
<u>Existing Furniture, Equipment, etc</u>			
The Contractor shall not remove or damage any furniture, equipment or similar items that belong to the Department except when specifically described. The Contractor must give the Principal Agent sufficient notice if the removal of any items are required before any prescribed alterations can be done			
<u>Damage to existing finishes</u>			
The Contractor will be held responsible for all damage however caused to existing finishes and fittings, etc. and he must make good all damage at his own expense to the approval of the Principal Agent			
Breaking down, demolition and alteration activities and tasks, hacking off of existing plaster, etc. is to be executed with care so as to prevent damage to remaining floor and wall surfaces and finishes (where these are to be retained). Tenders will be deemed to include allowance for any necessary protection of existing surfaces and structures as may be necessary to effect the above, as the cost of repairing damage to existing surfaces and structures will be solely for the Contractors account			
Carried Forward		R	
Bill No. 2 Alterations			

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Brought Forward		R	
<u>Responsibility for site</u>			
<p>The Contractor is to note that upon possession of the site by himself, and extending until practical completion is achieved, he is solely responsible for the site, site security, general upkeep and cleaning of the site and all other responsibilities in maintaining a construction site in conformance with but not limited to, the Construction Regulations 2014, all local by-laws, all user client regulations and procedures. Tenderers are therefore urged to study all available material and to investigate the site fully and areas contiguous to the site, in order to determine the range and extent of responsibility. No additional monetary and/or time claims will be entertained in respect of the above</p>			
<u>Explosives</u>			
<p>No explosives whatsoever maybe used for demolition purposes unless otherwise stated</p>			
<u>General</u>			
<p>The Contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum amount of disturbance to adjoining classroom blocks and their students. He shall provide proper protection of the works and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the Principal Agent</p>			
<p>Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectively stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the Principal Agent</p>			
<p>Doors, fanlights, fittings, frames, linings, etc. which are to be re-used shall be thoroughly overhauled before refixing, including taking off, easing and rehangng, cramping up, re-wedging as required and making good cramps, dowels, etc., and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting</p>			
Carried Forward		R	
<p>Bill No. 2 Alterations</p>			

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<p style="text-align: right;">Brought Forward</p> <p>or re-varnishing is given separately</p> <p>"Taking out and removing doors, windows, etc" implies that the door, etc. is to be carefully taken down together with the fame, linings, architraves, window sills, etc. complete and where brick lintels occur, it must be supported and propped until the openings are built up or new doors or windows built in position</p> <p>Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc. and making good floor and wall finishes to match existing.</p> <p>"Forming openings" for doors or windows, etc. implies that the plaster or any other covering is to be hacked off and an opening formed sufficient in size to receive the building in of the frame and cramps, and the forming of new damp proof courses, lintels, sills, etc. After building in of the new frame, the opening is to be built up against the frame, plaster or faced brickwork to be made good both sides and reveals and floor screeds prepared for finishings to match existing</p> <p>"Making good" implies that all necessary repairs are to be made to reinstate articles that may be damaged through the removal or otherwise, and the supplying of any new materials to match existing work, and is to include any necessary repairs to adjacent finishings such as floors, skirtings, plaster, painting, etc. and such making good is to match adjoining work in all respects and in all trades</p> <p>The Contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc.)</p> <p>The contractor is to acknowledge that sequencing of the work will be necessary to accommodate the operational aspects of the school. The Contractor is to accordingly factor the above requirement in the construction programme and pricing</p> <p>"Breaking down and removing" walls, etc. implies that</p> <p style="text-align: right;">Carried Forward</p> <p>Bill No. 2 Alterations</p>		R	
		R	

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Brought Forward			
<p>the wall is to be taken down to the extent shown on the drawings, or as may be described, and that all necessary shoring is to be provided and allowed for to ensure the safety of the building during the pulling down, or until new walls where disturbed or affected by the removal, are to be made good and left ready for plaster or other finishings as described</p> <p>Where removal is included in the heading, sub-heading or item description, prices shall be deemed to include for the necessary costs of removal and appropriate disposal of materials including, but not limited to labour, transportation and disposal costs. No further claims in this regard will be entertained</p> <p>"Building up openings" implies that after the removal of any doors, windows or screens that may be described to be taken down, the opening is to be filled up solid (or to the thickness as shown) with new brickwork and is to include all necessary cutting away to form toothings to thoroughly bond to the new work and new finishes to both sides as described</p> <p><u>Removal of asbestos material</u></p> <p>The removal of asbestos shall be carried out by a certified entity, registered in accordance with Occupational Health and Safety Act, 1993 - Asbestos Regulations 2001 and all necessary precautions must be taken when working with and disposing of asbestos cement products and the disposal of waste water resulting from cleaning operations, etc.</p> <p>Asbestos in all forms/building elements that is to be removed, shall be carried out strict accordance with aforementioned regulation and a certificate issued by the entity as contemplated in the above, shall be provided per block for the removal thereof, where the term block shall in this context refer to any single, free standing building structure, regardless of size or purpose</p> <p>Corresponding disposal certificates shall be issued by the facility at which the asbestos is disposed off, with said facility to, prior to the disposal of any asbestos material provide satisfactory proof that the facility is duly registered and fully compliant in terms of the act, to receive the asbestos material</p>		R	
Carried Forward			
<p>Bill No. 2 Alterations</p>		R	

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<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	Brought Forward		R	
	Under no circumstances is the Contractor nor any of his duly authorised representatives to sell and/ or give away asbestos material to any member/s of the school community, the community in general or the public at large. Should this be found to be occurring, the Contractor will be held responsible contractually and may further be prosecuted criminally			
	The cost for complying with the above, and all requirements of regulation as reflected above is to be priced for in terms for removal of asbestos material. No further claims in this regard will therefore be entertained			
	<u>REMOVAL OF EXISTING WORK</u>			
	<u>Taking out and removing doors, windows, etc from brickwork to be demolished, setting aside and protecting for re-use</u>			
1	Timber single door and frame not exceeding 2,5m²	No	4	
	<u>Taking up and wall tiling</u>			
2	Ceramic wall tiles including preparing plaster for new wall tiling	m2	32	
	<u>OPENINGS THROUGH EXISTING WALLS ETC</u>			
	<u>Breaking out for and forming openings through brick walls including necessary precast concrete lintels and making good plaster to both sides and into reveals and with concrete thresholds / brick cills (new doors and frames and making good paintwork elsewhere)</u>			
3	Opening for door size 900 x 2100mm high through half brick wall	No	4	
	<u>REMOVAL OF EXISTING SANITARY FITTINGS</u>			
	<u>Take out and removing sanitary fittings including making good wall and floor finishes and temporarily stop off services:</u>			
4	Remove basin.	No	1	
	Carried to Summary		R	
	Bill No. 2 Alterations			

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<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>BILL NO. 3</u>			
<u>MASONRY</u>			
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<u>SUPPLEMENTARY PREAMBLES</u>			
<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>Bricks</u>			
Clay and concrete bricks are to comply with NHBRC Part 2, Section 3			
<u>Bagged and sealed walls</u>			
Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating			
<u>Face bricks</u>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
Carried Forward		R	
Bill No. 3 Masonry			

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<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	Brought Forward		R	
	<p><u>Hollow walls etc</u></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p><u>Pointing</u></p> <p>All pointing of exposed joints to be concave</p> <p><u>Samples</u></p> <p>Samples of all masonry building units, except those of walls described as "load bearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site</p>			
	<u>BRICKWORK</u>			
	<u>Brickwork of NFP bricks in class II mortar</u>			
1	Half brick walls m2	44		
	<u>BRICKWORK SUNDRIES</u>			
	<u>Galvanised high tensile steel welded mesh brick reinforcement consisting of two 3.55mm main wires and 2.80mm cross wires electrically welded at 300mm centres</u>			
2	75 mm Wide reinforcement built in horizontally m	129		
	<u>Precast prestressed lintels:</u>			
3	110 x 75mm Lintels in lengths not exceeding 3m m	6		
	Carried to Summary		R	
	Bill No. 3 Masonry			

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<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>BILL NO. 4</u>			
<u>CARPENTRY & JOINERY</u>			
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>ROOFS ETC</u>			
<u>MONOPLANAR PREFABRICATED METAL CONNECTED TIMBER ROOF TRUSSES</u>			
All trusses to be fabricated in a factory by a truss fabricator who holds a current Certificate of Competence awarded by the Institute for Timber Construction			
TR1 and TR2 Certificates are to be issued for each block before occupation may take place			
<u>PREFABRICATED ROOF TRUSSES HAVING A PITCH NOT EXCEEDING 25 DEGREES</u>			
NOTE: All timber roof trusses including nail-plated trusses and bolted trusses with lapped members must comply with SABS 0243: THE DESIGN, MANUFACTURE AND ERECTION OF TIMBER TRUSSES			
Prices for roof trusses are to include for all temporary bracing and supports and for all necessary top and bottom chord bracing, wind bracing and runners where required and TR1 and TR2 Certificates			
<u>TIMBER</u>			
Timber for trusses to be South African Softwood structural timber and shall be at least of grade 4 and in accordance with SABS Specification No.'s 563 or 1245 or laminated timber in accordance with SABS 1460			
<u>METAL CONNECTOR PLATES</u>			
Carried Forward		R	
Bill No. 4 Carpentry & Joinery			

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<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>												
<div>Brought Forward</div> <div>R</div> <div>Metal truss connector plates shall be made from galvanised steel of at least 1mm nominal thickness, with a minimum yield strength of 330mPA. The corrosion resisting coating shall be 0,275Kg/m2 commercial class hot dipped galvanising</div> <div>The connector plates shall have been tested by the CSIR and be a size capable of transmitting the forces between the members of a truss without exceeding the design values given in the CSIR report</div> <div><u>BOLTS</u></div> <div>Bolts shall be to BS 4190 or SABS 135 with appropriate washers (See below)</div> <div><u>WASHERS</u></div> <div>Square or round washers of the following minimum dimensions shall be used with all bolts:</div> <div><div>WASHER DIMENSIONS</div><table><tr><td>Bolts size</td><td>Width (mm)</td><td>Thickness</td></tr><tr><td>up to M8</td><td>25</td><td>2,5</td></tr><tr><td>up to M12</td><td>36</td><td>4,0</td></tr><tr><td>up to M20</td><td>60</td><td>5,0</td></tr></table></div> <div><u>SHEAR PLATES, TOOTH CONNECTORS AND SPLIT RINGS</u></div> <div>These shall be as specified in BS 1547 and installed in accordance with the CSIR Publication : HOUT 468, "The Design, Manufacture and Erection of Timber Trusses"</div> <div><u>NAILS</u></div> <div>These shall be in accordance with SABS 820 : 1974</div> <div><u>TRUSS CONSTRUCTION</u></div> <div>The trusses shall be constructed to ensure the correct profile, overhangs and cambers</div> <div>All joints are to be close fitting butt joints made by precision pressing of the metal connector plates into each side of the joint</div> <div><u>TRUSS DESIGN</u></div> <div><div>Carried Forward</div><div>R</div><div>Bill No. 4 Carpentry & Joinery</div></div>				Bolts size	Width (mm)	Thickness	up to M8	25	2,5	up to M12	36	4,0	up to M20	60	5,0
Bolts size	Width (mm)	Thickness													
up to M8	25	2,5													
up to M12	36	4,0													
up to M20	60	5,0													

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<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
Brought Forward		R	
<p>All trusses shall be designed by a registered Professional Engineer employed by the Contractor in accordance with the SABS Code of Practice for the Design of Timber Structures SABS 0163 and the Code of Practice for General Procedures and Loadings SABS 0160</p> <p><u>TRUSS SPACING</u></p> <p>The truss centres shall be less than or equal to that described in the Bills for each respective truss type</p> <p><u>DRAWINGS</u></p> <p><i>Prints shall be provided to the consulting engineer/architect for approval. These drawings shall be signed by a Professional Engineer</i></p> <p>The following minimum information shall be supplied: *Details of the roof system with the positions of all trusses and beams clearly indicated *Bracing details *All truss details, including valley trusses where applicable, with the following clearly detailed:- - All member sizes and grades - Connector plates sizes for all truss joints.</p> <p>Code numbers are deemed sufficient *All connection and hold down details between trusses, girders, beams and supports *The type of roof covering, ceiling and any other loads taken into account in the design</p> <p>The dimensions in the descriptions of trusses are nominal and verification measurements are to be obtained from site before design or fabrication commences, and must be designed in accordance with the environmental conditions of the area</p> <p><u>GENERAL</u></p> <p>The rates in this Bill of Quantities must include for all timber of the required grade and type shown on the designs, all cutting and waste, cutting to exact length and end angles necessary to manufacture the respective truss types, the supply of all connector plates, fabrication of the trusses, checking the completed truss for quality, as well as loading, transporting to site and offloading</p>			
Carried Forward		R	
<p>Bill No. 4 Carpentry & Joinery</p>			

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<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
Brought Forward		R	
The trusses must be suitably stored and protected on site as directed by the Principal Agent or his Representative			
<u>ERECTION</u>			
The trusses are to be hoisted and erected strictly in accordance with the procedures and recommendations of the Manual "The Erection and Bracing of Timber Roof Trusses" published by the Institute for Timber Construction and the CSIR or as detailed by the designer of the SABS Code of Practice: "The Design, Manufacture and Erection of Timber Roof Trusses"			
<u>TRUSS LOADING</u>			
The trusses shall be designed for:			
*Roof Cover: 0,55mm Metal roof sheeting			
*Max Purlin centres: 900mm			
*Ceilings: Plasterboard/Fibre-cement ceilings			
*Overhang Min 600mm			
<u>TRUSSES</u>			
a. All the roof trusses to be at the average 1 177mm centres and constructed for approximately 25deg pitch unless otherwise stated			
b. All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take corrugated roof coverings, purlins and fibre-cement or plasterboard ceilings with bracing. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanised metal spiked connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions			
c. Unless otherwise described all rafter feet are to extend 600mm beyond the length of the tie beam, with ends twice splay cut			
d. Upon completion of the contract the Registered Professional Engineer must issue to the Principal Agent a certificate to the effect that the roof has been erected in accordance with his approved design, under his supervision and that the entire roof is structurally stable. The lump sum price of the roof trusses shall include for the design and supervision by a Registered / Professional Engineer and for all necessary runners, overhangs wrought all round and trimmed and splay cut			
Carried Forward		R	
Bill No. 4 Carpentry & Joinery			

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	as required, braces, hoisting and fixing, etc., but shall exclude fixing brackets and hurricane clips, wall plates, fascias, barge boards, roof coverings, purlins, etc. which are all separately measured e. The tenderer's attention is drawn to the fact that the description of the trusses only represents the overall size (fascia to fascia) and not the required design f. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR g. Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, etc. and for any temporary bracing			
	<u>DOORS</u>			
	<u>Wrot Meranti framed, ledged and braced batten doors with 40x110mm stiles and top rail, 20x150mm middle ledge, 20x225mm bottom ledge and 20x110mm braces, hung to steel frames:</u>			
1	44mm Thick door size 813 x 2032mm with rebated meeting styles	No	4	
	<u>44mm Hollow core flush panel door with 6mm hardboard on both sides and hardwood edge strips to all sides, hung to steel frames:</u>			
2	Door size 813 x 2032mm high	No	6	
	<u>FRAMED FRAMES ETC</u>			
	<u>Wrought meranti</u>			
3	76 x 76mm Frame rebated frame for 813 x 2032mm high door	No	10	
	Carried to Summary		R	
	Bill No. 4 Carpentry & Joinery			

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<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>BILL NO. 5</u> <u>CEILINGS, PARTITIONS & ACCESS FLOORING</u> <u>MODEL PREAMBLES</u> <p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Descriptions</u> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p> <u>Trade Names</u> <p>Where trade names are specified equal materials approved by the Principal Agent may be used</p>			
	<u>Note:</u> <u>NAILED UP CEILINGS</u> <u>9,5mm "Rhino" Gypsum ceiling boards fixed to 38 x 38mm SA pine tanalith treated brandering @ 400mm c/c prepared and skimmed with cretestone skimming plaster all in strict accordance with the manufacturer's specifications:</u>			
1	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres.	m2	259	
	<u>"Rhino" gypsum plasterboard cornices</u>			
2	75mm Coved cornices	m	345	
	Carried Forward			
	Bill No. 5 Ceilings, Partitioning & Access Flooring (Provisional)			
			R	

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Item No	Quantity	Rate	Amount
<u>BILL NO. 6</u>			
<u>IRONMONGERY</u>			
<u>MODEL PREAMBLES</u>			
The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Keys/locks</u>			
Each lock is to be distinctly numbered with consecutive numbers and each key is to be stamped with corresponding number to the lock that it controls. All locks are to have two keys			
<u>Trade Names</u>			
Where trade names are specified equal materials approved by the Principal Agent may be used			
<u>Fixing</u>			
Fixing of ironmongery is deemed to be fixed to timber unless otherwise described			
<u>HINGES, BOLTS, ETC</u>			
1	"Buchel ref. B1321" 100 x 75mm brass butt hinge	No 30	
<u>LOCKS</u>			
<u>"Union"</u>			
2	Union 2261-76SS 4-lever upright lock	No 10	
<u>SUNDRIES</u>			
3	Brass door stop plugged code BBDS	No 6	
Carried to Summary			R
Bill No. 6 Ironmongery (Provisional)			

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Item No	Quantity	Rate	Amount
<p><u>BILL NO. 7</u></p> <p><u>PLASTERING</u></p> <p><u>MODEL PREAMBLES</u></p> <p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p>			
<p><u>INTERNAL PLASTER</u></p> <p><u>One coat (1:5) cement plaster to brickwork finished with a steel trowel on</u></p>			
1	Walls	m2	88
<p>Carried to Summary</p>			R
<p>Bill No. 7 Plastering</p>			

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 8</u></p> <p><u>PAINTWORK</u></p> <p><u>MODEL PREAMBLES</u></p> <p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Trade Names</u></p> <p>Where trade names are specified equal materials approved by the Principal Agent may be used</p> <p><u>Colours, etc.</u></p> <p>Unless otherwise described all paintwork shall be deemed to have colour value in excess of 7 on Munsell system in accordance with SANS 1091</p> <p><u>PREPARATORY WORK TO EXISTING WORK</u></p> <p><u>Previously painted metal surfaces</u></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p><u>Previously painted wood surfaces</u></p> <p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</p>			
<p style="text-align: center;">Carried Forward</p> <p>Bill No. 8 Paintwork</p>		R	

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	Brought Forward		R	
	<u>PAINTWORK TO NEW WORK</u>			
	<u>ON PLASTER, ETC.</u>			
	<u>Clean down, fill defects with Polycell Mendall 90, apply one coat Plascon Plaster Primer and two coats Plascon Waterbased Velvaglo paint in strict accordance with the Manufacturer's instructions on</u>			
1	Internal plastered walls	m2	66	
	<u>Clean down, fill defects with Polycell Mendall 90, apply one coat Plascon Plaster Primer and two coats Plascon Double Velvet paint in strict accordance with the Manufacturer's instructions on</u>			
2	Gypsum or NUTEC CAPCO skimmed ceilings	m2	259	
	<u>ON WOOD SURFACES, ETC.</u>			
	<u>Sand down, remove dust with a damp cloth and apply two coats Plascon Woodcare Clear Suede Waterbased Premium Interior varnish allowing to dry and sanding lightly between coats, all in strict accordance with the Manufacturer's instructions, on</u>			
3	Doors and frames	m2	69	
	<u>PREVIOUSLY PAINTED SURFACES</u>			
	<u>Clean down , etc ., and apply two coats of exterior quality emulsion paint as SABS Specification 1586 Grade 1 of semi gloss designation on :</u>			
4	Plastered walls internally	m2	726	
5	Plastered walls externally	m2	214	
	Carried to Summary		R	
	Bill No. 8 Paintwork			

Item No	Quantity	Rate	Amount
BILL NO. 9			
<u>TILING</u>			
<u>Preambles</u> The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained			
<u>FLOOR TILING</u>			
<u>Allow for the cost of Porcelain Floor Tiles and installation complete including, labour, waterproof adhesive and grout and aluminium movement joints as required to floors</u>			
1	Allow for procuring of to be selected by the Client including labour and all sundry materials required.	m2	21
<u>WALL TILING</u>			
2	Allow for procuring of Wall Tiles including labour and all sundry materials required for fixing to plastered walls.	m2	53
<u>SHOWER FLOOR TILING</u>			
3	Allow for procuring of Shower Tiles including labour and all sundry materials required for fixing.	m2	3
Carried to Summary			R
Bill No. 9 Tiling			

**CITY OF UMHLATUZE UPGRADE OF ESIKHALENI INTERSECTION
BLOCK A1 AND A2**

<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>BILL NO. 10</u>			
<u>PLUMBING & DRAINAGE (PROVISIONAL)</u>			
<u>Preambles</u> The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained			
<u>Descriptions and Preambles</u> Tenderers are referred to Trades to follow hereafter for preambles and full descriptions of materials and items not fully described in this Trade and which shall apply equally to work in this Trade, unless otherwise described.			
<u>Trade Names and Proprietary Products:</u> All descriptions or clauses where trades names or proprietary products are specified, are deemed to include the phrase "or other approved".			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>PROCUREMENT OF SANITARY FITTINGS & ACCESSORIES</u> Sanitary Fittings and all accompanying taps, mixers, wastes, traps, etc. are to be procured by the Contractor consequent upon selection by the Client and must allow for his profit and overheads by adding same the stipulated Prime Cost Allowance.			
<u>INSTALLATION OF SANITARY FITTINGS & ACCESSORIES</u> The Contractor is to allow for all labour and sundry materials required for installing and connecting the Sanitary Fittings and accessories to services			
Carried Forward			R
Bill No. 10 Plumbing & Drainage (Provisional)			

**CITY OF UMHLATUZE UPGRADE OF ESIKHALENI INTERSECTION
BLOCK A1 AND A2**

<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	Brought Forward		R	
	<u>SANITARY FITTINGS (TO BE SELECTED BY CLIENT)</u>			
	<u>Allowance for cost of the following Sanitary Fittings inclusive of all accompanying taps, mixers, wastes, traps, screens, shower heads, etc. and installation complete, including labour and sundry materials required for connecting to services. (Water supply & waste pipes elsewhere allowed for in these Bills of Quantities)</u>			
1	Allow for procuring of Basin and all accompanying taps, mixers, valves, wastes, traps, valves, etc., including labour and all sundry materials required for installing and connecting to services. (Water supply & waste pipes elsewhere measured in these Bills of Quantities)	No	2	
2	Allow for procuring of Shower spouts, taps, mixers, valves, wastes, traps, valves, etc., including labour and all sundry materials required for installing and connecting to services. (Water supply & waste pipes elsewhere measured in these Bills of Quantities)	No	4	
3	Allow for procuring of Sink and all accompanying taps, mixers, valves, wastes, traps, valves, etc., including labour and all sundry materials required for installing and connecting to services. (Water supply & waste pipes elsewhere measured in these Bills of Quantities)	No	4	
	<u>SANITARY PIPE WORK</u>			
	<u>uPVC (S&V) pipes to comply with SABS 967</u>			
4	50mm Pipe	m	14	
	<u>Extra over uPVC (S&V) pipes for fittings:</u>			
5	50mm Bend Plain (87.5° & 135°)	No	10	
6	50mm Bend Access Heel (87.5° & 135°)	No	10	
	Carried Forward		R	
	Bill No. 10 Plumbing & Drainage (Provisional)			

**CITY OF UMHLATUZE UPGRADE OF ESIKHALENI INTERSECTION
BLOCK A1 AND A2**

<u>Item No</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	Brought Forward			R	
	<u>WATER SUPPLY</u>				
	<u>Class 460/0 copper pipes</u>				
7	15mm Pipes	m	10		
8	22mm Pipes	m	8		
	<u>Extra over copper pipes for 'Conex' (Compression) fittings</u>				
9	15mm Fittings	No	10		
10	22mm Fittings	No	8		
	<u>Extra over copper pipes for 'Copcal' (Capillary) fittings</u>				
11	15mm Fittings	No	10		
12	22mm Fittings	No	8		
	<u>TESTING</u>				
13	Allow for testing of all the plumbing system both internal and external to the complete satisfaction of the Employer and for replacing any defective work at the Contractor's expense and re-testing until found to be perfect				
		Item			
	Carried to Summary			R	
	Bill No. 10 Plumbing & Drainage (Provisional)				

**CITY OF UMHLATUZE UPGRADE OF ESIKHALENI INTERSECTION
BLOCK A1 AND A2**

Item No	Quantity	Rate	Amount
BILL NO. 11			
<u>PROVISIONAL SUMS</u>			
Note:			
The following allowances are for specialist activities to be performed as SELECTED SUB-CONTRACTS			
<u>ELECTRICAL RETICULATION (INCLUDING FITTINGS AND LUMINAIRES)</u>			
1	Item		30 000.00
Allow the provisional sum of R 30,000.00 for the complete Electrical Reticulation, including light fittings, all as per the specification of the Architect			
2	Item		
Allow for Attendance			
3	Item		
Allow for Profit			
<u>BUILT-IN CUPBOARDS, SHELVES, COUNTERS, ETC.</u>			
4	Item		8 000.00
Allow the provisional sum of R 8,000.00 for the installation of all built-in cupboards, shelving, counters, etc. as per the specification of the Architect			
5	Item		
Allow for Attendance			
6	Item		
Allow for Profit			
Carried to Summary			R
Bill No. 11			
Provisional Sums			

**CITY OF UMHLATUZE UPGRADE OF ESIKHALENI INTERSECTION
BLOCK A1 AND A2**

FINAL SUMMARY		Page No	Amount
1	Preliminaries	1	
2	Alterations	6	
3	Masonry	8	
4	Carpentry & Joinery	13	
5	Ceilings, Partitioning & Access Flooring (Provisional)	15	
6	Ironmongery (Provisional)	16	
7	Plastering	17	
8	Paintwork	19	
9	Tiling	20	
10	Plumbing & Drainage (Provisional)	23	
11	Provisional Sums	24	
Sub Total A			R
Add : Value Added Tax at 15%			R
VALUE OF BUILDERS WORK			R
Carried to Form of Tender			R