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**KWIKSPAR KWAMAGXAKI
PORT ELIZABETH
EASTERN CAPE**

Item No	Description	Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 1</u></p> <p><u>REPAIRS AND RENOVATIONS TO EXISTING BUILDINGS (PROVISIONAL)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>View site</u></p> <p>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</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated</p> <p><u>Taking Out and Removal of Asbestos</u></p> <p>Taking out and removing asbestos roof, gutters, underlay, fibreglass, downpipes, etc. must be in strict accordance with health and occupational safety regulations and a specialist firm must be contracted to dispose of the material</p> <p><u>Demolitions</u></p> <p>All demolition work is to be carried out in accordance with the local by-laws.</p> <p>All demolition is to be carried out in strict accordance with the instructions and to the satisfaction of the Principal Agent.</p> <p style="text-align: right;">Carried forward</p> <p>Bill No. 1 ALTERATIONS</p>			
			R	

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Brought forward			R
<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 to acknowledge that sequencing of the work will be necessary to accommodate the operational aspects of the shop. The Contractor to accordingly factor the above requirement in the construction programme and pricing</p> <p>The Contractor will be held responsible for any damage to persons and property and for the safety of the structures and he is to allow for protecting and indemnifying persons using the existing buildings from injury by virtue of the building operations, including providing necessary barriers, signs, etc.</p>			
<u>REMOVAL OF EXISTING WORK</u>			
<u>Breaking up and removing reinforced concrete, including cutting off and removing reinforcement</u>			
2.1.1	150mm Thick surface beds	m2	18
2.1.2	Saw-cut joints top of existing concrete surface bed 3 x 30mm to accommodate the breaking up of concrete for new trenches.	m	52
<u>Breaking down and removing brickwork etc</u>			
2.1.3	Half brick walls	m2	291
2.1.4	One brick walls	m2	150
<u>Taking out and removing doors, windows, etc including thresholds, sills, etc and prepare surface to receive new door and gates</u>			
2.1.5	Timber single door size, door size 813 x 2032mm high.	No	24
Carried forward			R
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	Brought forward			R
2.1.6	Timber double door size, door size 1600 x 2032mm high.	No	6	
	<u>Taking out and removing doors, windows, etc including thresholds, sills, etc and building up openings in brick walls including making good cement plaster on both sides (making good paintwork elsewhere)</u>			
2.1.7	Steel window size 680 x 2100mm High	No	1	
2.1.8	Steel window size 1570 x 2100mm High	No	1	
2.1.9	Steel window size 1800 x 2100mm high	No	1	
2.1.10	Steel window size 2250 x 2100mm high	No	10	
2.1.11	Steel window size 2770 x 2100mm high	No	5	
2.1.12	Steel window size 3310 x 2100mm High	No	1	
	<u>Taking out and removing piping, sanitary fittings, etc including making good pipework to receive new fittings</u>			
2.1.13	Vitreous paraplegic WC pan with flush valve, including short lengths of piping, etc	No	6	
2.1.14	Vitreous china wash hand basin, including short lengths of piping, etc	No	5	
	<u>Taking out and removing sundry joinery work</u>			
2.1.15	Timber skirtings from brickwork	m	509	
	<u>Taking up and removing vinyl floor coverings, carpeting, etc</u>			
2.1.16	Ceramic tile floor covering including preparing screed for new vinyl floor covering	m2	895	
	<u>BUILDING UP OPENINGS</u>			
	Carried forward			R
	Bill No. 1 ALTERATIONS			

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Brought forward

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**Brickwork in NFP bricks in class II mortar in
building up openings**

2.1.17 One brick walls

m2

150

Carried Forward to Sectional Summary:

R

**Bill No. 1
ALTERATIONS**

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Item No	Description	Unit	Quantity	Rate	Amount
	<u>SECTION NO. 2</u>				
	<u>BILL NO. 2</u>				
	<u>EARTHWORKS (PROVISIONAL)</u>				
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Classification of materials</u>				
	The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "soft rock" or "hard rock"				
	If the contractor considers that any of the excavations are more difficult in nature than excavations in "earth", he shall immediately notify the Engineer and quantity surveyor in writing. If the contractor fails to make such notification, the excavations shall be deemed to be in "earth" and shall be measured, and valued, accordingly.				
	The contractor may, with the prior written permission of the Engineer and in terms of the conditions of contract, use any method he chooses to excavate any class of material, but his chosen method of excavation shall not determine the classification of the materials excavated.				
	<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				
	Carried forward			R	
	Bill No. 2 EARTHWORKS				

	Brought forward			R	
	<p><u>Keeping excavations free of water</u></p> <p>The contractor shall protect the excavations from the ingress of water. Any water which occurs in the excavations, whether as a result of seepage, rain, or other causes, shall immediately be removed by baling, pumping, or other approved means.</p> <p><u>Formwork</u></p> <p>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 of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p> <p><u>Spescification</u></p> <p>Where BOQ item descriptions are in conflict with Engineers specification, Drawing "General Notes". Then the Engineers specification is to take preference.</p>				
	<u>EXCAVATION OTHER THAN BULK</u>				
	<u>Excavate in earth not exceeding 2m deep</u>				
2.2.1	To reduce levels under floors	m3	3		
	<u>Excavation in earth not exceeding 2m deep</u>				
2.2.2	Trenches	m3	35		
	<u>Extra over trench and hole excavations in earth for excavation in</u>				
2.2.3	Soft rock	m3	3		
2.2.4	Hard rock	m3	7		
	Carried forward			R	
	Bill No. 2 EARTHWORKS				

	Brought forward			R	
	<u>WORKING SPACE</u>				
	<u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 95% Mod AASHTO density</u>				
2.2.5	for placing and removing formwork not exceeding 1500mm deep etc. 300mm away from excavated face	m2	104		
	<u>Extra over back excavation in earth for working space for excavation in soft rock</u>				
2.2.6	Back excavation in soft rock not exceeding 1500mm deep etc. 300mm away from excavated face	m2	3		
	<u>Extra over back excavation in earth for working space for excavation in hard rock</u>				
2.2.7	Back excavation in hard rock not exceeding 1500mm deep etc. 300mm away from excavated face	m2	21		
	<u>CARTING AWAY</u>				
	<u>Extra over all excavations for carting away</u>				
2.2.8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.(No allowance made for increase in bulk, to be factored in rate)	m3	15		
	<u>RISK OF COLLAPSE</u>				
	<u>Risk of collapse of excavations</u>				
2.2.9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	104		
	<u>KEEPING EXCAVATIONS FREE OF WATER</u>				
	<u>Keeping excavations free of water</u>				
2.2.10	Keeping excavations free of all water other than subterranean water		Item		
	Carried forward			R	
	Bill No. 2 EARTHWORKS				

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R

**Approved brand of anti-termite soil poison applied
by a Registered Pest control company and
guaranteed against termite infestation for ten years.
Soil Insecticide in accordance with SANS 5859**

2.2.17	Poisoning of ground surfaces under floors against termites as described including raking out 50 mm deep v-shaped channel against inner face of walls, etc., and flooding with termite poisoning as described	m2	18
2.2.18	To bottoms and sides of trenches etc	m2	140

Carried Forward to Sectional Summary:

R

**Bill No. 2
EARTHWORKS**

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Item No	Description	Unit	Quantity	Rate	Amount
	<u>SECTION NO. 2</u>				
	<u>BILL NO. 3</u>				
	<u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<p><u>Cost of tests</u></p> <p>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 architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)</p> <p><u>Concrete</u></p> <p>Where concrete is described as "cast against excavated surfaces" the Contractor is to allow in his rates for additional concrete to make up this tolerance/overbreak. The final net volumes of concrete shall be measurable from drawings only and no claims with regard to additional concrete to compensate for tolerances shall be entertained</p> <p>Contractors are to include for any supplementary materials, placing, pumping, vibration or waste on placed quantities etc.. that are required in order to provide for a fully installed rate. (Net placed volumes are measured in the bills of quantities)</p>				
	Carried forward				
	Bill No. 3 CONCRETE, FORMWORK AND REINFORCEMENT			R	

		Brought forward			R
		<p><u>Formwork</u></p> <p>Description 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>Formworks to soffits of slabs etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</p> <p>Formwork to sides of footings, beams, column bases, columns, etc., in foundations is to be finally measured and paid for only where specifically instructed by the appointed Consultant Engineer <u>in writing</u></p> <p><u>Specification</u></p> <p>Where BOQ item descriptions are in conflict with Engineers specification, Drawing "General Notes". Then the Engineers specification is to take preference.</p>			
		<p><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></p> <p><u>15MPa/19mm concrete</u></p>			
2.3.1	Surface blinding under footings and bases		m3	2	
		<p><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></p>			
		Carried forward			R
	<p>Bill No. 3 CONCRETE, FORMWORK AND REINFORCEMENT</p>				

**KWIKSPAR KWAMAGXAKI
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	Brought forward			R
	<u>25MPa/19mm concrete</u>			
2.3.2	Strip Footings	m3	9	
2.3.3	Surface beds	m3	18	
	<u>CONCRETE SUNDRIES</u>			
	<u>Test Blocks</u>			
2.3.4	Making and testing 150 x 150 x 150mm concrete strength test cube	No	4	
	<u>Finishing top surfaces of concrete smooth with a wood float finish</u>			
2.3.5	Surface beds, slabs, etc	m2	18	
	<u>FORMWORK</u>			
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>			
	<u>Rough formwork to sides</u>			
2.3.6	Strip footings not exceeding 300mm high or wide	m	104	
	<u>REINFORCEMENT (PROVISIONAL)</u>			
	<u>High tensile & Mild steel reinforcement to structural concrete work</u>			
2.3.7	Various Diameter Bars	t	0.91	
	<u>Fabric reinforcement</u>			
2.3.8	Type 193 fabric reinforcement laid in surface beds, bases etc.	m2	29	
	Carried Forward to Sectional Summary:			R
	Bill No. 3			
	CONCRETE, FORMWORK AND REINFORCEMENT			

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Item No	Description	Unit	Quantity	Rate	Amount
	<u>SECTION NO. 2</u>				
	<u>BILL NO. 4</u>				
	<u>MASONRY (PROVISIONAL)</u>				
	<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>Specification</u>				
	Where BOQ item descriptions are in conflict with Engineers specification, Drawing "General Notes". Then the Engineers specification is to take preference.				
	<u>Hollow walls</u>				
	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				
	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 "Brixal" bitumen emulsion waterproofing coating				
	<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				
	Carried forward			R	
	Bill No. 4 MASONRY				

	Brought forward			R	
	<u>BLOCKWORK</u> <u>Concrete masonry units</u> Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength as indicated in item descriptions <u>Blockwork</u> Blockwork shall comply with SANS 10145 "Concrete Masonry Construction"				
	<u>FOUNDATIONS</u> <u>BRICKWORK</u> <u>Brickwork of NFX (14 MPa nominal compressive strength) clay imperial bricks in cement mortar</u>				
2.4.1	One brick wall	m2	16		
	<u>SUPERSTRUCTURE</u> <u>BRICKWORK</u> <u>Brickwork of NFP clay bricks in class II mortar</u>				
2.4.2	One brick wall	m2	78		
	<u>BRICKWORK SUNDRIES</u> <u>Bagging of 1:3 cement and sand mixture</u>				
2.4.3	On outer face of inner skin of brick walls including any additional labour required in raising wall in two separate skins and working around wire ties and / or brick reinforcing fabric (LI)	m2	42		
	Carried forward			R	
	Bill No. 4 MASONRY				

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Item No	Description	Unit	Quantity	Rate	Amount
	<u>SECTION NO. 2</u>				
	<u>BILL NO. 5</u>				
	<u>WATERPROOFING (PROVISIONAL)</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>GENERAL</u>				
	<p>PREPARATION : All surfaces to receive waterproofing are to be thoroughly cleaned down to remove grease spots, concrete laitance, etc., wire brushed and free from dust and loose material and thoroughly dry before commencement of any waterproofing.</p> <p>SPECIALIST WATERPROOFER : The waterproofer shall apply the waterproofing and secondary materials in accordance with application techniques which are approved by the manufacturer of the waterproofing.</p>				
	Carried forward			R	
	Bill No. 5 WATERPROOFING				

<p style="text-align: right;">Brought forward</p> <p><u>MATERIALS</u></p> <p>GENERAL : All waterproofing to be layed in accordance with SABS 021-1973 "The Waterproofing of Buildings".</p> <p>BITUMEN : Bitumen primer is to be spread at a rate of 0,3 litres per m² and allowed to dry before the waterproof sheeting is laid.</p> <p>WATERPROOF SHEETING : Tenderers must allow for the design, supply and installation of all waterproofing for areas included . Tenderers are to include for the preparation of the substrate in accordance with manufacturers specifications.</p> <p>Proprietary waterproofing specifications available to tenderers include, but is not limited to, Derbigum, Index, Bituthene. Any proposed specification, which must have a proven track record, shall be submitted to the Principal Agent for comment and record purposes. The sub-contractor shall be an approved applicator of the chosen system/specification. The manufacturer is required to do regular inspections and be present at all flood and drench tests."</p> <p><u>PROTECTION</u></p> <p>All necessary precautions are to be taken for the protection of completed work.</p> <p><u>PRICES</u></p> <p>Prices are to include for all preparation of surfaces to receive waterproofing, preparation of surfaces between layers and for cleaning off on completion.</p> <p>Prices are to include for lapping and sealing, etc. and all cutting and waste.</p> <p style="text-align: right;">Carried forward</p> <p>Bill No. 5 WATERPROOFING</p>	<p style="text-align: center;">R</p>
	<p style="text-align: center;">R</p>

Brought forward			R
<u>WATERPROOFING GUARANTEE</u>			
GUARANTEE : The Contractor shall furnish a 10 year waterproofing guarantee for all the waterproofing including flashings, outlets and other details installed.			
<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
<u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u>			
2.5.1	In walls, in cavities, in lintels, under copings, under sills, etc.	m2	23
<u>One layer of 250 micron "Consol Plastics Gunplas USB Green" or equally approved waterproof sheeting sealed at laps with a suitable self adhesive tape</u>			
2.5.2	Under surface beds including turn ups	m2	18
<u>Two coats "ABE Brixal" or equal and approved bitumen emulsion waterproof coating</u>			
2.5.3	On brick walls	m2	42
<u>Two coats "Sika" cemflex latex waterproofing</u>			
2.5.4	On brick walls	m2	63
Carried Forward to Sectional Summary:			R
Bill No. 5 WATERPROOFING			

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Item No	Description	Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 6</u>			
	<u>METALWORK (PROVISIONAL)</u>			
	<u>HOT DIPPED GALVANISED MILD STEEL DOOR FRAMES</u>			
	<u>1,6mm Double rebated pressed steel door frames suitable for one brick walls</u>			
2.6.1	Frame for door 813 x 2032mm high	No 13		
	<u>STEEL ROLLER SHUTTERS ETC</u>			
	<u>Roller grilles fixed to brickwork or concrete</u>			
2.6.2	Manual push-up slatted roller shutter for 2400 x 3200mm high opening	No 7		
	<u>STEEL STRONGROOM DOORS, VENTILATORS, ETC</u>			
	<u>Strong room doors, etc.</u>			
2.6.3	'Category 2' or equal and approved 30mm thick pre-painted strong room door, approximate overall size 830 x 1932mm high including frame, all standard ironmongery, etc. supplied and fixed in accordance with the manufacturer's instructions all to the approval of the Architect	No 2		
	<u>STEEL FLOORS, STAIRS, ETC</u>			
	<u>Welded and bolted suspended floor</u>			
2.6.4	Expanded mesh with minimum of 1.6mm thickness including 25mm square tubing frame as per architectural drawings	m2 14		
	Carried Forward to Sectional Summary:		R	
	Bill No. 6 METALWORK			

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Item No	Description	Unit	Quantity	Rate	Amount
	<u>SECTION NO. 2</u>				
	<u>BILL NO. 7</u>				
	<u>PLASTERING (PROVISIONAL)</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>GENERAL</u>				
	V-Joints or the like between brick and concrete surfaces shall be deemed to be included in the external plaster on walls rate.				
	<u>SCREEDS</u>				
	<u>Screeds steel trowelled on concrete</u>				
2.7.1	30mm Thick on floors	m2	62		
	<u>GRANOLITHIC</u>				
	<u>Untinted granolithic, on concrete</u>				
2.7.2	30mm Thick on floors	m2	124		
2.7.3	Skirtings 100mm high	m	73		
	<u>INTERNAL PLASTER</u>				
	<u>Cement plaster on brickwork, blockwork or concrete finished with a steel trowel</u>				
2.7.4	On walls and brick piers	m2	306		
2.7.5	On narrow widths	m2	7		
	Carried Forward to Sectional Summary:				
	Bill No. 7 PLASTERING			R	

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Bill No	<u>SUMMARY</u>	Page No	Amount
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Item No	Description	Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 1</u>			
	<u>ACCESS RAMPS & STEPS (ALL TRADES)</u>			
	<u>(PROVISIONAL)</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)			
	<u>EARTHWORKS</u>			
	<u>SITE CLEARANCE ETC</u>			
	<u>Site clearance</u>			
3.1.1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc (LI)	m2	35	
	<u>EXCAVATION OTHER THAN BULK</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3.1.2	Reduce levels under floors	m3	3	
	<u>CARTING AWAY</u>			
	<u>Extra over all excavations for carting way</u>			
3.1.3	Surplus material from excavations and/or stocked piles on site to a dumping site to be located by the contractor	m3	3	
	<u>FILLING, ETC:</u>			
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density</u>			
3.1.4	Backfilling to trenches, holes, etc	m3	23	
	Carried forward			
	Bill No. 1			
	ACCESS RAMPS			

R

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Brought forward			R
<u>Layerworks</u>			
3.1.5	Imported G5 filling material from commercial sources by the contractor in accordance with SABS 1200 and the Engineers specifications, compacted in 150mm layers, to 95% Mod AASHTO density	m3	3
<u>COMPACTION</u>			
<u>Compaction of surfaces</u>			
3.1.6	Compaction of ground surfaces under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod. AASHTO density (LI)	m2	23
<u>TESTS</u>			
<u>Prescribed density tests on filling</u>			
3.1.7	Modified AASHTO Density test	No	2
3.1.8	"Field Density" test including "Optimum Moisture Content" (four readings per test)	No	2
<u>SOIL POISONING</u>			
<u>Soil insecticide in accordance to SANS 5859</u>			
3.1.9	Under concrete walkways, etc	m2	23
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>			
<u>20Mpa/19mm Concrete</u>			
3.1.10	Surface beds cast in panels	m3	4
<u>CONCRETE SUNDRIES</u>			
Carried forward			R
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	Brought forward			R
	<u>Finishing top surfaces of concrete with a broomed non-slip finish</u>			
3.1.11	Surface beds, slabs, etc.	m2	23	
	<u>Test blocks</u>			
3.1.12	Prepare a set of six concrete cubes each cube size 150 x 150 x 150mm for strength cubes and deliver to an approved laboratory for testing and pay all charges in connection therewith	Sets	1	
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>			
	<u>Rough formwork to sides</u>			
3.1.13	Edges, risers, ends and reveals n.e 300mm high	m	46	
	<u>MOVEMENT JOINTS, ETC</u>			
	<u>Expansion joints with 10mm softboard between vertical concrete surfaces</u>			
3.1.14	10mm Joints not exceeding 300mm high	m	46	
	<u>Fabric reinforcement</u>			
3.1.15	Type 193 fabric reinforcement in concrete surface bed, slabs, etc.	m2	23	
	<u>WATERPROOFING</u>			
	<u>Joint Sealants, etc</u>			
	<u>"ABE Flexothane" or equal and approved two-part grey polysulphide sealing compound including backing cord, bond breaking, primer, etc</u>			
3.1.16	In 10mm joints not exceeding 300mm high	m	46	
	Carried to Final Summary			R
	Bill No. 1 ACCESS RAMPS			

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EASTERN CAPE**

<u>FINAL SUMMARY</u>				
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	TOTAL		R	
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