

**REPAIRS AND MAINTENANCE OF IKHALA TVET COLLEGE : EZIBELENI
CAMPUS - TENDER NO - ITVETC-INFRA001/08/2022**

[illegible]

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<p style="text-align: right;">Brought Forward</p> <p><u>Water and other piping</u></p> <p>Any water supply or other piping that may be met with and found necessary to disconnect or cut are to be effectually stopped off or grubbed up and removed and any new connections that may be necessary are to be made with proper fittings and to the satisfaction of the Architect to whom due notice is to be given of all alterations to existing services. Prices for items of demolitions, are where applicable, to include for taking out and removing all sanitary fittings, plumbing and water supplies.</p> <p><u>Electrical and other services</u></p> <p>Special care is to be exercised not to unnecessarily interfere with any electric light, bell, power, telephone or other wires and fittings that may be met with and due notice must be given to the Architect when any disconnections, removals, diversions, interruptions, etc. are necessary and the Contractor is to afford every facility to the workmen carrying out this work.</p> <p><u>Protection, etc.</u></p> <p>The Contractor must protect all work not removed such as walls, floors, doors, windows, fittings, etc. from damage during the progress of the work and provide all necessary materials for doing so. All shoring, etc. of portions of the existing buildings necessary to ensure the stability of the premises while executing the demolitions or alterations is to be provided by the Contractor, who will be held solely responsible for any damage to persons or property and for the safety of the structure throughout the contract period. The Contractor will be required to make good at his own expense any damage that may occur.</p>		R	
<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 Bill No. 1 Alterations</p>		R	

<p style="text-align: right;">Brought Forward</p> <p><u>Existing buildings occupied</u></p> <p>Tenderers are advised that the existing buildings will be in occupation during the building operations and due allowance must be made for the work being carried out in such a manner as will least interfere with the general routine of the occupants.</p> <p>Adequate warning must be given if a particular section of the building has to be evacuated to carry out the work. The contractor should allow for this in his program as there will be no extension of time whatsoever will be entertained on failure of the contractor to properly arrange movement of the occupants in time.</p> <p><u>Noise prevention</u></p> <p>The Contractor shall take special care to minimise noisy operations during business hours. Such measures will include, inter alia, the use of silent compressors and strict control of workmen.</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 2 Bill No. 1 Alterations</p>		R	
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<p style="text-align: right;">Brought Forward</p> <p><u>Demolition, removals and works on site</u></p> <p>The Contractor shall demolish the portions of existing structure or buildings with a minimum amount of damage to adjoining buildings, materials, pavings, etc. Any damage caused is to be made good at his own expense with materials to match existing to the entire satisfaction of the Architect. Tenderers should take particular note of and allow accordingly in their prices for the type of structure and materials to be encountered and the thickness of walls, concrete slabs, etc. to be demolished. Unless otherwise described all materials arising from the demolitions and alterations are to become the property of the Contractor and he is to allow a credit for the same as provided for on the final summary page. These materials, including all rubbish and debris shall be immediately carted away and the site left clean and unencumbered. None of the old bricks from the demolitions are to be re-used for any new brickwork.</p>			R
<p>Section No. 2 Bill No. 1 Alterations</p>			R

Carried Forward

	<p style="text-align: center;">Brought Forward</p> <p><u>Bricking up, altering or breaking new openings in existing walls</u></p> <p>Where the Contractor is required to form openings, alter openings or brick up openings in existing walls all brickwork shall be made good at jambs including properly bonding to existing. Brickwork in bricking up openings shall be wedged and pinned up to brickwork or concrete over in cement mortar. Cement screeds, pavings, granolithic, etc. in openings are to be levelled and prepared for raising of brickwork. Plaster to reveals to openings are to have all external angles rounded and making good of finishes is to include for junction with existing finishes. Where openings are described as having new brick lintols they are to be with minimum 220 mm end bearings and prices are to include for brick reinforcement to suit the width of the wall. Lintols are to be three courses high up to span of 1 000 mm and four courses high when exceeding that span and brickwork is to be built in 1:3 cement mortar. Where openings are described as having precast prestressed concrete lintols they are to be with minimum 220 mm end bearings of 30 MPa concrete. One prestressed lintol for each half brick thickness is required and is to be reinforced with and including all necessary high tensile wire.</p> <p><u>Making good, etc.</u></p> <p>Prices are to include for making good in all trades to existing work, where damaged or disturbed through alterations, with all necessary new materials to match existing and leave complete and perfect in every respect.</p> <p><u>DEMOLISH, HACK UP/OFF, TAKE UP/OFF/OUT AND REMOVE</u></p> <p>NOTE : Tenderers are advised to study the "Standard Trade Preambles" before pricing this bill</p> <p>1 Breaking out one brick wall for door opening size 900 x 2032mm including making good to jambs and finishes all round.</p>			<p style="text-align: center;">R</p>
	<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 Bill No. 1 Alterations</p>			<p style="text-align: center;">R</p>

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	Brought Forward			R
2	Breaking up one brick wall carefully and remove debris	m2	5	
3	Build up opening size 950mm x 950mm.	No	3	
4	Open up, clean out, add ABE plaster key, re-grout, add expanded mesh 150mm either side of the crack, and re-plaster to match existing lime based 12-15mm plaster.	m	21	
5	50 x 76 mm Timber purlins.	m	1 144	
6	Corrugated iron roof sheeting.	m2	1 281	
7	Take off existing fascia boards, barge boards, etc	m	296	
8	Galvanised sheet iron ridge and hip covering.	m	56	
9	Tongued and grooved timber suspended floors including skirting, joists, bearers, etc	m2	62	
10	Gypsum plasterboard ceilings including cover strips, banding and cornices.	m2	666	
11	Scrap out and remove glass panes from steel windows including raking out old putty in sashes.	m2	103	
12	Take out door size 813 x 2032mm	No	54	
13	Timber double door with glass panels on top section. Size 1600 x 2 032 mm high overall.	No	3	
14	Timber door and frame. Size 810 x 2 032 mm high overall.	No	12	
15	Take out steel door frames and door from one brick wall and make good (Size 900 x 2032mm).	No	3	
16	Take out steel glazed window carefully overall size 1500 x 1900 mm high and set aside for re-use.	No	1	
17	Timber built in cupboard 900mm x 1200mm complete and set aside for re-use.	No	2	
	Carried Forward			R
	Section No. 2			
	Bill No. 1			
	Alterations			

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	Brought Forward			R
18	External plaster and prepare surfaces and apply ABE brick additive to receive new plaster (plaster elsewhere measured).	m2	716	
19	Internal plaster and prepare surfaces and apply ABE brick additive to receive new plaster (plaster elsewhere measured).	m2	1 648	
20	125 mm Diameter half round galvanised sheet iron eaves gutter.	m	271	
21	Hack up and remove existing screeds	m2	702	
22	Take out and remove wall tiles	m2	13	
23	Take out existing 19 x 69mm skirtings	m	732	
24	Take out double security gate overall size 1600 x 2064mm	No	1	
25	Take out single security gate overall size 877 x 2064mm	No	14	
26	Take out Steel roller shutter door	No	1	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
Bill No. 1				
Alterations				

Item No	Quantity	Rate	Amount
<u>SECTION No.2</u>			
<u>BILL NO.2</u>			
<u>EARTHWORKS (Provisional)</u>			
<u>PREAMBLES</u>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<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 Principal Agent			
<u>Nature of material to be excavated</u>			
The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"			
<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	
Section No. 2 Bill No. 2 Earthworks			

Brought Forward				R
<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>Density testing on filling</u>				
Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved				
When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally				
<u>CPAP WORK GROUP</u>				
Unless otherwise stated all items in this bill will be Work Group 104				
<u>Clear Site</u>				
1	Clear the whole of the site of all grass, roots, rubbish, etc. including stripping vegetable soil from the building area.	m2	15	
<u>Weed killers, Insentcides, etc</u>				
2	Weed all vegetation between brickpavers and apply approved weed killer.	m2	18	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
Bill No. 2				
Earthworks				

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO.3</u>			
	<u>FOUNDATIONS (PROVISIONAL)</u>			
	<u>EARTHWORKS</u>			
	<u>CLEAR SITE</u>			
1	Clear the whole of the site of all grass, roots, rubbish, debris, hedges and small trees not exceeding 200mm girth, etc. including stripping vegetable soil from the building area.	m2	200	
	<u>Excavate in pickable material not exceeding 2m deep below natural or reduced ground level</u>			
2	Surface trenches	m3	10	
3	Holes	m3	10	
	<u>Back excavation of vertical sides of excavation in earth exceeding 1500mm not exceeding 3000mm deep for working space including backfilling and compaction to 98% Mod. AASHTO density</u>			
4	For brickwork in pit holes, etc.	m2	2	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
5	Soft rock	m3	5	
6	Hard rock	m3	5	
	<u>Risk of collapse of excavations</u>			
7	Allow for risk of collapse to sides of excavations to column bases, trenches, etc. from ground level to not exceeding 1.5m deep	m2	20	
	Carried Forward			
	Section No. 2			
	Bill No. 3			
	Foundations			
			R	

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Brought Forward			R
<u>Earth filling obtained from the rubble material on site and compacted in layers not exceeding 150mm to achieve 95% Modified AASHTO density</u>			
8	Backfilling to trenches	m3	10
9	Backfilling to holes	m3	10
10	Under solid floors	m3	19
<u>Approved G7 filling supplied and carted on by the Contractor, compacted in layers not exceeding 150mm to 98% Mod. AASHTO density</u>			
11	Under solid floors	m3	74
<u>Approved river sand filling supplied and carted on by the Contractor</u>			
12	25mm layer under solid floors,etc.	m2	62
<u>Soil Poisoning</u>			
13	Termite poisoning of ground surfaces under solid floors by the treatment of ground in accordance with SABS 0124 and application in accordance with SABS 1164 and 1165	m2	62
<u>Concrete</u>			
<u>Mass concrete (30Mpa) in:</u>			
14	Wall footings cast against excavated surfaces (Provisional)	m3	1
15	Column bases in excavated surfaces	m3	1
16	Stub Columns	m3	1
<u>FORMWORK</u>			
<u>Formwork to sides of columns</u>			
17	Sides of concrete stub columns	m2	1
Carried Forward			R
Section No. 2 Bill No. 3 Foundations			

Brought Forward			R
<u>Formwork to sides of circular columns</u>			
18	Circular formwork to sides of columns ne 1m radius.	m2	1
<u>REINFORCEMENT (PROVISIONAL)</u>			
<u>Mild and high tensile steel reinforcement to structural concrete work</u>			
19	12mm Diameter bars	t	1.00
20	8mm Diameter bars	t	1.00
<u>Masonry</u>			
<u>Stock Bricks in (5:1) cement mortar</u>			
21	One brick wall	m2	10
<u>Reinforcement</u>			
22	"Cotts No. C2" or other approved high tensile steel brick reinforcement 150mm wide well lapped at all angles and passings and built into brick walls	m	5
<u>Facings externally</u>			
<u>Selected facing bricks (PC amount of R6000.00 per thousand bricks delivered to site net) pointed with square recessed horizontal and vertical joints</u>			
23	Extra over ordinary brickwork for facing in stretcher bond and pointing as described	m2	2
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 3			
Foundations			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 4</u>			
	<u>CONCRETE FORMWORK AND REINFORCING</u>			
	<u>Concrete</u>			
	<u>Concrete tests and blocks</u>			
1	Prepare set of three concrete cubes each size 150 x 150 X 150mm and deliver to an approved laboratory for testing and pay all charges (Provisional)	Sets	8	
2	The cost of preliminary tests prior to approval of the Contractor's materials and mixes shall be borne by the Contractor.	Item		
	<u>Mass concrete (20Mpa) in :</u>			
3	Surface bed.	m3	6	
4	Steps.	m3	2	
	<u>Slabs</u>			
5	25 Mpa reinforced concrete in slabs	m3	1	Rate Only
	<u>Mass concrete (30Mpa) in :</u>			
6	Reinforced concrete in surface beds	m3	1	
7	Reinforced concrete in beams, stairs and landings	m3	1	Rate Only
	<u>Precast Concrete Lintols</u>			
8	115 x 76mm Reinforced concrete lintol and building into brickwork over openings including temporary propping	m	20	
	Carried Forward			
	Section No. 2			
	Bill No. 4			
	Concrete, formwork and reinforcing			
			R	

Brought Forward			R
<u>Sundries</u>			
9	Floating tops of surface beds laid in panels, to a perfectly smooth , level and true steel float finish including slightly rounded edges to panels	m2	40
<u>FORMWORK</u>			
<u>Smooth formwork to sides of columns</u>			
10	Sides of concrete columns	m2	1
<u>Smooth formwork to soffits of slabs and including propping up exceeding 1.5m not exceeding 3.5m high.</u>			
11	Underside of Slabs ne 250mm thick.	m2	1
<u>Smooth formwork to:</u>			
12	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	5
<u>REINFORCEMENT (PROVISIONAL)</u>			
<u>Mild and high tensile steel reinforcement to structural concrete work</u>			
13	10mm Diameter bars	t	1.00
<u>Reinforcement</u>			
14	Ref 193 Mesh reinforcement	m2	62
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 4			
Concrete, formwork and reinforcing			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 5</u>			
	<u>MASONRY</u>			
	<u>Brickwork</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>Stock Bricks in (5:1) cement mortar</u>			
1	Brickwork in piers	m3	2	
2	Brickwork in attached piers	m3	1	
3	Half brick walls	m2	5	
4	One brick wall	m2	20	
5	One brick wall in beamfilling	m2	20	
	<u>Brickwork Sundries</u>			
	<u>Ties and Cramps</u>			
6	2 x 40mm Galvanised hoop iron tie 700mm long built six courses into top of brickwork and other end wrapped around and spiked to rafter	No	150	
7	2 x 40 mm Galvanised hoop iron tie 350 mm long built 150 mm into brickwork and other end spiked to timber door frame.	No	20	
	<u>Reinforcement</u>			
8	"Cotts No. C1" or other approved high tensile steel brick reinforcement 75mm wide well lapped at all angles and passings and built into brick walls	m	5	
	Carried Forward			
	Section No. 2 Bill No. 5 Masonry			

	Brought Forward			R
9	"Cotts No. C2" or other approved high tensile steel brick reinforcement 150mm wide well lapped at all angles and passings and built into brick walls	m	10	
	<u>Bagging and sealing the inner face of the existing inner skin of walls with 1:3 cement and sand mixture and seal with three coats "Brixal" bitumen emulsion waterproofing coating:</u>			
10	To walls (Provisional).	m2	74	
	<u>Joint forming material in movement joints</u>			
11	12mm Fibre board built in vertically between brick skins not exceeding 300mm wide	m	1	
	<u>Face Brickwork</u>			
	<u>Facings internally</u>			
	<u>Selected facing bricks (PC amount of R6000.00 per thousand bricks delivered to site nett) pointed with square recessed horizontal and vertical joints</u>			
12	Half brick walls	m2	1	
13	Extra over ordinary brickwork for facing in stretcher bond in bands and pointing as described	m2	1	
	<u>Turning pieces</u>			
14	Turning piece for 230mm wide lintel not exceeding 1m	m	1	
	<u>Fibre Cement Cills</u>			
15	150 mm Wide x 15 mm thick natural grey pressed fibre cement cill complete with fixing lugs on underside bedded on flat and slightly projecting internally and pointed in (3:1) cement mortar including notching around reveals at ends.	m	70	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
Bill No. 5				
Masonry				

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Brought Forward			R
<u>Flat roof covering</u> NOTE: All flat roof coverings are to be executed by an approved firm or specialists in this type of work. The contractor is to obtain a ten year maintenance free guarantee on behalf of the employers from the specialist firm and he is to deposit same with the Architect before any work is commenced.			
5	Covering consisting of " Index Fidra " natural stone chipping finish (MS) or other approved torch-on waterproofing sheeting to flat slope laid to falls and bonded to screed (elsewhere measured) lapped a minimum of 100 mm at ends and 75 mm at sides of sheets and with all internal and external corners double covered with a minimum 300 mm wide internal strip, all dressings, turn-ups and turn-downs, thoroughly cleaning surface of screed in accordance with the manufacturer's instructions. (Provisional)	m2	14
6	Patent glass fibre sealing strip.	m	1
<u>4 mm "Index unigum Biarmato Plain" APP modified waterproofing sheeting in twin carrier laid all as per manufacturer's specification including bituprime primer</u>			
7	On flat roofs dressed into gutter system 200 mm wide	m	2
8	Sealing edges to brickwork or concrete including trowelled mastic bead	m	20
<u>PROTECTIVE ROOFING PAINT</u> <u>Two coats "Silvakote" bituminous aluminium paint</u>			
9	On waterproofing to roofs	m2	14
Carried Forward to Summary of Section No. 2			R
Section No. 2 Bill No. 6 Waterproofing			

Carried Forward to Summary of Section No. 2

Section No. 2
Bill No. 7
Roof coverings etc

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Brought Forward			R
<p><u>The following trusses shall be "Gangnail" or other approved engineering designed roof trusses manufactured from sawn S.A.Pine as described at average 1100mm centres to support 0.6mm thick corrugated iron roofing with 4mm " Cladit " ceilings under, including hoisting and fixing in position approximately 3m above bearing level</u></p>			
7	Double pitched roof truss 5100mm overall wide span between wall plates,in not exceeding 30 degree pitch with 900mm eaves overhang both ends	No	2
8	Double pitched roof truss 8000mm wide span between wall plates, to 45 degree pitch with no overhang both ends.	No	7
9	Double pitched roof truss 9150mm overall wide span, with 6780mm span between wall plates and 2000mm cantilever,not exceeding 30 degree pitch with 600mm eaves overhang both ends	No	4
10	Half truss 5100mm wide span with rafter projecting 1000mm to apex, to pitch ne 30 degrees pitch with 900mm overang.	No	5
11	Allow for bracing, cross bracing, connecting clips , fixing brackets , etc., as required for fixing in position of roof trusses as described in accordance with the manufacturer's instructions.		Item
<u>Eaves and Verges</u>			
12	15 x 225mm "Everite" pressed fibre cement fascia and barge board drilled and brass screwed to and including 38 x 50 x 114mm long S.A.P. cleats screwed to rafter feet including H - profile jointing strips	m	322
13	Extra for splay cut end	No	7
14	Extra for apex mitre	No	7
<u>Skirtings</u>			
Carried Forward			R
Section No. 2 Bill No. 8 Carpentry and joinery			

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Brought Forward			R
<u>Wrot Meranti</u>			
15	19 x 70mm Skirting with 19mm quadrant bead planted on including grouting solid at back against facings in cement mortar, cutting mitres, etc	m	732
<u>Doors</u>			
<u>FL&B Doors</u>			
16	Purpose made 44mm thick hardwood meranti solid timber double door (size 1600 x 2032mm) with rebated meeting stiles and glass panels in top section refer to door schedule attached at the back of these bills of quantities. (DC1)	No	1
17	44mm thick wrot meranti framed,ledged and braced batten double door (size 1613 x 2032mm) with rebated meeting stiles with and including 6mm plywood panel. (DC14)	No	1
18	44mm Thick wrot meranti framed, ledged and braced batten door size 813 x 2032mm with and including 6mm plywood panel. (DC4)	No	21
19	50 x 100mm Wrot meranti rebated and splayed weatherboard screwed to door and bedding in thick white lead	m	5
<u>Semi-solid flush doors with hardwood concealed edge strips and finished both sides with Sapele Mahogany veneer</u>			
20	44mm Thick door size 813 x 2032mm (DC2)	No	40
21	44mm Thick door size 813 x 1882mm (DC3)	No	5
<u>Door frames, etc.</u>			
<u>Wrot Meranti</u>			
22	19 mm Quadrant moulding planted on.	m	15
23	19 x 70 mm Architrave planted on.	m	15
Carried Forward			R
Section No. 2 Bill No. 8 Carpentry and joinery			

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Brought Forward			R
24	70 x 108 mm Rebated framed frame.	m	15
<u>Pinning boards</u>			
25	10mm Insulation board backing glued to walls with an approved adhesive, including all square cutting and waste	m2	49
26	Carpet (PC Amount R 70 m²) delivered to site and glued to insulation board with an approved adhesive	m2	49
27	32 x 44mm Sawn SA Pine rebated surround plugged to walls with heads of screws sunk and pelleted	m	120
28	32 x 44mm Wrot meranti twice rebated transome plugged to walls with heads of screws sunk and pelleted	m	1
<u>Sundries</u>			
29	Two coats creosote on sawn timbers	m2	12
30	"Hurricane clip" between truss and windbracing(Provisional)	No	10
31	90° Galvanised mild steel truss hanger fixed to brick wall	No	2
<u>Shelves, cupboards, etc. (Provisional)</u>			
<u>Wrought meranti</u>			
32	Slatted seats of 38 x 50mm twice chamfered slats at 60mm centres screwed through steel at 540mm centres including holes	m2	6
33	High quality meranti dado rail size 20 x 50mm high, plugged and screwed to walls at 1100mm above finished floor level.	m	57
<u>Wrot Laminated South African Pine</u>			
34	19 x 450mm Shelves	m	118
Carried Forward			R
Section No. 2 Bill No. 8 Carpentry and joinery			

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Brought Forward			R
<u>Budgetary Allowances</u>			
35	Allow the Budgetary Sum of R 9000. 00 (nett) for supply and installation of built in cupboards to Kitchen. Block A	Item	
36	Allow the Budgetary Sum of R 9000. 00 (nett) for supply and installation of built in cupboards to Kitchen. Block E	Item	
37	Allow the Budgetary Sum of R 25000. 00 (nett) for new counter or repair existing counter and including statement counter. All to architect specifications. Block A	Item	
38	Allow the Budgetary Sum of R 105 000. 00 (nett) for supply and installation of Built in Cupboards in Block G to architect's approval.	Item	
39	Allow the Budgetary Sum of R 125 000. 00 (nett) for supply and installation of Built in Cupboards in Block B to architect's approval.	Item	
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 8			
Carpentry and joinery			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 9</u>			
	<u>CEILINGS, PARTITIONING AND ACCESS FLOORING</u>			
	<u>Ceilings</u>			
	<u>Sawn S A Pine</u>			
1	Branding for ceiling formed with 38 x 50mm battens at 400mm centres in one direction, with cross branding at inter- sections and ends of ceiling boards	m2	622	
	<u>4mm fibre cement boards</u>			
2	4mm Ceiling boarding fixed butt jointed to branding (elsewhere measured) including H-profile steel joining strips fixed in joints between boards	m2	666	
3	6mm Ceiling boarding fixed butt jointed to branding (elsewhere measured) including H-profile steel joining strips fixed in joints between boards	m2	5	
4	75 mm Wide" Gypsum or other approved" coved cornice plugged to walls including mitres, etc.	m	746	
	<u>Wrot Meranti</u>			
5	22x40mm Meranti cornice with 6mm shadow line.	m	50	
	<u>Trap doors etc.</u>			
6	Extra over ceiling boards for cutting in and forming trap door size 600 x 600mm, in- cluding trimming, skeleton frame, boarding, fillets, steel butts, bow handle, barrel bolt, etc (Provisional)	No	3	
	<u>Insulation</u>			
	Carried Forward		R	
	Section No. 2			
	Bill No. 9			
	Ceilings, partitions and acces flooring			

		Brought Forward			R
		<u>Insulation (Provisional)</u>			
7	50mm Insulation closely fitted and laid on top of brandering between roof timbers etc	m2	682		
		<u>Aluminium foil (Provisional)</u>			
8	4mm (fire retardant) double sided aluminium foil insulation complying SANS 428, laid on top of timber rafters before fixing purlins, commencing at the eaves, ensuring subsequent sheet overlaps the previous sheet by 100mm, taped down.	m2	1 281		
Carried Forward to Summary of Section No. 2					R
Section No. 2					
Bill No. 9					
Ceilings, partitions and acces flooring					

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 11</u>			
	<u>IRONMONGERY</u>			
	<u>NOTE :Tenderers are advised to study the "Standard Trade Preambles" before pricing this bill.</u>			
	<u>Note:Rates for ironmongery are to include for forming all mortices, recesses, sinkings, etc. in timber and all preparation work to pressed steel door frames required to receive the article concerned</u>			
	<u>Supply and fix the following to steel doors, etc.</u>			
1	Flush Bolt 150 Nickel Plated 8052-150NP	No	2	
2	Flush Bolt 200 Nickel Plated 8052-200NP	No	2	
3	8852SC Dust Proof Strike.	No	2	
4	2 x 18SCMKD cylinder profile master keyed.	No	43	
5	L-2215-78SS/SL Profile cylinder lockset soft latch.	No	43	
6	22314L-76SS, 314 Doorlock SS.	No	2	
7	22314R-76PL, 314 Doorlock PL.	No	5	
8	2915SC Rebate Set Sc.	Sets	2.0	
9	CB612-05SC Protea lever furniture.	Sets	43.0	
10	CZ692-24SC Radius Furniture Keyhole.	No	12	
11	SS8025SS Hat and Coat Hook with buffer.	No	8	
12	CB612TL-73SC Protea Furniture Bathroom	No	2	
	Carried Forward			
	Section No. 2 Bill No. 11 Ironmongery		R	

**REPAIRS AND MAINTENANCE OF IKHALA TVET COLLEGE : EZIBELENI
CAMPUS - TENDER NO - ITVETC-INFRA001/08/2022**

	Brought Forward			R
13	CB612TR-73SC Protea Furniture Bathroom	No	5	
14	87001SS Floor door stop.	No	46	
15	Overhead rack and pinion hydraulic adjustable power 737 EN 3-5 silver regular arm overhead door closer, with adjustable back to internal door of width up to 850mm wide suitable for wall nib dimension 47mm.			
		No	2	
16	SS5515-200BTSS, 200mm Pull handle bolt through.	No	3	
	<u>The following to galvanized mild steel gates</u>			
17	3122/50mm Brass padlock with stainless steel shackles.	No	5	
	<u>1.6 mm Thick grade 430 stainless steel plate drilled and countersunk for screw fixing:</u>			
18	SS5023-304W Push Plate 152 x 304mm.	No	2	
	<u>Master keys</u>			
	<u>Note:All cylinder mechanisms are Grand Master keyed in six Sub suites to allow for four Sub Master keys per Sub suite.</u>			
19	Master keys.		Item	
	<u>LOCKS,ETC</u>			
20	SS5066-06SSE10 Male indicator sign.	No	1	
21	SS5066-06SSE11 Female indicator sign.	No	1	
22	Three lever mortice lock only as "2252-76" with striking plate fixed to timber door frame.	No	15	
	Carried Forward			R
	Section No. 2			
	Bill No. 11			
	Ironmongery			

**REPAIRS AND MAINTENANCE OF IKHALA TVET COLLEGE : EZIBELENI
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Brought Forward			R
<u>CATCHES, CABIN HOOKS, ETC</u>			
23	Pair of Dorma brass standard butt hinges code DBB-BR-011 size 102 x 75 x 3mm, for door size 813 x 2032mm.	No	12
24	Halcast No.166 200 mm SC on Brass cabin hook and eye.	No	19
<u>LETTERS, NAMEPLATES, ETC.</u>			
<u>Acrylic door plates:</u>			
25	40 x 40 x 5mm Thick black acrylic door number plate with two numbers size 25mm high, engraved with arial font and painted white, fixed to door, door frame or wall with chromium plated domeheaded screws.	No	1
26	250 x 40 x 6mm Thick white acrylic door name plate with ten letters size 30mm high, engraved with arial font and painted navy, fixed to door, door frame or wall with double sided adhesive tape (Provisional).	No	14
27	250 x 40 x 6mm Thick white acrylic door name plate with ten to fifteen letters size 30mm high, engraved with arial font and painted navy, fixed to door, door frame or wall with double sided adhesive tape (Provisional).	No	3
28	250 x 40 x 6mm Thick white acrylic door name plate with fifteen to twenty letters size 30mm high, engraved with arial font and painted navy, fixed to door, door frame or wall with double sided adhesive tape (Provisional).	No	9
29	250 x 40 x 6mm Thick white acrylic door name plate with twenty to twenty five letters size 30mm high, engraved with arial font and painted navy, fixed to door, door frame or wall with double sided adhesive tape (Provisional).	No	3
Carried Forward			R
Section No. 2 Bill No. 11 Ironmongery			

**REPAIRS AND MAINTENANCE OF IKHALA TVET COLLEGE : EZIBELENI
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Brought Forward			R
30	250 x 40 x 6mm Thick white acrylic door name plate with twenty five to thirty letters size 30mm high, engraved with arial font and painted navy, fixed to door, door frame or wall with double sided adhesive tape (Provisional).	No	3
<u>Sign plates:</u>			
31	152 x 152 x 2mm Anodised silver engraved sign with Fire Extinguisher Pictogram E06, fixed to wall or door (AL5066E-06/2AS).	No	2
32	152 x 152 x 2mm Anodised silver engraved sign with Directional Pictogram E08, fixed to wall or door (AL5066E-08/2AS).	No	2
33	152 x 152 x 2mm Anodised silver engraved sign with Male/Female Pictogram E10/E11, fixed to wall or door (AL5066E-10/11/2AS).	No	1
34	152 x 152 x 2mm Anodised silver engraved sign with Male and Female Pictogram E12, fixed to wall or door (AL5066E-12/2AS).	No	1
35	152 x 152 x 2mm Anodised silver engraved sign with Paraplegic Pictogram E14, fixed to wall or door (AL5066E-14/2AS).	No	2
<u>ADJUSTABLE SHELVING</u>			
<u>Shelving system with ivory baked epoxy powder coating</u>			
36	Shelf brackets for 450mm timber shelves as type "WFO 18"	No	247
37	Wallbands, 2110mm long as type "WB7", plugged to brickwork or concrete	No	33
<u>PELMETS AND CURTAIN TRACKS</u>			
<u>"Curtain track, ETC"</u>			
38	Double curtain track for soffit fixing including 14 rollers per metre, brackets, stopped ends, etc	m	76
Carried Forward			R
Section No. 2 Bill No. 11 Ironmongery			

**REPAIRS AND MAINTENANCE OF IKHALA TVET COLLEGE : EZIBELENI
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 12</u>			
	<u>METALWORK</u>			
	NOTE : Tenderers are advised to study the "Standard Trade Preambles" before pricing this bill			
	<u>SUNDRY GALVANISED STEELWORK</u>			
	<u>Washing lines</u>			
1	3 mm Plastic covered wire in long lengths tightly drawn with ends wrapped around and fixed to straining eye bolts	m	50	
	<u>Mild Steel</u>			
2	Screw bolts with heads, nuts and washers (Provisional)	kg	5	
3	75 x 3mm Thick three times bent T- shaped roof truss bracket 375mm girth, three times holed for bolts (bolts and holes elsewhere measured).	No	5	
4	75 mm Outside diameter x 6.51kg/m tubular column 2 805 mm long with 150 x 150 x 10 mm base plate welded on to bottom end and top end having 150 x 3 mm thick x 375 mm girth channel-shaped bracket eight times holed for bolts (elsewhere measured) welded on and two raking tubular columns with 150 x 3 mm thick x 375mm girth channel as before including setting up in position and embedding bottom end in stub pier and concrete.	No	11	
	<u>Brass</u>			
5	6 x 50mm Weather bar cut to lengths and bedded in door openings including forming groove in top of concrete	m	18	
	<u>Balustrades</u>			
	Carried Forward			R
	Section No. 2			
	Bill No. 12			
	Metalwork			

Brought Forward				R
<u>The following in stainless steel balustrades</u>				
6	Handrail formed of 75mm diameter stainless steel rail supported on 50mm diameter uprights with 20mm diameter steel bar welded on for building in at 1 300mm centres including in-fill panels size 1 200 x 450mm high formed of 3mm thick steel plate with hammertone finish each end with three horizontal 50mm diameter rails and 30 x 19 mm square tubular framing with hammertone finish around.	m	8	
<u>PRESSED STEEL DOOR FRAMES, ETC</u>				
<u>1,2mm Thick double rebated pressed steel door frames with 1 pair hinges suitable for 44mm thick doors and half brick walls</u>				
7	Frame for door size 813 x 2032mm high	No	1	
<u>1,2mm Thick double rebated pressed steel door frames with 1 pair hinges suitable for 44mm thick doors and one brick walls</u>				
8	Frame for door size 813 x 2032mm high	No	11	
<u>STEEL WINDOWS</u>				
9	NDA opening out steel door with butt hinges hot dip galvanised, size 1181 x 2134mm high.	No	1	
10	NDSDDA steel sidelight hot dip galvanised, size 1511 x 2134mm high.	No	1	
<u>STEEL ROLLER SHUTTERS, SECURITY GATES ETC</u>				
11	Steel roller shutter door garage to suit opening size 2440 x 2100mm high with galvinised finish manually operated, including locks, handles hinges, fixing bolts, etc, fixed to wall with a minimum of 100mm side room and 350mm headroom	No	1	
Section No. 2				
Bill No. 12				
Metalwork				
Carried Forward				R

Brought Forward			R
<u>Security Gates</u>			
12	Double security gate size 1760 x 2 100 mm high formed of 25 x 25 mm hollow square section frame and 75 x 25 mm tubular steel middle rail welded at angles and intersections, with 12 mm diameter vertical infill bars welded to frame at 100 mm centres, with two 38 x 38 x 10 mm thick plates as hinges with rounded ends to one side and hole for 12 mm diameter pin, welded to gate frame. (DC10)	No	1
13	Single security gate size 900 x 2 064 mm high formed of 25 x 25 mm hollow square section frame and 75 x 25 mm tubular steel middle rail welded at angles and intersections, with 12 mm diameter vertical infill bars welded to frame at 100 mm centres, with two 38 x 38 x 10 mm thick plates as hinges with rounded ends to one side and hole for 12 mm diameter pin, welded to gate frame. (DC11)	No	2
14	Single security gate size 900 x 2 064 mm high formed of 25 x 25 mm hollow square section frame and 75 x 25 mm tubular steel middle rail welded at angles and intersections, with 12 mm diameter vertical infill bars welded to frame at 100 mm centres and struck through two middle rails of 75 x 10mm flat bars, with two 38 x 38 x 10 mm thick plates as hinges with rounded ends to one side and hole for 12 mm diameter pin, welded to gate frame. (DC11)	No	11
15	Single security gate size 900 x 2 064 mm high formed of 10 x 40 mm flat bar section frame and two 10 x 40 mm flat bar steel middle rails welded at angles and intersections, with 12 mm diameter vertical infill bars welded to frame at 100 mm centres and struck through two middle rails of 10 x 40mm flat bars, with two 38 x 38 x 10 mm thick plates as hinges with rounded ends to one side and hole for 12 mm diameter pin, welded to gate frame. (DC11)	No	1
16	8 mm Diameter x 75 mm long expansion bolt with washer including mortice in brickwork or concrete.	No	20
<u>BENCHES</u>			
Carried Forward			R
Section No. 2 Bill No. 12 Metalwork			

	Brought Forward		R
<u>Fixed bench brackets:</u>			
17	Bench brackets 2,200mm girth formed of 38 x 38 x 3mm tubing rail (each bracket = 8kg), mitred 6 times, including holes for bolts, capped ends, fixing plates and securely fixed to wall with rawlbolts (elsewhere measured).	kg	10
Carried Forward to Summary of Section No. 2			
Section No. 2			
Bill No. 12			
Metalwork			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 13</u>			
	<u>PLASTERING</u>			
	<u>Screeds</u>			
	<u>Cement screeds to concrete floors</u>			
1	25mm Screed to horizontal surfaces to receive vinyl asbestos floor tiles	m2	702	
	<u>Chemical mixed screeds</u>			
2	Prepare and apply Medium Sea Grey G24 screed chemical resistant epoxy screed and comprising a clear resin and activator blended with a pre-packed graded aggregate and a colour pigment including abecote 436 sealer applied as directed, all in accordance with the manufacturer's instructions.	m2	20	
	<u>Granolithic</u>			
	<u>Untinted granolithic finish to concrete</u>			
3	25mm Thick in thresholds not exceeding 300mm girth	m	29	
4	75mm Grano Skirtings	m	25	
5	25mm Thick screeds powerfloated to falls	m2	28	
	<u>Sundries to granolithic finish</u>			
6	Labour only forming set of stopped reedings 75mm wide	m	28	
	<u>Internal Plaster</u>			
	<u>One coat (5:1) cement plaster on brickwork or concrete finished with a steel trowel on:</u>			
7	Vertical surfaces including walls, columns, piers, etc	m2	1 672	
	Carried Forward			
	Section No. 2 Bill No. 13 Plastering			

**REPAIRS AND MAINTENANCE OF IKHALA TVET COLLEGE : EZIBELANI
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	Brought Forward			R
8	Narrow widths not exceeding 300mm wide	m2	28	
	<u>Cement plaster on concrete</u>			
9	On concrete soffits	m2	99	
	<u>External Plaster</u>			
	<u>One coat (4:1) cement plaster on brickwork or concrete finished with a steel trowel on:</u>			
10	Vertical surfaces including walls, columns, piers, etc	m2	797	
11	Narrow widths not exceeding 300mm wide	m2	28	
12	On columns circular on plan	m2	21	
	<u>Plaster in patches</u>			
13	Vertical surfaces including walls, columns, piers, etc	m2	45	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
Bill No. 13				
Plastering				

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BILL NO. 14</u>			
	NOTE : Tenderers are advised to study the "Standard Preambles to Trades" before pricing this bill			
	<u>WALL TILING</u>			
	<u>200 x 200 x 5 mm White glazed ceramic tiles fixed with adhesive to plaster in accordance with manufacturer's instructions.</u>			
1	On walls	m2	1 188	
2	On walls in isolated panels, splash backs, etc	m2	7	
3	On narrow widths	m2	3	
	<u>FLOOR TILING</u>			
	<u>240 x 120 x 9 mm Unglazed clay floor tile fixed with adhesive to bedding (bedding elsewhere) and flush pointed with epoxy grout</u>			
4	On floors and landings	m2	1 269	
5	100mm high tile skirting out of tiles as specified for the floor.	m	50	
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2			
	Bill No. 14			
	Tiling			

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Item No	Quantity	Rate	Amount
<u>SECTION 2</u>			
<u>BILL NO. 15</u>			
<u>PLUMBING (PROVISIONAL)</u>			
<u>CPAP WORK GROUP 146</u>			
<u>SOIL DRAINAGE</u>			
<u>Vitrified clay gulleys</u>			
1	No	1	
<u>CPAP WORK GROUP</u>			
Unless otherwise stated all items in this bill will be Work Group 148			
<u>RAINWATER DISPOSAL</u>			
Carried Forward			R
Section No. 2 Bill No. 15 Plumbing and Drainage			

Brought Forward				R
<u>Watertite Guttering commercial and industrial Ogee profile aluminium H3003h 14 seamless gutter, overall size 150 x 125 x 0,8mm thick coated internally and externally with ColourTech G4 in colour Marble White including cut and mitred angles covered with a mitre strip externally, stop ends crimped and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement fascia with 20 x 2,5mm Australian hanger brackets at 600mm centres using aluminium peeled rivets, including expanded aluminium mesh leaf guard set over gutter with 78 x 78 x 2mm thick aluminium downpipe in colour Marble White fixed to wall with straps at 1500mm centres using nail plugs, with downpipes riveted and silicone sealed to gutter outlets, including all necessary bends, elbows, shoes etc.</u>				
2	150 x125 mm Eaves gutters with beaded front edge in continuous lengths	m	278	
3	Extra over eaves gutter for angle	No	24	
4	Extra over eaves gutter for stopped end	No	22	
5	Extra over eaves gutter for outlet for 78mm diameter pipe	No	20	
6	78mm Diameter rainwater pipes in continuous lengths	m	59	
7	Extra over rainwater pipe for eaves offset 900mm projection	No	19	
8	Extra over rainwater pipe for shoe	No	20	
Carried Forward				R
Section No. 2 Bill No. 15 Plumbing and Drainage				

Brought Forward			R
<u>SANITARY FITTINGS</u>			
<u>"Stainless Steel"</u>			
9	CNTX 750 Grade 304 32mm diameter 18/10 stainless steel grab rails with Franke fine grip (product code: 359974) 750mm x 95mm deep, plugged and screwed to the wall with stainless steel screws.	No	2
10	CNTX 41 R Grade 304 32mm diameter 18/10 stainless steel side bars with Franke fine grip (product code: 359884), size 127 x 127 x 500mm deep, plugged and screwed to the wall with stainless steel screws.	No	2
11	CNTX 21 Grade 304 32mm diameter 18/10 stainless steel angle bars with Franke fine grip (product code: 359880), size 415 x 415 x 95mm deep, plugged and screwed to the wall with stainless steel screws.	No	2
12	900mm long 19mm diameter. Chromium plated steel towel rail inserted on both sides into chromium steel ends fixed to wall with screws	No	5
13	BHM 13 B brushed stainless steel toilet roll holders (product code: 359956), size 145 x 75mm deep, plugged and screwed to the wall with stainless steel screws.	No	2
<u>"Clay, etc"</u>			
14	Magnolia Corner vitreous china corner basin colour White (code: 7010), size 560 x 520mm with one taphole including integrated overflow and chainstay hole fixed to wall on and including two pressed wall hanger brackets (code: 8126Z0) and sealed with silicone sealant where basin meets wall.	No	4
15	Lotus vitreous china lavatory basin colour White (code: 7026), size 635 x 485mm with one taphole including integrated overflow and chainstay hole bolted to wall with two 10mm bolts (code: 8448Z0) and sealed with silicone sealant where basin meets wall.	No	3
Carried Forward			R
Section No. 2 Bill No. 15 Plumbing and Drainage			

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	Brought Forward			R
16	Hibiscus vitreous china close coupled washdown suite colour White, comprising 90° outlet open rim pan (code: 772600) and matching 6/3 litre top dual flush cistern (code: 710740) including lid and fittings, without seat.	No	7	
17	600 x 385 x 380mm Lavatera white vitreous china wall mounted back inlet urinal (code: 705427) including 38mm chromium plated domical grating (code: 8787Z0) and chromium plated back inlet spreader (code: 7054Z2), flush valve, flush pipe and fittings (by others - Recommended: Cobra FJ8.102), fixed on and including two hanger brackets (code: 8127Z0).	No	4	
18	Hygia ceramic fireclay hospital basin colour White (code: 703611), size 585 x 435mm with two tapholes, plugged and screwed to walls with two screws including chromium plated caps (code: 8513Z0) and sealed with silicone sealant where basin meets wall.	No	2	
19	Low level WC suite comprising "Protea Paraplegic" code 750200 white vitreous china pan with "DPE A1 De Lux" solid hard double flap plastic toilet seat and 9 litre cistern code 710536 with flush pipe and side-flush lever mounted on wall adjacent to cistern	No	2	
<u>TOILET PAPER HOLDERS, ETC</u>				
20	MR3 Satin finish Stainless Steel toilet tissue dispenser (code: SA426220), overall size 130 x 135 x 360mm high, installed to manufacturer's approval.	No	7	
21	Foam soap dispenser colour White (code: SA427715), overall size 134 x 120 x 250mm high, installed to manufacturer's approval.	No	6	
22	MK2 hand towel dispenser colour White (code: SA426104), overall size 310 x 280 x 400mm high, installed to manufacturer's approval.	No	6	
<u>WASTE UNIONS, ETC</u>				
23	40mm chrome plated anti-theft plug with spindle (Code: 309-40).	No	8	
Carried Forward				R
Section No. 2 Bill No. 15 Plumbing and Drainage				

**REPAIRS AND MAINTENANCE OF IKHALA TVET COLLEGE : EZIBELeni
CAMPUS - TENDER NO - ITVETC-INFRA001/08/2022**

Brought Forward			R
24	40mm 316 CP waste union	No	10
<u>TRAPS, ETC</u>			
<u>PVC</u>			
25	40 x 40mm Reseal "P" or "S" trap	No	3
26	40 x 300mm Sink combination for double bowl with reseal "P" or "S" trap	No	3
<u>"Chrome plated, brass, etc"</u>			
27	40mm chrome plated deep seal bottle trap with outlet for 40mm PVC (Code: 365/40).	No	7
28	32 x 32mm chrome plated deep seal bottle trap with MI outlet (Code: 340).	No	4
29	40mm rough brass shallow seal bath P trap with FI outlet and two cleaning eyes (Code: 370).	No	2
<u>TAPS, VALVES, ETC</u>			
30	20mm concealed WC Junior Flushmaster flushvalve with integral vacuum breaker and "Ball-o-Stop" control inlet (Code: FJ4.001).	No	4
31	20mm concealed urinal Junior Flushmaster flushvalve with palm press pushbutton assembly with pushrod, chrome plated straight tailpipe and "Ball-o-Stop" control inlet (Code: FJ8.102).	No	3
32	15mm chrome plated Power vandal-resistant shower head with self-cleaning spray nozzle (Code: KP2.6).	No	3
33	15mm chrome metermaster undertile metering stoptap (Code: KM2.301), manufactured in accordance with SANS 1808-9:2001.	No	5
34	15mm Chrome pushbutton demand pillar tap with flanged backnut (code KM2.102).	No	2
Carried Forward			R
Section No. 2 Bill No. 15 Plumbing and Drainage			

**REPAIRS AND MAINTENANCE OF IKHALA TVET COLLEGE : EZIBELENI
CAMPUS - TENDER NO - ITVETC-INFRA001/08/2022**

	Brought Forward			R
35	Melia 15mm chrome plated single taphole basin mixer with pop-up waste, mounting kit, angle valves with sliding flanges and flexible inlet hoses (Code: ME-293), manufactured in accordance with SANS 1480:2005 (BS 5412).	No	6	
36	Capstan Supreme 15mm chrome wall-type shower mixer (riser pipe and rose measured elsewhere) (Code: CSS-181-1), manufactured in accordance with SANS 226:2004 Type 1 (BS 5412).	No	2	
37	Stella 15mm wall mounted sink mixer with overarm swivel outlet and adjustable wall flanges (Code: 3366/041/10ST and S-041), manufactured in accordance with SANS 226:2004 Type 2 (BS 5412).	No	2	
38	15mm Chrome plated elbow action raised nose pillartap with blue/red indicator for cold/hot water (503-21B).	No	4	
39	Carina 15mm chrome plain bibtap (Code: 106CA-15), manufactured in accordance with SANS 226:2004 Type 1 (BS 5412).	No	3	
40	Stella 15mm hose bibtap with 20mm MI outlet (Code: 3309ST-15), manufactured in accordance with SANS 226:2004 Type 2 (BS 5412).	No	4	
41	15mm 1003/125 RB fullway gate valve	No	4	
<u>SANITARY PLUMBING</u>				
<u>uPVC pipes</u>				
42	50mm Pipes	m	114	
43	110mm Pipes	m	108	
44	110mm Pipes laid in and including trenches not exceeding 1m deep under surface beds	m	158	
<u>Extra over uPVC pipes for uPVC fittings</u>				
45	40mm Reducer	No	16	
46	50mm Reducer	No	12	
Carried Forward				R
Section No. 2 Bill No. 15 Plumbing and Drainage				

**REPAIRS AND MAINTENANCE OF IKHALA TVET COLLEGE : EZIBELENI
CAMPUS - TENDER NO - ITVETC-INFRA001/08/2022**

		Brought Forward		R
47	40mm Bend	No	32	
48	50mm Bend	No	22	
49	110mm Bend	No	17	
50	40mm Junction	No	10	
51	50mm Junction	No	11	
52	110mm Junction	No	9	
53	50mm Reducing junction	No	2	
54	110mm Pan connector	No	8	
55	40mm Access bend	No	5	
56	50mm Access bend	No	4	
57	110mm Access bend	No	22	
58	40mm Access junction	No	10	
59	50mm Access junction	No	9	
60	110mm Access junction	No	15	
61	50mm Access reducing junction	No	13	
62	110mm Access reducing junction	No	12	
63	110mm "GI two-way" vent valve	No	3	
	<u>Sundries</u>			
64	Testing waste pipe system		Item	
	<u>WATER SUPPLIES</u>			
	<u>Class O copper pipes</u>			
65	15mm Pipes	m	131	
66	22mm Pipes	m	130	
		Carried Forward		R
	Section No. 2			
	Bill No. 15			
	Plumbing and Drainage			

		Brought Forward		R
67	28mm Pipes	m	10	
	<u>Extra over class O copper pipes for capillary fittings</u>			
68	15mm Fittings	No	146	
69	22mm Fittings	No	103	
70	28mm Fittings	No	12	
	<u>Extra over class O copper pipes for conex compression fittings</u>			
71	15mm Fittings	No	59	
72	22mm Fittings	No	56	
	<u>Copper overflow and service pipes</u>			
73	15mm Service pipes 350mm girth	No	33	
74	20mm Service pipes 350mm girth	No	33	
	<u>FIRE SERVICES (Provisional)</u>			
	<u>INSTALLATION OF FIRE HYDRANT</u>			
75	Supply and Install a fire hydrant including the connection to the municipal main. It is to be noted that this operation shall be formed in "half width" procedure across the Main Street with proper traffic management in place to ensure minimal disruption to traffic flow	m	20	
	<u>SAW CUTS</u>			
76	Effect concrete saw or angle grinder cuts at least 30mm deep in mass concrete or asphalt paving to commence trench excavations.	m	60	
	<u>DEMOLITION</u>			
77	Demolish mass concrete and asphalt paving over trench width.	m3	3	
		Carried Forward		R
	Section No. 2			
	Bill No. 15			
	Plumbing and Drainage			

Brought Forward			R
<u>EXCAVATION</u>			
78	Excavation in all materials to a depth not exceeding 1.2m, backfill and compact to a minimum density of 93% Modified AASHTO	m3	28
<u>BEDDING</u>			
<u>Provision of bedding from external sources: 5km free haul (provisional)</u>			
79	Selected granular materials (cradle)	m3	2
80	Selected granular materials (blanket)	m3	5
<u>PIPELINE</u>			
81	Supply, lay, joint bed, test and disinfect uPVC pipe 75mm diameter class 12 complete with couplings to the relevant SANS standards including short lengths	m	30
<u>Paving</u>			
82	Replace concrete & asphalt paving surface over pipe trench to same standards and thickness as existing	m	24
<u>Chambers (provisional)</u>			
83	Excavate for and build stopcock chamber size 230 x 230 x 500 mm deep internally with half brick sides built and rendered in 1:3 cement mortar on and including 75 mm thick mass concrete base (15 MPa) projecting 75 mm all round and fitted with a cast iron meter box with hinged lid set flush with ground or paving and frame bedded in 1:3 cement mortar including filling in and ramming, all holes through sides for pipes, etc.	No	1
Carried Forward			R
Section No. 2 Bill No. 15 Plumbing and Drainage			

**REPAIRS AND MAINTENANCE OF IKHALA TVET COLLEGE : EZIBELENI
CAMPUS - TENDER NO - ITVETC-INFRA001/08/2022**

	Brought Forward			R
84	Excavate for and build valve chamber size 450 x 450 x 490 mm deep internally with half brick sides built in 1:3 cement mortar, brickwork battered in to take cast iron valve box type 7 in accordance with SABS 558, set flush in 450 x 450 x 100 mm thick mass concrete slab (Class E) and finished on exposed faces with granolithic with angles rounded including necessary formwork and filling in and ramming.	No	1	
	HDPE Class 6 pressure piping with Plasson compression fittings including straight couplings (Provisional)			
85	32 mm Pipe and laying in ground or filling not exceeding 1 m deep including selected granular material bedding cradle, selected side fill, backfilling with selected material from excavations, excavation in earth and carting away surplus excavated material.	m	20	
	<u>Valves, etc. and jointing to HDPE unless otherwise described including all connectors, connecting up, etc.</u>			
86	80 mm Approved gunmetal right angle shielded spindle hydrant with key and cap with instantaneous clip on type couplings and jointing to uPVC pipe.	No	1	
87	Approved 75 mm diameter pressure gauge with adaptor calibrated to 2 000 KPa and short lengths of 15 mm galvanised mild steel pipe and threaded joint to steel pipe.	No	1	
88	Mass concrete (30 MPa) fire hydrant standpost 915 mm high size 305 x 305 mm at four sided base tapered to 200 x 200 mm wide octagonal shaped top with sides each 83 mm wide at top as encasement to 75 mm diameter steel pipe, finished smooth in 3 - 1 cement plaster on all exposed faces and embedded 305 mm deep in ground in and including cement concrete block size 450 x 450 x 150 mm deep in ground including formwork, excavation in earth, filling in and ramming, paint, etc.	No	1	
	Carried Forward			R
	Section No. 2 Bill No. 15 Plumbing and Drainage			

Brought Forward		R
<u>Rigid uPVC Class 12 piping in accordance with SABS 791 including all straight couplings.</u>		
89	110 mm pipe and laying in ground or filling not exceeding 1 m deep in cut off drains (elsewhere measured). All in accordance with engineer's specifications.	m 25
<u>ELECTRIC WATER HEATERS</u>		
<u>Geyser mounted horizontally on roof timbers</u>		
90	100 litre horizontally mounted 2kW Kompakt electric water header (Code WE100), with geyser tray to suit same capacity horizontal geyser, with and including 50mm diamter PVC overflow connector (Code GT100).	No 1
91	150 litre horizontally mounted 3kW Kompakt electric water heater (Code WE200), with geyser tray to suit same capacity horizontal geyser, with and including 50mm diamter PVC overflow connector (Code GT100).	No 2
92	200 litre horizontally mounted 3kW Kompakt electric water header (Code WE200), with geyser tray to suit same capacity horizontal geyser, with and including 50mm diamter PVC overflow connector (Code GT100).	No 3
93	38mm Sawn softwood boarding for geyser platform formed of 38 x 228mm boards butt-jointed and nailed to truss tie beams	m2 5
<u>TESTING</u>		
94	Testing water pipe system	Item
<u>FIRE APPLIANCES, ETC</u>		
Carried Forward		R
Section No. 2 Bill No. 15 Plumbing and Drainage		

Brought Forward			R
<u>Fire Extinguishers,etc</u>			
95	4,5 kg Chemical dry powder portable fire extinguisher fixed on and including wrought meranti backboard size 150 x 750 x 22 mm thick plugged and screwed to wall and finished with two coats polyurethane varnish.	No	11
96	"Everyway" hose reel complete with 30 m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	6
<u>SERVICING OF EXISTING SEWERS</u>			
97	All existing sewer lines, manholes and rodding eyes shall be cleaned of all debris, intrusive roots or vegetable matter, faecal build up or any extraneous matter by rodding or jetting and flushing to achieve a system that is clean and free flowing		SUM
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 15			
Plumbing and Drainage			

Carried Forward to Summary of Section No. 2
Section No. 2
Bill No. 16
Glazing

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 17</u>			
	<u>PAINTING</u>			
	<u>ON NEW WORKS</u>			
	<u>On Ceilings</u>			
	<u>Universal undercoat and two coats "Professional superior Low sheen matt" PVA paint on:</u>			
1	Fibre-cement ceilings	m2	63	
2	Fibre-cement fascias, barge boards, etc	m2	25	
	<u>On plaster, etc</u>			
	<u>Primer, undercoat and two coats eggshell enamel paint on:</u>			
3	Plastered walls	m2	28	
4	On soffits of slabs	m2	99	
	<u>On Metalwork</u>			
	<u>Primer (where necessary), undercoat and two coats eggshell enamel paint on:</u>			
5	On steel poles not exceeding 300mm girth.	m	35	
	<u>Primer (where necessary), undercoat and two coats super high gloss enamel on:</u>			
6	Pressed steel door frames	m2	25	
7	Steel gates, balustrading, etc (measured flat on both sides)	m2	69	
8	Steel windows with burglar bars to whole window (measured flat on both sides)	m2	15	
	Carried Forward			
	Section No. 2			
	Bill No. 17			
	Painting			
			R	

Brought Forward			R
<u>On Wood</u>			
<u>Prepare , stop and apply three coats clear suede polyurethane varnish to SABs specifi- cation 887 type 2. All to architect's approval.</u>			
9	Wooden frames and linings.	m2	8
10	Wooden general surfaces.	m2	45
11	Doors	m2	64
12	Shelving	m2	45
13	Skirtings, cornices, rails, etc. not exceeding 300mm girth	m	473
<u>Primer undercoat and two coats premium non-drip satin enamel paint on:</u>			
14	Doors	m2	164
<u>Two coats Carbolinium paint on:</u>			
15	General surfaces of timbers at eaves	m2	5
<u>ON PREVIOUSLY PAINTED SURFACES</u>			
<u>On bricks, stonework or quarry tiles</u>			
<u>Prepare surfaces and remove any loose residue, grime etc with weak spirits of salts (or any other suitable means), wash,dry and apply two coats "UV Resistant Thermorplastic Brick Dressing"</u>			
16	On interior recessed pointed face brickwork	m2	159
17	On exterior recessed pointed face brickwork	m2	67
<u>On Ceilings</u>			
Carried Forward			R
Section No. 2 Bill No. 17 Painting			

REPAIRS AND MAINTENANCE OF IKHALA TVET COLLEGE : EZIBELENI
CAMPUS - TENDER NO - ITVETC-INFRA001/08/2022

	Brought Forward			R
	<u>Remove any loose flaking paint, and apply Universal undercoat and two coats PVA paint on:</u>			
18	Fibre-cement ceilings	m2	603	
19	Fibre-cement fascias, barge boards, etc	m2	56	
	<u>On plaster etc.</u>			
	<u>Remove any loose and flaking residue by means of wire brushing, wash with "Polycell Sugar Soap" or weak spirits of salts, open up cracks and make good with "Polycell Mendall 90" or "Masonry Patching plaster" filler sanded smooth, apply one coat "Professional Gypsum and Plaster Primer" and two coats "Professional Superior Low Sheen" paint on existing water based paint surfaces</u>			
20	Plastered Interior walls	m2	2 086	
21	On soffits of slabs	m2	10	
	<u>Remove any loose and flaking residue by means of wire brushing, wash with "Polycell Sugar Soap" or weak spirits of salts, open up cracks and make good with "Polycell Mendall 90" or "Polycell Polyfilla Exterior" filler sanded smooth, apply one coat "Masonry Paint" and two coats "Exterior quality paint with mica" paint on existing water based paint surfaces</u>			
22	Plastered Exterior walls	m2	1 070	
	<u>On Metalwork</u>			
	<u>Remove any loose and flaking residue by means of wire brushing, sand down, wash with "Polycell Sugar Soap" or weak spirits of salts, rinse, spot prime with "Zinc Phosphate Metal Primer and apply two coats "Super High Gloss enamel Paint on existing steel</u>			
23	On window frames (both sides measured)	m2	203	
24	Pressed steel door frames and metal doors	m2	82	
25	Steel gates, balustrading, etc (measured flat on both sides)	m2	91	
	Carried Forward			R
	Section No. 2			
	Bill No. 17			
	Painting			

	Brought Forward			R
26	On steel posts not exceeding 300mm girth	m	55	
	<u>On Wood</u>			
	<u>Prepare , stop and apply three coats clear suede polyurethane varnish to SABS specification 887 type 1. All to architect's approval.</u>			
27	Skirtings, cornices, rails, etc. not exceeding 300mm girth	m	369	
	<u>Stop, sand down, seal and prepare wood surfaces and apply one coat primer undercoat and two coats eggshell enamel paint on:</u>			
28	Wooden frames and linings	m2	13	
29	General surfaces of timbers at eaves	m2	25	
	<u>On floors</u>			
	<u>Prepare and apply Construction Chemicals Pale Grey G62 abeflo self-leveling, solvent free epoxy flooring system and comprising a resin hardener system, pre-packed aggregates and pigment including all necessary primers (abecote WD 337), all in accordance with the manufacturer's instructions.</u>			
30	On screeded floors	m2	1 587	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
Bill No. 17				
Painting				

**REPAIRS AND MAINTENANCE OF IKHALA TVET COLLEGE : EZIBELENI
CAMPUS - TENDER NO - ITVETC-INFRA001/08/2022**

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>SECTION 3BILL NO 1SITE CLEARANCE, ETC(PROVISIONAL)</u></p> <p><u>NOTE:</u></p> <p>Where items in this Bill are identical to those in the previous Bills, the descriptions have been shortened, and the full descriptions in the Trades concerned are to be referred to for the full meaning and intent of each item</p> <p>For Preambles see "Specification of materials and methods to be used - PW 371"</p> <p>-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>OLD MATERIALS TO BECOME PROPERTY OF THE CONTRACTOR: Old materials from alterations except where described to be re-used or handed over, become the property of the contractor, who must allow credit for same in the Final Summary</p> <p>OLD MATERIALS TO BE CARTED AWAY: Old materials from the alterations except where described to be re-used or handed over, as well as all rubbish etc. must be regularly carted from the site and not be allowed to accumulate on or around the site.</p> <p>OLD MATERIALS NOT TO BE REUSED: None of the old materials are to be used for new work except where specifically described as being set aside for re-use.</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 3 Bill No. 1 Siteworks</p>		R	

Brought Forward			R
<p>HANDING OVER OF MATERIALS: Where certain materials or articles from demolitions or alterations are described as to be handed over by the contractor to the Regional Representative or Representative/ Agent such materials or articles shall be properly stored by the contractor, until handing over thereof. The contractor shall obtain an official receipt listing the materials or articles and dates of handing over. If the contractor fails to submit the receipt when requested to do so it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Department for the full replacement value thereof which amount will be deducted from monies due to the contractor.</p> <p><u>CLEARING OF SITE</u></p> <p>1 Allow for clearing of site of all vegetable matter, rubbish, etc.including small trees having a circumference of less than 200mm measured at a height of 1 000mm above ground level, that may be encountered and roughly level site to be built upon and carting away any debris to a site to be found by the contractor</p> <p><u>EARTHWORKS</u></p> <p><u>Excavations</u></p> <p>2 Strip off top soil to an average depth of 150 mm over areas of roads, buildings etc and wheel and deposit in spoil heaps on site where directed for re-use</p> <p>3 Excavate to cut in open face, not exceeding 2 m deep to reduce levels and deposit in spoil dump on site, for use as filling or carting away as necessary (carting away elsewhere measured)</p> <p>4 Scarify in-situ surface of the bulk excavated bottoms to a depth of 150 mm, and compact to 93% Modified AASHTO density at optimum moisture content</p>			
	m2	75	
	m2	120	
	m3	8	
	m2	125	
Carried Forward			R
<p>Section No. 3 Bill No. 1 Siteworks</p>			

**REPAIRS AND MAINTENANCE OF IKHALA TVET COLLEGE : EZIBELENI
CAMPUS - TENDER NO - ITVETC-INFRA001/08/2022**

	Brought Forward			R
5	Imported filling supplied by the contractor, compacted to form platforms in layers not exceeding 150 mm thick to 98% Modified AASHTO density at optimum moisture content	m3	25	
6	Spread and level surplus excavated material over the site where directed by the Principal Agent, including lightly compacting the same, etc	m3	625	
7	Cart away surplus excavated material	m3	15	
8	Excavate in soft material in open face not exceeding 2 m deep extreme to reduce levels and deposit on site as filling (cut and fill) spread, levelled, consolidated in layers not exceeding 300 mm thick and compacted to 98% modified AASHTO density including forming terraces, slopes, banks, combers etc	m3	300	
<u>LANDSCAPING</u>				
<u>Topsoil</u>				
9	Imported topsoil supplied by the contractor spread and levelled over the site to form 100mm thick layer	m3	200	
<u>Trees</u>				
10	Allow the sum of R2 200-00 (Two Thousand Two Hundred Rands) for the supply, planting and establishment of trees to be measured and valued in terms of these Bills of Quantities.		Item	
<u>CONCRETE PAVING, WALKWAYS, PARKINGS, ETC (PROVISIONAL)</u>				
<u>CONCRETE, FORMWORK & REINFORCEMENT</u>				
<u>Concrete</u>				
<u>Cement concrete (15 MPa) mass in</u>				
11	Pavings.	m3	17	
Carried Forward				R
Section No. 3 Bill No. 1 Siteworks				

**REPAIRS AND MAINTENANCE OF IKHALA TVET COLLEGE : EZIBELeni
CAMPUS - TENDER NO - ITVETC-INFRA001/08/2022**

Brought Forward			R
12	Walkways and aprons	m3	18
13	Steps	m3	10
14	Ramps	m3	5
<u>Sundries</u>			
15	Strike off and cure tops of surface beds laid in panels approximately 3,00 m long x 3,00 m wide to uniform levels including all necessary formwork to form toggle joints to temporary construction joints to falls.	m2	400
16	Extra for floating off smooth tops of surface beds laid in panels with a wood float including slightly rounded edges to panels.	m2	400
<u>Expansion joints</u>			
17	12 mm "Flexcell" or other approved cane fibre filler board in expansion joint between edge of concrete paving and walls in narrow widths not exceeding 150 mm wide including tacking to face of wall.	m	12
<u>Formwork</u>			
<u>General formwork</u>			
18	Edges, risers, ends and reveals not exceeding 300 mm high or wide.	m	480
<u>ROADS, ETC (PROVISIONAL)</u>			
<u>NOTE:</u>			
Where items in this Bill are identical to those in the previous Bills, the descriptions have been shortened, and the full descriptions in the Trades concerned are to be referred to for the full meaning and intent of each item			
Carried Forward			R
Section No. 3 Bill No. 1 Siteworks			

Brought Forward				R
For Preambles see "Specification of materials and methods to be used - PW 371"				

<u>ROADS</u>				
<u>EARTHWORKS</u>				
19	Allow for the clearing and levelling of the site to be built upon, including the removal of all vegetable matter, rubbish, etc, including trees and shrubs having a circumference of less than 200 mm diameter measured 1 000 mm above ground level, that may be encountered, and cart away excess material to a dumping site to be located by the contractor	m2	100	
20	Excavate for and strip off top soil to an average depth of 150 mm, and deposit in spoil heaps on site for re-use, where directed by the Principal Agent	m2	29	
21	Excavate for roadways not exceeding 1 m deep, and cart away excess material to a dumping site to be located by the contractor.	m3	20	
<u>Road bed preparation</u>				
22	Scarify in-situ road bed surface to a depth of 300 mm and compact to 93% Modified AASTO density at optimum moisture content	m2	360	
<u>Base</u>				
23	Construct base of natural G5 gravel imported by the contractor in one layer of 150mm, with a CBR not less than 15 and not greater than 45 and a PI not less than 10 and a maximum particle size of 65mm, compacted to 95% Modified AASHTO density at optimum moisture content.	m3	180	
<u>Dewatering</u>				
24	Keeping excavations free from all mud and water			SUM
Carried Forward				R
Section No. 3 Bill No. 1 Siteworks				

**REPAIRS AND MAINTENANCE OF IKHALA TVET COLLEGE : EZIBELENI
CAMPUS - TENDER NO - ITVETC-INFRA001/08/2022**

Brought Forward			R
<u>Sundries</u>			
25	Cart away surplus excavated material	m3	50
<u>Prescribed Density Tests</u>			
26	"Modified AASHTO density" tests on road bed and road base material	No	6
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>25 Mpa/19 mm concrete</u>			
27	Strip footings	m3	2
<u>Concrete Testing (Provisional)</u>			
28	Making and Testing 150x150x150mm concrete strength test cubes	No	3
<u>PRECAST CONCRETE PAVING</u>			
<u>Precast Concrete</u>			
29	80mm thick SABS approved natural colour interlocking pavers laid to falls on and including 20mm thick layer of sand and treated with weedkill before laying including all excavations, cutting, bordering, etc.	m2	1 250
30	60mm thick SABS approved natural colour interlocking pavers laid to falls on and including 20mm thick layer of sand and treated with weedkill before laying including all excavations, cutting, bordering, etc.	m2	30
<u>PRECAST CONCRETE, ETC</u>			
<u>Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing</u>			
31	Kerb (SABS 927 fig 12) 75 x 150mm high with 100 x 100 x 150mm Class 15/19 unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	45
Carried Forward			R
Section No. 3 Bill No. 1 Siteworks			

Brought Forward			R
32	Kerb (SABS 927 fig 3) 150 x 150 x 300mm Class 15/19 unreinforced concrete haunching at back of each joint including excavation, backfilling, etc but circular on plan to radius not exceeding 4m	m	40
33	Precast concrete mountable kerb size 300 x 200/100 mm high (complying with SABS 927) in 1000mm length, wet pressed, placed in position, bedded and jointed in (3:1) cement mortar and flush pointed on exposed faces, including 15Mpa/19mm unreinforced concrete haunching at back of each joint, excavation, backfilling, ramming, etc	m	200
<u>Roadwork Marking</u>			
<u>Two coats approved road marking paint on tarmac, pavings and concrete</u>			
34	100mm Solid straight line	m	100
<u>BRICK RETAINING WALLS</u>			
35	One brick wall 230 x 250mm engineering bricks of 10Mpa minimum compressive strength (unplastered but pointed)	m2	5
<u>STORMWATER DRAINAGE (PROVISIONAL)</u>			
<u>NOTE:</u>			
Where items in this Bill are identical to those in the previous Bills, the descriptions have been shortened, and the full descriptions in the Trades concerned are to be referred to for the full meaning and intent of each item			
For Preambles see "Specification of materials and methods to be used - PW 371"			

<u>SURFACE DRAINAGE</u>			
Carried Forward			R
Section No. 3 Bill No. 1 Siteworks			

Brought Forward				R
	<p><u>Precast or in-situ concrete (Class 20) open stormwater channels with V-shaped waterway formed in top, finished smooth on all exposed surfaces and with angles rounded, cast in suitable lengths(not exceeding 2 500mm), and reinforced as necessary for handling if precast, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in (3:1) cement mortar</u></p>			
36	Precast or in-situ concrete (Class 25) open stormwater channels with V-shaped waterway formed in top, finished smooth on all exposed surfaces and with angles rounded, cast in suitable lengths (not exceeding 2500mm), and reinforced as necessary for handling if precast, including all framework moulds, shallow excavation, filling and remming, laying to falls, bedding and pointing in (3:1) cement mortar	m	100	
37	Extra over for angle.	No	5	
38	Extra over for T-intersection	No	5	
39	Extra for forming 100mm thick spreader fanning out to 1 200mm width at furthest end with seven (7 No) concrete bricks cast in as brick-on-end diffusers in three rows including working off concrete to a smooth finish	No	5	
	<u>CATCHPITS, ETC</u>			
40	Excavate for and build catchpit size 1460 x 2210mm not exceeding 1000 mm deep internally to invert level, consisting of reinforced 20Mpa/19mm stone (at 28 days) concrete base 150 mm thick with mesh ref 245, projecting 75 mm all round, one brick wall sides in hard burnt bricks plastered internally, 150 mm thick reinforced 20Mpa (at 28 days) concrete slab on top with mesh ref 245, rebated for and fitted with type 96 manhole cover and frame(SABS 558-1973), sealed all round with fallow, benching(1:3) at bottom, shaped to receive straight half round and including PVC channels, fittings, as required, excavations, formwork, backfilling, including two inlet kerbs per catchpit as per standard detail, etc	No	3	
	Carried Forward			R
	Section No. 3 Bill No. 1 Siteworks			

Brought Forward			R
<u>PRECAST CONCRETE PIPES</u>			
<u>Precast concrete pipes to conform to SABS standards and laid to line and level as prescribed by the Engineer on a class C granular bedding, 150mm thick and free from stones</u>			
41	450mm diameter class 100D precast concrete pipes laid in trenches including excavation for trench, protection of pipe and necessary compaction.	m	30
<u>GROUTED STONE PITCHED HEADWALL</u>			
<u>Grouted stone pitching shall be laid according to the standards set in SANS 1200DK as shown by the Engineer on site. Maximum dimension of stone to be 150mm</u>			
42	Grouted stone pitching to form a headwall at the end of the 450mm diameter concrete pipe	m2	4
<u>FENCING BRICKWALLS</u>			
<u>EARTHWORKS</u>			
43	Surface trenches	m3	55
44	Excavate for and strip off top soil to an average depth of 150 mm, and deposit in spoil heaps on site for re-use, where directed by the Principal Agent	m2	5
45	Excavate in earth not exceeding 2m deep to reduce levels under pavings and spread and level surplus excavated material over site	m3	5
<u>Extra over excavation in pickable material for column bases, trenches, lift pits, sumps, etc for excavation</u>			
46	Soft rock.	m3	10
47	Hard rock	m3	10
48	Allow for risk of collapse to sides of excavations to column bases, trenches, etc. from ground level to not exceeding 1.5m deep.	m2	142
Carried Forward			R
Section No. 3 Bill No. 1 Siteworks			

**REPAIRS AND MAINTENANCE OF IKHALA TVET COLLEGE : EZIBELENI
CAMPUS - TENDER NO - ITVETC-INFRA001/08/2022**

Brought Forward			R
49	Allow for keeping excavations entirely free from water or mud.	Item	
<u>Dewatering</u>			
50	Removal of seepage and other water from subterranean sources from excavations	Litres	1.00
<u>Filling</u>			
51	Approved clean, hard, dry filling obtained from the excavations in backfilling to trenches, well consolidated and rammed.	m3	5
52	Filling in approved selected surplus material from the excavations, spread, levelled, watered, consolidated and compacted under solid floors. (Measured nett - no allowance will be made for bulking).	m3	25
53	Approved clean, hard, dry decomposed dolerite filling supplied by the contractor in filling under pavings compacted to 93% Mod AASHTO density	m3	5
<u>CONCRETE, FORMWORK & REINFORCEMENT</u>			
<u>Concrete</u>			
<u>Cement concrete (15 MPa) mass in</u>			
54	Wall footings cast against excavated surfaces	m3	15
<u>Cement concrete (25 MPa) mass in</u>			
55	Walkways	m3	15
56	Steps	m3	2
57	Concrete aprons	m3	10
<u>Sundries</u>			
58	Floating off smooth tops of surface beds with a wood float.	m2	20
<u>Formwork</u>			
Carried Forward			R
Section No. 3 Bill No. 1 Siteworks			

**REPAIRS AND MAINTENANCE OF IKHALA TVET COLLEGE : EZIBELENI
CAMPUS - TENDER NO - ITVETC-INFRA001/08/2022**

Brought Forward			R
	<u>General formwork</u>		
59	Edges, risers, ends and reveals not exceeding 300 mm high.	m	30
	<u>MASONRY</u>		
	<u>The following in Stock Bricks in (5:1) Cement Mortar</u>		
60	One brick wall in foundations	m2	67
	<u>Facebricks prime cost R6000.00 per thousand excluding VAT delivered to the site pointed with square recessed horizontal and vertical joints</u>		
61	One Brick wall faced both sides	m2	36
62	Face Brick Piers with 15Mpa concrete infill capped with precast or other approved concrete to architect's approval.	m3	74
	<u>Facings Externally</u>		
	<u>Facebricks prime cost R6000.00 per thousand excluding VAT delivered to the site pointed with square recessed horizontal and vertical joints</u>		
63	Extra over ordinary brickwork for facing in stretcher bond and pointing as described.	m2	15
	Carried to Final Summary		R
Section No. 3			
Bill No. 1			
Siteworks			

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3	Section 3 - External Works	97	
	<u>Volume 3 Part - B (Electrical Work Installation)</u>		
	Add: Sub-Total (Excluding VAT) for Electrical Installation from Part B	Item	
	<u>Volume 3 Part - C (Mechanical Work Installation)</u>		
	Add: Sub-Total (Excluding VAT) for Mechanical Installation from Part C	Item	
	SUB-TOTAL		R
	<u>Escalation</u>		
	Provide a sum of R 550 000.00 for Escalation to be adjusted in accordance with Contract Price Adjustment Provisions.	Item	
	<u>Contingencies</u>		
	Allow a sum of 5% for contingencies to be used as directed by the Principal Agent	Item	450 000.00
	SUB-TOTAL		R
	<u>VAT</u>		
	Value Added Tax		R
	Carried to Form of Tender		R