

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 1</u></p> <p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES AND GENERAL</u></p> <p><u>PREAMBLES FOR TRADES</u></p> <p>The Standard Preambles for Trades (January 2009 Rev 3) as issued by the KwaZulu-Natal Department of Health shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Standard Preambles will be entertained.</p> <p><u>GENERAL PREAMBLES</u></p> <p><u>Bills of Quantities</u></p> <p>The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, the Standard Conditions of Tender, Conditions of Contract, Standard Preambles for Trades (January 2009 Rev 3), Specifications, Drawings and all other relevant documentation.</p> <p><u>Temporary works and plant</u></p> <p>The contractor shall protect, uphold and maintain all public utilities and services and shall not interfere with their operation without the consent of the service authorities and the principal agent. The contractor shall notify the Principal Agent of any damage to such services and shall make good same at his own cost to the satisfaction of the service authorities,</p> <p>Fuel, power and water for commissioning of mechanical and other specialised equipment shall also include for the cost of all necessary reticulation and connections thereto</p> <p>The contractor shall provide noise and dust control to the approval of the Principal Agent.</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 - Preliminaries and General Preliminaries and General</p> <p>KZN DEPARTMENT OF HEALTH</p>			R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<p>The contractor shall maintain the access roads, paths, buildings, etc, adjacent to the construction area etc, during the period of the works in a clean and rubble free condition.</p> <p><u>Identity of employees</u></p> <p>All employees of the contractor and his sub contractors shall be identifiable at all times by means of ID cards, company name and logos imprinted on overalls. Any person found on site not complying with the above mentioned conditions the contractor shall be requested by Principal Agent, to remove such person from the site</p> <p><u>Health and Safety</u></p> <p>The contractor is to comply with all requirements of the Health and Safety Specification</p> <p><u>Housekeeping and compliance with Principal Agent site rules</u></p> <p>The contractor will be responsible for a high standard of housekeeping in his site establishment, delivery of materials and goods and removal of rubble, debris, etc, storage areas and construction working areas to the approval of the Principal Agent</p> <p><u>Working Hours</u></p> <p>Should the contractor wish to work outside normal working hours or at weekends in order to maintain his building programme, he shall notify and obtain the approval from the Principal Agent before doing so. The cost of this overtime will be for the contractor's account</p> <p><u>Pricing</u></p> <p>The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Standard Preambles and in any supplementary preambles.</p>			
	Carried to Collection			R
	Section No. 1 - Preliminaries and General Preliminaries and General			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<p><u>Escalation</u></p> <p>Unless otherwise stated herein, all items in this each respective Bills of Quantities within this document shall be deemed to fall into the respective Work Group for Haylett formula purposes</p> <p><u>Labour Intensive</u></p> <p>Tenderers are to note pricing shall be deemed to include for carrying out to completion of labour intensive items on site by means and methods that rely predominantly on manual labour. No claims shall be entertained regarding any additional time or monetary costs incurred due to LABOUR INTENSIVE METHODS.</p>			
1	Preliminaries and General (Total carried forward from Page 141 of 142)	Item		
	Carried to Collection			R
	Section No. 1 - Preliminaries and General Preliminaries and General			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 1 - Preliminaries and General

Bill No 1

Preliminaries and General

COLLECTION

Total Brought Forward from Page No.

**Page
No**

1

2

3

Amount

Carried to Final Summary

R

Section No. 1 - Preliminaries and General
Preliminaries and General

KZN DEPARTMENT OF HEALTH

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 2: DEMOLITIONS AND ALTERATIONS TO EXISTING STRUCTURES</u></p> <p><u>BILL NO. 1</u></p> <p><u>ALTERATIONS</u></p> <p><u>PREAMBLES</u></p> <p>The tenderers are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) as issued by the KwaZulu-Natal Department of Health before pricing this bill.</p> <p>NOTE: All the work in this Section is attached to or inside existing buildings. Tenderers are to allow in their pricing of the following work for working in confined or restricted spacings with limited access. Care must be taken to avoid damaging existing structure and finishes. Any damage by the Contractor is to be made good at his own cost to the satisfaction of the Engineer.</p> <p>NOTE: Prices are to include for carting away from site all materials not specifically mentioned as being stored on site for re-use or handed over and all rubbish, debris, etc., arising from the alterations, etc., and for making good all work damaged or disturbed to the approval of the Engineer.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE: Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No. 102 for CPAP purposes</p>				
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Alterations				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>Method of demolition</u></p> <p>The Contractor shall provide the Engineer with the methods he proposes to use for the demolition and a detailed construction programme and demolition schedule indicating all the various items to be demolished.</p> <p><u>View Site</u></p> <p>The tenderers shall visit the site to ascertain the exact nature and extent of the work to be done and shall carefully examine the existing structures before making any allowance for their purchase, demolition and removal as no claim for any extra work due to failure to comply with this requirement will be subsequently entertained.</p> <p><u>Descriptions</u></p> <p>The descriptions and sizes of demolition work contained hereinafter are intended as a GUIDE ONLY to the Tenderer and no liability will be accepted for any discrepancies or inadequacies.</p> <p>The whole of the work shall be carried out in accordance with and to the entire satisfaction of the Local Authorities and Engineer</p> <p>The Contractor, shall, before commencing work, obtain all necessary authorisations for carrying out the work, give all necessary notices and pay all fees and charges in connection therewith, including all Local Authority charges. He shall arrange for and pay all fees and charges, if any, for disconnecting of electrical and water supplies, drains, telephones, etc. and for disconnecting and removal of all municipal property such as electric transformers, high tension switch gear, meters, etc.</p>				
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Alterations				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No	Unit	Quantity	Rate	Amount
<p><u>Clearance Certificate</u></p> <p>Before commencing work on site the Contractor shall comply with all regulations in respect of rodent extermination and shall obtain the requisite Rodent Extermination Clearance Certificate and pay all fees and charges in connection therewith. This certificate shall be deposited with the Engineer.</p>				
<p><u>Disturbance</u></p> <p>The Contractor shall carry out the whole of the demolition works with as little mess and noise as possible and with a minimum disturbance to the adjoining premises and their occupants. He shall keep the site, structures and materials well watered during the operation to prevent dust and provide, erect and maintain all temporary tarpaulins, dust and weather-proof screens, barriers and temporary plumbing that may be necessary during the progress of the work, all to the satisfaction of the Architects, the Local Authorities and Engineer and remove when directed.</p>				
<p><u>Hoardings and Protection</u></p> <p>Unless other arrangements, acceptable to the Local Authorities and Engineer, are made and before commencing any demolition work the Contractor shall provide hoardings as necessary for the enclosure of the buildings, sectional activities and access thereto for the protection of the general public and others</p>				
<p><u>Safety</u></p> <p>The Contractor shall supply and erect all props, struts, shoring, etc. which may be necessary in the demolition and for the safety of persons and property.</p> <p>The Contractor shall comply with all regulations and by-laws in force in connection with the use of mechanical and other equipment. Blasting will only be permitted with the Engineer's approval.</p>				
Carried to Collection				
Section No. 2 - Demolitions and Alterations Alterations				R
KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>Pumping and Bailing</u></p> <p>The Contractor shall keep the works free from water and mud during the course of the contract.</p> <p><u>Disposal of Materials</u></p> <p>Unless otherwise described old materials specified to be set aside for re-use shall be carefully removed, repaired and cleaned as necessary, classified, stacked, stored and properly protected from damage until required for further re-use. The Contractor shall be responsible for any damage or loss during the whole of this operation.</p> <p>All materials, except those herein described as reserved materials and except any municipal property, shall become the property of the Contractor and credit shall be given for the same.</p> <p>The Contractor shall be responsible for the removal from the site of all such materials vested in him before the completion of the contract.</p> <p>In pricing, the credits for old materials shall not be off-set against the charge so as to result in a net figure in the Amount column, but shall be set out in detail in the schedule provided at the end of the Bill.</p> <p><u>Overhauling</u></p> <p>Items described as overhauling shall include for refixing including, taking off, easing and re-hanging, cramping and re-wedging as required and making good cramps, dowels, etc, if necessary replacing any glass damaged in the removal, and stopping all nail and screw holes to match existing work preparing surfaces to receive new paint, etc.</p>				
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Alterations				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>Reserved Materials</u></p> <p>These materials have been measured and described in these Bills of Quantities and will include items such as the more expensive finishes, etc. which are removable and the like.</p> <p>The items shall be reserved and remain the property of the Employer and will be removed from the building by the Contractor and handed over to the Employer prior to the commencement of the demolitions. Should the tenderer have doubts concerning any of these items he shall seek clarification from the Engineer.</p>				
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Alterations				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>Drains, pipes, services, etc.</u></p> <p>The Contractor shall remove from site all drains, pipes, conduits, wires and other obstructions which are encountered only on written instruction, and which require removal.</p> <p>He shall plug and seal all water pipes, drains, pipes or other conduits remaining below ground level and ensure that no electric cables or wires remaining underground are alive.</p> <p>The Contractor shall particularly ensure that all gas services are disconnected and properly sealed off before any demolition work.</p> <p>The Contractor shall consult the Engineer before cutting off any water, fire or gas services, sewage systems and other existing services.</p> <p>The Tenderer is notified that the building is presently occupied by tenants, who have the right to take out and remove their own furniture, fixtures and fittings before vacating the premises. The Tenderer shall ascertain which furniture, fixtures and fittings from part of the building to be handed over for alteration as well as those handed over to the Employer, before making allowances in respect thereof and before submitting a tender.</p> <p>The telephone systems, data cabling, computer installations, etc. and fittings shall not be disconnected or disturbed in any way by the Contractor, but due notice shall be given to the Engineer, who will make the necessary arrangements for the removal, alteration, etc thereto. The Contractor shall be liable for any damage to this work and shall make same good at his own expense.</p> <p>In taking down and removing existing work, the utmost care shall be observed to avoid any structural or other damage to the remaining portions of the building. The Contractor shall cover up and protect from injury all work not removed and shall make good at his own expense any damage that may occur.</p>				
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Alterations				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>Prices must include</u></p> <p>Prices for the demolition of any portion of the structure, shall include for its demolition complete, with all surface finishes such as plaster, tiles, screeds, etc. All attached items of joinery such as skirtings, etc, and all reinforcement, conduits, pipes, lintels, etc built into that portion of the structure.</p> <p>Prices for the removal of partitioning, shopfronts, etc, shall include for the removal of door frames, fanlights, ironmongery, architraves and other associated trim.</p> <p>Prices for the removal of doors and frames shall include for the removal of fanlights, ironmongery, architraves and other associated trim.</p> <p>Prices for the removal of ceiling shall include for the removal of all electrical and mechanical services and fittings in the ceiling void including partitioning etc, within the ceiling void.</p> <p>Prices for the removal of sanitary fittings shall include for the removal and blocking off of copper service pipes, taps, traps, brackets and cisterns.</p> <p><u>Leave site clean and free of rubbish</u></p> <p>At final completion of the demolition work the Contractor shall leave the works in a thoroughly safe and sanitary condition to the complete satisfaction of the Engineer.</p> <p>The Contractor shall progressively during the Works and at completion collect and cart away all materials and debris resulting from the demolitions and also all earth, soil and rubbish.</p> <p><u>Temporary Protection</u></p> <p>Provide and erect all casings and protections for and cover up of all existing fittings, doors, windows, joinery work, walls, floors, etc. not disturbed during the alterations and clear away and make good on completion.</p>				
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Alterations				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p>Provide, erect and remove when directed, all incidental shoring, needling, strutting, etc. that may be necessary while carrying out any portion of the Works, to ensure stability of the premises with suitable and substantial timber and other materials. Prices for all items of demolition to form openings shall include for the provision of such support.</p> <p><u>DEMOLITIONS, BUILDING WORK, ETC.</u></p> <p><u>Removal of roofs, etc.</u></p> <p>The removal of roof coverings, rainwater goods and roof trusses, etc. occur above ceilings, floors, etc., which are to be retained and rates are, therefore, to include for covering and protecting the existing work, carrying out the work in suitable portions to minimize the risk of damage and taking any further precautions which are considered necessary and to the approval of the Engineer.</p> <p><u>Making good damaged work</u></p> <p>The Contractor shall make good in all trades to existing work where damaged or disturbed through the alterations with all necessary new materials to match the existing, and shall, after completion of all renovations and alterations, thoroughly clean up, remove all rubble, etc.</p> <p>Making good is not stated in every description, but shall be deemed to be included as such, and prices must make provision accordingly.</p>				
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Alterations				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>Forming new openings or altering openings in existing walls</u></p> <p>Descriptions of forming new openings or altering openings in existing walls shall be deemed to include breaking out for and forming new brick, in situ concrete or prestressed concrete lintels, including all reinforcement, formwork, turning pieces, etc. building up jambs or portions of openings as described with brickwork or blockwork properly toothed and bonded to existing, building cavities of hollow walls solid where necessary and making good finishes all round on both sides and into reveals as described.</p> <p><u>Building up Openings</u></p> <p>Descriptions of building up existing openings where given in number, shall be deemed to include preparing existing surfaces all round, brickwork or blockwork properly toothed and bonded to existing, wedging up and making good finishes on both sides as described.</p> <p><u>Paintwork</u></p> <p>Where plasterwork on walls, ceilings, etc. are required to be patched or made good, prices are to include for the appropriate priming coat(s) and undercoat(s) to receive finishing coats which are measured elsewhere. Refer to the Paintwork Bill in this regard.</p>				
	<p><u>TEMPORARY BARRIERS, SCREENS, ETC.</u></p> <p><u>Temporary Bonnox fence or equally approved including shade cloth (80%) fixed to C.C.A treated timber poles at suitable centres, with allowance for vehicle access and pedestrian gates as approved by the Engineer</u></p>				
1	Hoarding 2000mm high, complete	m	240		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Alterations				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>REMOVAL OF EXISTING WORK</u>				
	<u>Breaking up and removing reinforced concrete including cutting off and removing reinforcement and carting away from site</u>				
2	100mm Thick surface beds	m2	82		
3	100mm Thick concrete steps	m2	12		
4	100mm Thick concrete stormwater open channels, aprons, etc	m2	173		
5	150mm Thick slabs	m2	163		
	<u>Breaking down and remove brickwork etc. and carting away from site</u>				
6	Half brick walls	m2	398		
7	One brick walls	m2	829		
	<u>Taking out and removing doors, windows, etc., including thresholds, sills, etc., and carting away from site</u>				
8	Timber single door and steel door frame not exceeding 2,5m2 from 110mm brick walls	No	36		
9	Timber single door and steel door frame including fanlight not exceeding 2,5m2 from 250mm brick walls	No	112		
10	Timber double door and steel door frame including fanlight not exceeding 2,5m2 from 250mm brick walls	No	12		
11	Glazed steel window including burglar proofing not exceeding 2,5m2 from 250mm brick walls	No	197		
12	Glazed aluminium window not exceeding 2,5m2 from 250mm brick walls	No	6		
13	Steel plant room double door and steel door frame not exceeding 2,5m2 from 220mm brick walls	No	2		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Alterations				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>Taking out and removing doors, windows, etc., including thresholds, sills, etc., from walls to be demolished and carting away from site</u>				
14	Timber single door and steel door frame including fanlight not exceeding 2,5m2 from 250mm brick walls	No	39		
15	Glazed steel window including burglar proofing not exceeding 2,5m2 from 250mm brick walls	No	36		
	<u>Taking down and removal of rainwater disposal, etc., and carting away from site</u>				
16	Existing gutters	m	206		
17	Existing downpipes	m	179		
18	Existing fascias and barge boards	m	286		
	<u>Taking out and removing roofs, floors, panelling, ceilings, partitions, etc., and carting away from site</u>				
19	Roof covering including purlins	m2	1 184		
20	Gypsum plasterboard ceilings including timber brandering, cornices, cover strips, etc.	m2	827		
	<u>Taking out and removing sundry joinery work, fittings, etc., and carting away from site</u>				
21	L-Shaped floor cupboard unit size 4938 x 600 x 900mm high, complete	No	6		
22	Timber built-in cupboard unit size 1100 x 550 x 2560mm high, complete	No	45		
	<u>Taking down and removal of structural steelwork and carting away from site</u>				
23	Structural steel fire escape staircases approximately 8700mm high including concrete bases, concrete plinths, etc., complete	No	3		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Alterations				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc and carting away from site</u>				
24	20mm Screed from floors	m2	123		
25	Average 50mm screed from floors to falls	m2	59		
26	Internal plaster from walls	m2	7 587		
	<u>Hacking off and removing vinyl floor coverings, carpeting, etc., and carting away from site</u>				
27	Vinyl tiles	m2	2 188		
28	Skirtings	m	2 853		
	<u>Hacking off and removing ceramic and porcelain tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes and carting away from site</u>				
29	Mosaic tiles to floors	m2	59		
30	Wall tiles	m2	1 467		
	<u>Taking out and removing sundry metalwork and carting away from site</u>				
31	1,8m High steel palisade including posts, concrete bases, brackets etc., complete	m	116		
32	Steel balustrade 1000mm high from concrete stairs including making good to receive new balustrades (elsewhere measured)	m	105		
	<u>Taking out and removing piping, sanitary fittings with taps / mixers, etc., including disconnecting piping from fittings and making good floor and wall finishes and carting away from site (making good tiling and paintwork elsewhere)</u>				
33	Wash hand basin	No	15		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Alterations				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
34	Floor mounted WC with cistern	No	27		
35	15mm Chrome plated vandal proof shower head including drainer, complete	No	45		
36	Bath tubs	No	9		
37	Stainless steel sink unit size 2500 x 500mm wide, complete	No	9		
38	Disconnect and remove all existing waste pipes complete with fittings	m	324		
39	Disconnect and remove all existing hot and cold water supplies complete with fittings	m	550		
<u>CUTTING THROUGH FLOORS</u>					
40	Saw cut top of existing concrete surface bed / slabs to a minimum depth of 20mm prior to breaking up and removing concrete, etc., complete	m	144		
<u>BUILDING UP OPENINGS</u>					
<u>Brickwork in NFP bricks in Class II mortar in building up openings including brickforce, ties, etc., as per Structural Engineers approval</u>					
41	250mm Brick walls	m2	99		
<u>Sundries</u>					
42	Cutting toothing and bonding new brickwork to existing	m2	134		
<u>PREPARATORY WORK TO EXISTING SURFACES</u>					
43	Hacking surface of existing floors to create key to receive new floor finish	m2	2 464		
44	Hacking surface of existing face brickwork to create key to receive new external plaster	m2	862		
Carried to Collection					
Section No. 2 - Demolitions and Alterations Alterations				R	
KZN DEPARTMENT OF HEALTH					

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>MAKING GOOD OF FINISHES, ETC.</u>				
	<u>Making good internal cement plaster</u>				
45	Walls where 110mm brick walls were removed	m2	16		
46	Walls where 250mm brick walls were removed	m2	134		
	<u>Making good screed</u>				
47	Floors where 110mm brick walls were removed	m	136		
48	Floors where 250mm brick walls were removed	m	327		
	<u>OPENINGS THROUGH EXISTING WALLS, ETC.</u>				
	<u>Breaking out for and forming openings through brickwalls for new doors and frames including necessary precast concrete lintels and making good plaster on both sides and into reveals and with 90mm concrete thresholds with steel trowelled finish (new doors and frames and making good paintwork elsewhere)</u>				
49	Opening for single door size 813 x 2032mm high including 813 x 305mm high fanlight through 250mm brick wall	No	54		
	<u>CLEANING OF EXISTING SURFACES TO RECEIVE NEW FINISH</u>				
	<u>Rub down, prepare and brush surface to remove all contaminants of partitions and / or plastered walls / soffits to receive new plaster and / or paint (plaster and / or paint else where measured)</u>				
50	On concrete soffits	m2	1 046		
	<u>High pressure cleaning</u>				
51	Existing face brick walls	m2	2 136		
	Carried to Collection				
	Section No. 2 - Demolitions and Alterations Alterations				R
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No	Unit	Quantity	Rate	Amount
<u>CONCRETE SPALLING</u>				
<u>The following net sums are for work to be executed by the principal contractor and/or specialists and will be measured at completion and priced in terms of the contract</u>				
<u>Concrete repairs / remedial work, complete</u>				
52				
		Item		550 050.00
53			%	
54			%	
<u>DECANTING</u>				
55				
		Item		
56			%	
57			%	
Carried to Collection				R
Section No. 2 - Demolitions and Alterations Alterations				
KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 2 - Demolitions and Alterations

Bill No 1

Alterations

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19

Carried Forward to Summary of Section No. 2

Section No. 2 - Demolitions and Alterations
Alterations

KZN DEPARTMENT OF HEALTH

R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO. 2: DEMOLITIONS AND ALTERATIONS TO EXISTING STRUCTURES</u>				
	<u>BILL NO. 2</u>				
	<u>EARTHWORKS (PROVISIONAL)</u>				
	<u>PREAMBLES</u>				
	Tenderers are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.104 for CPAP purposes				
	<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
1	Reduced levels under floors	m3	22		
2	Trenches	m3	44		
3	Holes	m3	71		
	<u>Extra over trench and hole excavation in earth for excavation in</u>				
4	Soft rock	m3	14		
5	Hard rock	m3	7		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Earthworks				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 98% Mod AASHTO density</u>				
6	Not exceeding 500mm deep for placing and removing formwork to walls, etc., 500mm away from excavated face	m2	79		
7	Exceeding 500mm and not exceeding 1500m deep for placing and removing formwork to walls, etc., 500mm away from excavated face	m2	155		
	<u>Extra over all excavations for carting away</u>				
8	Surplus material from excavations and stock piles on site to a dumping site to be located by the contractor	m3	74		
	<u>Risk of collapse of excavations other than bulk</u>				
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	234		
	<u>Keeping excavations free of water</u>				
10	Keeping excavations free of water		Item		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>				
11	Backfilling to trenches, holes, etc.	m3	63		
	<u>Earth filling, G7 material in accordance with SANS 1200 ME, supplied by the contractor, compacted to 95% Mod AASHTO density</u>				
12	Under floors, steps, pavings, etc.	m3	17		
	<u>Compaction of surfaces</u>				
13	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 95% Mod. AASHTO density.	m2	58		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Earthworks				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>Prescribed density tests on filling</u>				
14	Modified AASHTO Density test	No	1		
	<u>Soil insecticide</u>				
15	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming	m2	58		
16	To bottoms and sides of trenches etc.	m2	313		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Earthworks				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 2 - Demolitions and Alterations

Bill No 2

Earthworks

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

21

22

23

Carried Forward to Summary of Section No. 2

Section No. 2 - Demolitions and Alterations
Earthworks

KZN DEPARTMENT OF HEALTH

R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 2: DEMOLITIONS AND ALTERATIONS TO EXISTING STRUCTURES</u></p> <p><u>BILL NO. 3</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>PREAMBLES</u></p> <p>Tenderers are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.110 Concrete, 111 Formwork, 114 Reinforcement for CPAP purposes</p> <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 SANS 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>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>				
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Concrete, Formwork & Reinforcement				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<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 solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</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>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></p> <p><u>15 MPa/19mm Concrete</u></p>				
1	Blinding	m3	4		
	<p><u>25MPa/19mm Concrete</u></p>				
2	Bases	m3	24		
3	Edge thickening	m3	1		
4	Strip footings	m3	14		
5	Surface beds on waterproofing	m3	6		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Concrete, Formwork & Reinforcement				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>REINFORCED CONCRETE</u>				
	<u>30MPa/19mm Concrete</u>				
6	Stairs including landings, beams and inverted beams	m3	20		
7	Columns in foundations	m3	1		
8	Columns	m3	10		
9	Steps	m3	1		
	<u>TEST BLOCKS</u>				
10	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	18		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a steel float</u>				
11	Surface beds, slabs, etc.	m2	12		
12	Landings	m2	68		
13	Treads and risers of stairs	m2	50		
	<u>Finishing top surfaces of concrete smooth with a power float</u>				
14	Surface beds, slabs, etc.	m2	58		
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
	<u>Rough formwork to sides</u>				
15	Strip footings	m2	38		
16	Bases (Provisional)	m2	41		
17	Rectangular columns in foundations (Provisional)	m2	14		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Concrete, Formwork & Reinforcement				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
18	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	146		
19	Sloping and stepped outer edges of stairs 400mm high extreme	m	65		
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>				
	<u>Smooth formwork to sides</u>				
20	Rectangular columns	m2	125		
	<u>Smooth formwork to soffits</u>				
21	Landings	m2	68		
22	Stairs with sloping soffits	m2	37		
	<u>MOVEMENT JOINTS, ETC.</u>				
	<u>Expansion joints with expanded polyethelene with tear off strip between vertical concrete and brick surfaces</u>				
23	10mm Joints not exceeding 300mm high	m	72		
	<u>REINFORCEMENT</u>				
	<u>High tensile & mild steel reinforcement to structural concrete work</u>				
24	Reinforcing bars in varying diameters	t	7.82		
	<u>Fabric Reinforcement</u>				
25	Type 617 fabric reinforcement in concrete surface beds, slabs, etc.	m2	67		
	<u>PRECAST CONCRETE</u>				
	<u>"LG Green" or equally approved B - C11 exterior window cill fixed to brickwork by Class II mortar</u>				
26	Window cill size 150 x 53mm high	m	395		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Concrete, Formwork & Reinforcement				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 2 - Demolitions and Alterations

Bill No 3

Concrete, Formwork & Reinforcement

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

25

26

27

28

Carried Forward to Summary of Section No. 2

Section No. 2 - Demolitions and Alterations
Concrete, Formwork & Reinforcement

KZN DEPARTMENT OF HEALTH

R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 2: DEMOLITIONS AND ALTERATIONS TO EXISTING STRUCTURES</u></p> <p><u>BILL NO. 4</u></p> <p><u>MASONRY</u></p> <p><u>PREAMBLES</u></p> <p>Tenderers are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.118 for CPAP purposes</p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><u>Hollow walls, etc.</u></p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with approved cement and sand mixture and sealed with two coats "Brickseal" bitumen emulsion waterproofing coating</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p>				
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Masonry				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.</p> <p><u>Samples</u></p> <p>Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of six units. Samples of building units to be used in walls described as "load bearing" shall consist of thirty units from every thirty thousand units delivered to site</p>				
	<p><u>FOUNDATIONS</u></p> <p><u>Brickwork of NFX bricks (14MPa nominal compressive strength) in Class I mortar</u></p>				
1	One brick walls	m2	34		
	<p><u>SUPERSTRUCTURE</u></p> <p><u>Brickwork of NFP bricks (14MPa nominal compressive strength) in class II mortar</u></p>				
2	Half brick walls	m2	312		
3	One brick walls	m2	104		
	<p><u>BRICKWORK SUNDRIES</u></p> <p><u>Bagging of 1:3 cement and sand mixture</u></p>				
4	On brick surfaces	m2	139		
	<p><u>Brickwork reinforcement</u></p>				
5	75mm Wide reinforcement built in horizontally	m	2 008		
6	150mm Wide reinforcement built in horizontally	m	1 089		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Masonry				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>Turning pieces</u>				
7	150mm Wide turning piece to lintels, etc.	m	1 393		
	<u>FACE BRICKWORK</u>				
	<u>"Corobrik Roan Satin" or equally approved face bricks pointed with recessed horizontal and vertical joints</u>				
8	Extra over brickwork for face brickwork in foundations (Provisional)	m2	34		
	<u>"Corobrik Roan Satin" or equally approved face bricks pointed with recessed horizontal and vertical joints</u>				
9	Extra over brickwork for face brickwork externally	m2	104		
10	Extra over brickwork for brick-on-edge header course lintel	m	77		
11	Extra over brickwork for brick-on-edge sill set sloping and slightly projecting	m	77		
	<u>NUTEC-CEMENT WINDOW SILLS</u>				
	<u>"Everite Nutec" or equally approved window sills in single lengths not exceeding 3.6m, bedded in class I mortar including fixing lugs screwed to underside with self tapping screws</u>				
12	150 x 15mm Wide sills set flat and slightly projecting	m	394		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Masonry				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 2 - Demolitions and Alterations

Bill No 4

Masonry

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

30

31

32

Carried Forward to Summary of Section No. 2

Section No. 2 - Demolitions and Alterations
Masonry

KZN DEPARTMENT OF HEALTH

R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 2: DEMOLITIONS AND ALTERATIONS TO EXISTING STRUCTURES</u></p> <p><u>BILL NO. 5</u></p> <p><u>WATERPROOFING</u></p> <p><u>PREAMBLES</u></p> <p>Tenderers are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.120 for CPAP purposes</p> <p><u>Waterproofing</u></p> <p>Waterproofing of roofs, basements, etc., shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets, etc., with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs</p>				
	<p><u>DAMPPROOFING OF WALLS AND FLOORS</u></p> <p><u>One layer of 375 micron Consol Plastics Brikgrip DPC embossed damp proof course</u></p>				
1	In walls	m2	8		
	<p><u>One layer of 250 micron Consol Plastics Gunplas USB Green Waterproof sheeting sealed at laps with Gunplas Pressure Sensitive Tape</u></p>				
2	Under surface beds	m2	57		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Waterproofing				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>Two coats "ABE Brixéal" or equally approved bitumen emulsion waterproofing coating</u>				
3	On bagged brick walls	m2	139		
	<u>One primer coat and one slurry coat "Semflex" or equally approved coating</u>				
4	On shower floors and walls	m2	469		
	<u>JOINT SEALANTS, ETC.</u>				
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc.</u>				
5	10 x 10mm In vertical expansion joints including raking out expansion joint filler as necessary	m	72		
	<u>Approved silicone pointing</u>				
6	Between aluminium windows, doors and walls	m	1 672		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Waterproofing				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 2 - Demolitions and Alterations Bill No 5 Waterproofing <u>COLLECTION</u> Total Brought Forward from Page No.				
		Page No		Amount
		34		
		35		
Carried Forward to Summary of Section No. 2 Section No. 2 - Demolitions and Alterations Waterproofing KZN DEPARTMENT OF HEALTH				R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 2: DEMOLITIONS AND ALTERATIONS TO EXISTING STRUCTURES</u></p> <p><u>BILL NO. 6</u></p> <p><u>ROOF COVERINGS</u></p> <p><u>PREAMBLES</u></p> <p>Tenderers are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.124 for CPAP purposes</p>				
	<p><u>PROFILED METAL SHEETING AND ACCESSORIES</u></p> <p><u>0.58mm Thick "Klip-Tite Z200" with Chromadek® Charcoal Grey finish topcoat and Pebble Grey backing coat roof sheeting or equally approved galvanised roof sheeting in strict accordance with manufacturers specification by a GRS approved contractor</u></p>				
1	Roof covering with pitch not exceeding 25 degrees	m2	1 886		
	<p><u>0.58mm Thick "Klip-Tite Z200" with Chromadek® Charcoal Grey finish topcoat and Pebble Grey backing coat ridge cap including ridge closer or equally approved galvanised ridge capping in strict accordance with architects drawings and manufacturers specification by a GRS approved contractor</u></p>				
2	Close fitting adjustable ridge capping	m	138		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Roof Coverings				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
3	Eaves fillers	m	138		
	<u>ROOF INSULATION</u>				
	<u>"Sisalation FR430" or equally approved heavy industrial grade aluminium foil based insulation</u>				
4	Insulation laid taut over timber rafters at approximately 1260mm centres and fixed concurrent with tiling battens, purlins, etc. including sag wires spaced approximately 275mm apart	m2	1 886		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Roof Coverings				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 2 - Demolitions and Alterations Bill No 6 Roof Coverings <u>COLLECTION</u> Total Brought Forward from Page No.				
		Page No		Amount
		37		
		38		
Carried Forward to Summary of Section No. 2 Section No. 2 - Demolitions and Alterations Roof Coverings KZN DEPARTMENT OF HEALTH				R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO. 2: DEMOLITIONS AND ALTERATIONS TO EXISTING STRUCTURES</u>				
	<u>BILL NO. 7</u>				
	<u>CARPENTRY AND JOINERY</u>				
	<u>PREAMBLES</u>				
	Tenderers are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.126 for CPAP purposes				
	<u>ROOFS, ETC.</u>				
	<u>Sawn Softwood</u>				
1	50 x 76mm Purlins	m	2 770		
	<u>EAVES, VERGES, ETC.</u>				
	<u>"Everite Nutec" or equally approved fascia boards or equal approved to match existing</u>				
2	225 x 12mm Nutec Fascias and barge boards including jointing strips	m	414		
	<u>DOORS, ETC.</u>				
	<u>Solid core doors hung to steel frame</u>				
3	44mm Thick door, size 813 x 2032mm high, flush panel solid core door with commercial veneer, including 813 x 305mm high fanlight (Type C)	No	87		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Carpentry & Joinery				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
4	44mm Thick door, size 813 x 2032mm high, flush panel solid core door with commercial veneer, including 50mm undercut (Type E)	No	36		
	<u>FIRE DOORS, ETC.</u>				
	<u>Hardwood fire rated door hung to steel frame</u>				
5	44mm Thick door, size 1100 x 2100mm high, flush panel solid core door with commercial veneer (Type D)	No	9		
6	44mm Thick door, size 813 x 2075mm high, double sided framed, ledged and braced hardwood solid with 20 x 225mm top and bottom rail, 40 x 110mm stiles, 20 x 110mm braces, 20 x 150mm middle ledge and filled in with 20 x 70mm V-jointed one side boarding (Type F & G)	No	12		
	<u>DUCT COVERS</u>				
	<u>Fibre-cement high density plain flat sheets, or equally approved, fixed to Architect's and Manufacturers specification</u>				
7	10mm Duct covers 2.930mm high, fixed at 450mm centres along edges with brass dome headed screws in cup washers	m	35		
	<u>JOINERY INSTALLATION</u>				
	NOTE: The following fittings have been measured as complete units i.e the components of the units have not been separately measured. The description therefore of such units shall be deemed to include all components, assembling, housing, notching, gluing, blocking, planting on and screwing with countersunk screws, edge strips, cut out for sinks, decorative plastic finish, glass, ironmongery, metalwork, wall mounting brackets, paint or varnish finishes, etc				
	Tenderers must refer to the architect's Joinery drawings and referred to in the items in order to understand the full requirements and descriptions of the works				
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Carpentry & Joinery				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>MERANTI SLATTED BENCHES</u>				
8	Meranti slatted benches 355mm wide with 38 x 38 x 1.6mm floor square tubing including 4 x 70 x 32mm meranti slats (meranti sanded and sealed with edges rounded). Finish and colour of frame and legs : Electro plated epoxy coated in grey with base plates for floor fixing including bolts, as per the architect's drawings and specification complete (Drawing: ARCH-BEN01 & ARCH-BEN03)	m	31		
	<u>FITTINGS</u>				
9	Floor cupboard unit, size 3352 x 600 x 900mm high, in white melamine with 300mm thick Rustenburg granite tops, all joinery fixtures to be manufactured with 18mm moisture resistant V313 melamine board, 2mm edging including doors, bar handles, hinges and all necessary ironmongery complete as per architect's detail drawing and specification (Drawing: ARCH-KC01)	No	9		
10	L-shaped floor cupboard unit, size 4938 x 600 x 900mm high, in white melamine with 30mm Rustenburg granite tops, all joinery fixtures to be manufactured with 18mm moisture resistant V313 melamine board, 2mm edging including doors, bar handles, hinges and all necessary ironmongery complete as per architect's detail drawing and specification (Drawing: ARCH-KC01)	No	9		
11	Cupboard unit, size 1000 x 600 x 2660mm high, in white melamine with all joinery fixtures to be manufactured with 18mm moisture resistant V313 melamine board, 2mm edging including doors, bar handles, hinges and all necessary ironmongery complete as per architect's detail drawing and specification (Drawing: ARCH-KC01)	No	9		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Carpentry & Joinery				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
12	Wall mounted cupboard unit size 3860 x 300 x 1160mm high in white melamine with all joinery fixtures to be manufactured with 18mm moisture resistant V313 melamine board, 2mm edging including doors, bar handles, hinges and all necessary ironmongery complete as per architect's detail drawing and specification (Drawing: ARCH-KC01)	No	9		
13	Built-in cupboard unit size 1000 x 550 x 2560mm high in melamine with 2mm edging including doors, bar handles, hinges, oval ribbed aluminium extrusion coat rail size 35 x 20mm and all necessary ironmongery complete as per architect's detail drawing and specification. (Drawing: ARCH-BIC01)	No	66		
14	Built-in cupboard unit size 2300 x 550 x 2560mm high in melamine with 2mm edging including doors, bar handles, hinges, oval ribbed aluminium extrusion coat rail size 35 x 20mm and all necessary ironmongery complete as per architect's detail drawing and specification. (Drawing: ARCH-BIC02)	No	3		
15	20mm Thick Rustenburg granite vanity unit size 2400 x 600mm wide with 300mm downstand and 150mm splashback, cut out to fit vanity basins with fixing brackets complete as per architect's detail drawing and specification. (Drawing: ARCH-DA01)	No	9		
Carried to Collection					R
Section No. 2 - Demolitions and Alterations Carpentry & Joinery					
KZN DEPARTMENT OF HEALTH					

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 2 - Demolitions and Alterations

Bill No 7

Carpentry & Joinery

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

40

41

42

43

Carried Forward to Summary of Section No. 2

Section No. 2 - Demolitions and Alterations
Carpentry & Joinery

KZN DEPARTMENT OF HEALTH

R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 2: DEMOLITIONS AND ALTERATIONS TO EXISTING STRUCTURES</u></p> <p><u>BILL NO. 8</u></p> <p><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>PREAMBLES</u></p> <p>Tenderers are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.129 Ceilings, 138 Partitioning Systems for CPAP purposes</p> <p><u>Descriptions</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere</p>				
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Ceilings, Partitions & Access Flooring				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>SUSPENDED CEILINGS</u>				
	<u>9mm "JUMBO Plasterboard" or equally approved flush concealed suspended ceiling consisting of 3600mm Jumbo main tees at 1200mm centres in one direction and 1200mm Jumbo cross tees at 400mm centres perpendicular to main tees. Main tees to be suspended at 1200mm centres by means of 25 x 25 x 0.6mm galvanised steel angle, hangers fixed to bulb of main tee with wafer tek screws/steel pop rivets and to slab with 6 x 30mm express nails and washers. Fit 9mm Jumbo Plasterboard to the underside of grid system with tapered edge of board facing down with 25mm drywall screws at 150mm centres. Apply 50mm JUMBO tape to all joints and finish the entire ceiling with 3-5mm JUMBO Skimming Plaster (elsewhere measured) all in strict accordance with manufacturer's instructions</u>				
1	Ceilings suspended not exceeding 1m below roof trusses / concrete soffits	m2	940		
2	Extra over ceiling for a top hung access panel size 580 x 580mm	No	10		
	<u>12mm "JUMBO MR Plasterboard" or equally approved flush concealed suspended ceiling consisting of 3600mm Jumbo main tees at 1200mm centres in one direction and 1200mm Jumbo cross tees at 500mm centres perpendicular to main tees. Main tees to be suspended at 1200mm centres by means of 25 x 25 x 0.6mm galvanised steel angle, hangers fixed to bulb of main tee with wafer tek screws/steel pop rivets and to slab with 6 x 30mm express nails and washers. Fit 12mm Jumbo MR Plasterboard to the underside of grid system with tapered edge of board facing down with 25mm drywall screws at 150mm centres. Apply 50mm JUMBO tape to all joints and finish the entire ceiling with 3-5mm JUMBO Skimming Plaster (elsewhere measured) all in strict accordance with manufacturer's instructions</u>				
3	Ceilings suspended not exceeding 1m below roof trusses / concrete soffits	m2	555		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Ceilings, Partitions & Access Flooring				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
4	Extra over ceiling for a top hung access panel size 580 x 580mm	No	8		
	<u>CORNICES, MOULDINGS, ETC.</u>				
	<u>"Gyproc RhinoArt Cove" or equally approved gypsum cornice fixed to wall using "Gyproc RhinoBed"</u>				
5	75mm Coved cornice	m	1 761		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Ceilings, Partitions & Access Flooring				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 2 - Demolitions and Alterations

Bill No 8

Ceilings, Partitions & Access Flooring

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

45

46

47

Carried Forward to Summary of Section No. 2

Section No. 2 - Demolitions and Alterations
Ceilings, Partitions & Access Flooring

KZN DEPARTMENT OF HEALTH

R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO. 2: DEMOLITIONS AND ALTERATIONS TO EXISTING STRUCTURES</u>				
	<u>BILL NO. 9</u>				
	<u>IRONMONGERY</u>				
	<u>PREAMBLES</u>				
	Tenderers are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.132 for CPAP purposes				
	<u>Finishes to ironmongery</u>				
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded				
	<u>HINGES, BOLTS, ETC.</u>				
	<u>"Union" or equally approved</u>				
1	8352-100SN Aluminium Reflex Hinge 100 mm Anodised	Pairs	90.0		
2	8352-100SS201 2BB 102X76X3MM HINGE SS CE	Pairs	252.0		
3	2X18SCMKD Double Cylinder Profile MKD SC	No	60		
4	2X19SCMKD Knob Cylinder Profile MKD SC	No	78		
	Carried to Collection				
	Section No. 2 - Demolitions and Alterations Ironmongery				R
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
5	2X20SCMKD Single Cylinder Profile MKD SC	No	6		
6	CZ80941SCR Indicator Bolt SC Plated IMP	Pairs	36.0		
<u>CATCHES, CABIN HOOKS, ETC.</u>					
<u>"Union" or equally approved</u>					
7	AL8722AS Coat Hook Rubber Tipped	No	36		
8	PZ-05SS Escutcheon On Rose Profile	Pairs	18.0		
<u>LOCKS</u>					
<u>"Union" or equally approved</u>					
9	L-22315-76SS 315 Door Lock - Stainless Steel	No	114		
10	QD35X85MMSWSS Swing Bolt Dead Lock- 35mm Backset- - Stainless Steel	No	18		
11	L-21315-76SS 323 Cylinder Deadlock - Stainless Steel	No	6		
12	J-881-SIL Panic Latch Push Bar 900mm	No	6		
<u>HANDLES</u>					
<u>"Union" or equally approved</u>					
13	AL6D66-05AS Dove On Plate Profile	Pairs	114.0		
14	AL5512-300BBAS 300mm Pull Handle BTB	Pairs	36.0		
15	AL5D66R-05AS Dove Pull Handle On Backplate RH Profile - 152 X 152mm Plate	No	6		
16	AL5D66L-05AS Dove Pull Handle On Backplate LH Profile - 152 X 152mm Plate	No			
17	MMPS2SCPL OAD for J-Series & Tesa Panic Devices Lever Handle	No	6		
Carried to Collection					R
Section No. 2 - Demolitions and Alterations Ironmongery					
KZN DEPARTMENT OF HEALTH					

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>PUSH PLATES AND KICKING PLATES</u>				
	<u>"Union" or equally approved</u>				
18	AL5066L-05AS Push Plate LH Profile - 152 X 152mm	No	6		
19	AL5066R-05AS Push Plate RH Profile - 152 X 152mm	No			
20	AL5089-250W Kick Plate 250X800X2mm Works	No	114		
	<u>DOOR CLOSERS</u>				
	<u>"ASSA ABLOY" or equally approved</u>				
21	DC200 R&P CLOSER EN 2-4 SIL	No	6		
22	DC300 R&P CLOSER EN 3-6 SIL	No	6		
23	DC500HO CAM ACTION CLOSER EN1-4 HO SIL	No	18		
24	DCA120-40 Straight Mounting Plate For ASSA ABLOY Door Closers	No	30		
25	DCA154-EV1 Parallel Arm Bracket	No	24		
	<u>LETTERS, NAMEPLATES, ETC.</u>				
	<u>SIGNAGE</u>				
	<u>"Union" or equally approved</u>				
26	AL5066-06ASE07 Stairs Direction Sign	No	6		
27	AL5066-06ASE08 General Direction Sign	No	6		
28	AL5066-06ASE12 Male & Female Sign	No			
29	AL5066-06ASE16 Escape Route Sign RH	No	12		
30	AL5066-06ASE17 Cleaner Mop & Bucket Sign	No	18		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Ironmongery				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>"Dormakaba" or equally approved</u>				
31	DSS-145 FHR Stainless steel 150 x 150mm FIRE HOSE REEL sign	No	9		
32	DSS-136 EL Stainless steel 150 x 150mm EXTINGUISHER sign	No	18		
	<u>PHOTOLUMINESCENT SIGNS</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	Signs are to comply with SANS 1186-1 to 5 and to be to the approval of the local authority. Signs are to have anodised aluminium frames				
	Prices are to include for fixing by approved methods. The use of double sided tape will not be permitted. Surface mounted signs are to be concealed fixed and ceiling mounted signs are to be hung with 2mm diameter stainless steel cables				
	Single sided ceiling mounted signs are to have 2mm satin chrome anodised aluminium back panels				
	Samples, specifications, literature, etc of materials and fabricated articles the tenderer proposes to use shall be submitted with the tender				
	A ten year guarantee on materials and workmanship shall be submitted by the successful tenderer.				
	<u>Wall mounted photoluminescent statutory fire signs</u>				
33	300 x 150mm Sign with EXIT sign	No	18		
	<u>Ceiling mounted photoluminescent statutory fire signs</u>				
34	150 x 458mm Sign with three pictograms	No	27		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Ironmongery				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>CURTAIN TRACKS</u>				
	<u>"Leroy Merlin" or equally approved</u>				
35	SKU81425149 Chrome, straight extensible shower curtain rod with stopped ends, etc, plugged to walls	No	36		
	<u>Poly classic shower curtain including hooks supplied by "Builders" or equally approved</u>				
36	Polypropylene shower curtain size 1500 x 2000mm high to suite shower curtain rail / rod, complete	No	36		
	<u>SUNDRIES</u>				
	<u>"Union" or equally approved</u>				
37	9002AS Aluminium Door Stop AS	No	114		
38	RH7024 Patent Fixing Screw - Nickel Plated	No	402		
	<u>BATHROOM FITTINGS</u>				
	<u>"Franke" or equally approved</u>				
39	"Chronos BS646" (Code: 2120073) Satin finished stainless steel single soap dish, size 125 x 90 x 22mm high, with a deep drawn rib tray with holes, plugged and screwed to the wall with stainless steel screws, complete	No	36		
40	"BHM8P" (Code: 2120090) Polished stainless-steel robe hook, plugged and screwed to the wall with stainless steel screws, complete	No	72		
41	"Rodan RODX600" (Code: 2120099), 0,8mm Thick satin finished stainless steel paper towel dispenser size 275 x 112 x 355mm high with a capacity of 500-800 towels, inspection windows on the side and "Franke" standard key, plugged and screwed to the wall with stainless steel screws, complete	No	9		
42	"Rodan RODX605" (Code: 2120097) 0,8mm Thick satin finished stainless steel waste bin size 355 x 168 x 460mm deep wall mounted, complete	No	9		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Ironmongery				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
43	"Rodan RODX619" (Code: 2120095), 0,8mm Thick satin finished stainless steel soap dispenser, size 200 x 85 x 140mm high plugged and screwed to the wall with stainless steel screws, complete	No	45		
44	"Rodan RODX672" (Code: 2120101), 0,8mm Thick satin finished stainless steel double toilet roll holder with spindle system, size 144 x 138 x 301mm high for 2 rolls maximum 120mm diameter with cylinder lock with standard "Franke" key, plugged and screwed to the wall with stainless steel screws, complete	No	27		
Carried to Collection					
Section No. 2 - Demolitions and Alterations Ironmongery					R
KZN DEPARTMENT OF HEALTH					

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 2 - Demolitions and Alterations

Bill No 9

Ironmongery

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

49

50

51

52

53

54

Carried Forward to Summary of Section No. 2

Section No. 2 - Demolitions and Alterations
Ironmongery

KZN DEPARTMENT OF HEALTH

R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 2: DEMOLITIONS AND ALTERATIONS TO EXISTING STRUCTURES</u></p> <p><u>BILL NO. 10</u></p> <p><u>METALWORK</u></p> <p><u>PREAMBLES</u></p> <p>Tenderers are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.136 for CPAP purposes</p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p>				
	<p><u>GALVANIZED STEEL DOOR FRAMES</u></p> <p><u>1.2mm Double rebated frames suitable for half brick walls</u></p>				
1	Single Door 813 x 2032mm high	No	36		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Metalwork				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>1.2mm Double rebated frames suitable for one brick walls</u>				
2	Single Door size 813 x 2032mm high	No	18		
3	Single Door size 813 x 2075mm high	No	21		
4	Single Door size 813 x 2032mm high including 813 x 305mm high fanlight	No	87		
	<u>ALUMINIUM WINDOWS, DOORS, ETC</u>				
	<u>Black anodised aluminium windows glazed with 6.5mm thick clear toughened safety low E film and plugged to brickwork or concrete as per architect's window schedule</u>				
5	Window size 480 x 1200mm high (Type H)	No	9		
6	Window size 480 x 1500mm high (Type B)	No	12		
7	Window size 980 x 1200mm high (Type J)	No	3		
8	Window size 1470 x 400mm high (Type I)	No	3		
9	Window size 1470 x 600mm high (Type K)	No	9		
10	Window size 1470 x 1500mm high (Type A)	No	101		
11	Window size 1950 x 1255mm high (Type G)	No	9		
	<u>Black anodised aluminium windows glazed with 6.5mm thick obscure / white toughened safety low E film and plugged to brickwork or concrete as per architect's window schedule</u>				
12	Window size 480 x 600mm high (Type F1)	No	27		
13	Window size 480 x 1200mm high (Type D)	No	38		
14	Window size 960 x 600mm high (Type E)	No	18		
15	Window size 2490 x 2230mm high (Type L)	No	9		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Metalwork				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
16	Window size 3030 x 2230mm high (Type F) <u>Black anodised aluminium door glazed with 6.5mm thick clear toughened safety low E film and plugged to brickwork or concrete as per architect's window schedule</u>	No	18		
17	Type A - double door size 1280 x 2100 high including aluminium door frame as supplied by manufacturer <u>GALVANISED MILD STEEL BURGLAR BARS, ETC.</u> <u>25 x 5mm Angle section frame with 12mm solid intermediates at equal centres fixed to reveal by M10 rawbolts. Frame to be hot dipped galvanised after manufacture as per architects specification</u>	No	18		
18	To fit window size 480 x 600mm high	No	9		
19	To fit window size 480 x 1200mm high	No	15		
20	To fit window size 480 x 1500mm high	No	12		
21	To fit window size 800 x 1800mm high	No			Rate Only
22	To fit window size 960 x 600mm high	No	6		
23	To fit window size 980 x 1200mm high	No	1		
24	To fit window size 1070 x 600mm high	No			Rate Only
25	To fit window size 1470 x 400mm high	No	3		
26	To fit window size 1470 x 600mm high	No	3		
27	To fit window size 1470 x 1500mm high	No	29		
28	To fit window size 1600 x 600mm high	No			Rate Only
29	To fit window size 1950 x 1300mm high	No	3		
30	To fit window size 2490 x 2230mm high	No	3		
Carried to Collection					
Section No. 2 - Demolitions and Alterations Metalwork				R	
KZN DEPARTMENT OF HEALTH					

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
31	To fit window size 3030 x 2230mm high	No	18		
	<u>STAINLESS STEEL BALUSTRADE</u>				
	<u>S/S balustrades including all necessary stanchions, closed ends, ramps, cleats, bolts, welding, picking, complete as per Architect's instruction and approval</u>				
32	1000mm High straight handrail	m	81		
33	1000mm High raking handrail	m	130		
	<u>STEEL STRONG ROOM DOORS, VENTILATORS, ETC.</u>				
	<u>'CHUBB' or equally approved two hour fire rated (SABS Reference 125-1980) plant room louvred hot dipped galvanised steel doors and frame, etc suitable for 220mm walls fixed to brickwork or concrete</u>				
34	Louvred steel door including frame, double door size 1800 x 2125mm high complete	No	2		
	<u>BUDGETARY ALLOWANCE</u>				
	<u>The following net sums are for work to be executed by the principal contractor and/or specialists and will be measured at completion and priced in terms of the contract</u>				
35	Provide the amount of R 88,000.00 (Eighty Eight Thousand Rand) Nett for the supply, delivery and installation of 8 no. of ducts (kitchen and toilets) including lockable mechanism and associated builder's work, complete		Item		88 000.00
	Carried to Collection			R	
	Section No. 2 - Demolitions and Alterations Metalwork				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 2 - Demolitions and Alterations

Bill No 10

Metalwork

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

56

57

58

59

Carried Forward to Summary of Section No. 2

Section No. 2 - Demolitions and Alterations
Metalwork

KZN DEPARTMENT OF HEALTH

R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO. 2: DEMOLITIONS AND ALTERATIONS TO EXISTING STRUCTURES</u>				
	<u>BILL NO. 11</u>				
	<u>PLASTERING</u>				
	<u>PREAMBLES</u>				
	Tenderers are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.142 for CPAP purposes				
	<u>SCREEDS</u>				
	<u>Screeds on concrete</u>				
1	25mm Thick on floors and landings	m2	2 702		
2	Average 50mm thick on floors to falls and currents	m2	59		
	<u>GRANOLITHIC</u>				
	<u>Untinted granolithic on concrete</u>				
3	Average 30mm thick on floors to falls	m2	30		
4	Skirting 75mm high	m	32		
	<u>INTERNAL PLASTER</u>				
	<u>Cement plaster on brickwork</u>				
5	On walls	m2	8 296		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Plastering				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
6	On narrow widths <u>5mm Thick JUMBO skimming plaster</u>	m2	133		
7	On plasterboards <u>EXTERNAL PLASTER</u> <u>Cement plaster on brickwork</u>	m2	1 495		
8	On walls	m2	862		
9	On narrow widths	m2	119		
Carried to Collection					
Section No. 2 - Demolitions and Alterations Plastering					R
KZN DEPARTMENT OF HEALTH					

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 2 - Demolitions and Alterations

Bill No 11

Plastering

COLLECTION

Total Brought Forward from Page No.

**Page
No**

61

62

Amount

Carried Forward to Summary of Section No. 2

Section No. 2 - Demolitions and Alterations
Plastering

KZN DEPARTMENT OF HEALTH

R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 2: DEMOLITIONS AND ALTERATIONS TO EXISTING STRUCTURES</u></p> <p><u>BILL NO. 12</u></p> <p><u>TILING</u></p> <p><u>PREAMBLES</u></p> <p>Tenderers are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.144 for CPAP purposes</p>				
1	<p><u>WALL TILING</u></p> <p><u>430 x 430mm Ceramic tiles fixed with adhesive to bedding (bedding elsewhere) including Tal Gold 6 rapid setting, joints pointed with Tal Fine Anti-Bacteria / Anti Fungal grout</u></p> <p>On walls</p> <p>1. Materials (nett area) - PC amount of R 350.00/m²</p> <p>2. Proportion of rate adjustable related to PC amount (e.g: waste, etc.) - R</p> <p>3. Proportion of rate not adjustable (e.g: labour, etc.) - R</p> <p>TOTAL (to rate column) - R</p>	m2	1 467		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Tiling				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No	Unit	Quantity	Rate	Amount
2	On narrow widths	m2	13	
	1. Materials (nett area) - PC amount of R 380.00/m ²			
	2. Proportion of rate adjustable related to PC amount (e.g: waste, etc.) - R			
	3. Proportion of rate not adjustable (e.g: labour, etc.) - R			
	TOTAL (to rate column) - R			
3	On splashbacks	m2	41	
	1. Materials (nett area) - PC amount of R 380.00/m ²			
	2. Proportion of rate adjustable related to PC amount (e.g: waste, etc.) - R			
	3. Proportion of rate not adjustable (e.g:labour,etc.) - R			
	TOTAL (to rate column) - R			
	<u>FLOOR TILING</u>			
	<u>600 x 600mm Porcelain floor tiles fixed with adhesive to bedding (bedding elsewhere) including Tal Gold 6 rapid setting, joints pointed with Tal Fine Anti-Bacteria / Anti Fungal grout</u>			
4	On floors and landings	m2	2 388	
	1. Materials (nett area) - PC amount of R 480.00/m ²			
	2. Proportion of rate adjustable related to PC amount (e.g: waste, etc.) - R			
	3. Proportion of rate not adjustable (e.g: labour, etc.) - R			
	TOTAL (to rate column) - R			
	Carried to Collection			R
	Section No. 2 - Demolitions and Alterations Tiling			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
5	100mm High tile skirtings 1. Materials (nett area) - PC amount of R 480.00/m ² 2. Proportion of rate adjustable related to PC amount (e.g: waste, etc.) - R 3. Proportion of rate not adjustable (e.g: labour, etc.) - R TOTAL (to rate column) - R <u>Mosaic tiles fixed with class II mortar to bedding (bedding elsewhere) including Tal Gold 6 rapid setting, joints pointed with Tal Fine Anti-Bacteria / Anti Fungal grout</u>	m	2 853		
6	On shower floors to falls 1. Materials (nett area) - PC amount of R500.00/m ² 2. Proportion of rate adjustable related to PC amount (e.g: waste, etc.) - R 3. Proportion of rate not adjustable (e.g: labour, etc.) - R TOTAL (to rate column) - R <u>CORNER PROTECTORS, DIVIDING STRIPS, ETC.</u> <u>"Kirk" or equally approved</u>	m2	59		
7	"M-Trim ASE150.NA" 15mm High natural anodised aluminium trim bedded in tiles	m	143		
Carried to Collection					
Section No. 2 - Demolitions and Alterations Tiling				R	
KZN DEPARTMENT OF HEALTH					

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 2 - Demolitions and Alterations

Bill No 12

Tiling

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

64

65

66

Carried Forward to Summary of Section No. 2

Section No. 2 - Demolitions and Alterations
Tiling

KZN DEPARTMENT OF HEALTH

R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 2: DEMOLITIONS AND ALTERATIONS TO EXISTING STRUCTURES</u></p> <p><u>BILL NO. 13</u></p> <p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>Tenderers are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.</p>				
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.146 Drainage, 148 Plumbing, for CPAP purposes</p> <p><u>"Polycop" polypropylene pipes</u></p> <p>Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated.</p> <p>Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions.</p> <p>All pipe diameters are nominal external.</p>				
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Plumbing and Drainage				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>"Polylink" polypropylene pipes</u></p> <p>Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron "Supraclamp" running joints.</p> <p>Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured.</p> <p>Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double Z joint couplers.</p> <p>Branch tees shall include flanged and bolted joints to "Polycop" branch pipes in addition and for brass compression male iron to copper straight couplers.</p> <p>Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and reducers shall be of sufficient overall length to accommodate same.</p> <p>All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions.</p> <p>All pipe diameters are nominal external.</p> <p><u>uPVC pipes and fittings</u></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings.</p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed.</p> <p><u>uPVC pressure pipes and fittings</u></p> <p>Pipes for water supply shall be of the class stated.</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings.</p> <p>Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints.</p>				
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Plumbing and Drainage				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>Copper pipes</u></p> <p>Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.</p> <p><u>Fixing of pipes</u></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level.</p> <p><u>Reducing fittings</u></p> <p>Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.</p> <p><u>Wire gratings</u></p> <p>Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings.</p> <p><u>Excavations</u></p> <p>No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling.</p> <p>"Soft rock" and "hard rock" shall be as defined in "Earthworks".</p>				
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Plumbing and Drainage				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>Laying, backfilling, bedding, etc of pipes</u></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.</p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:</p> <p>SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage</p> <p>Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches)</p> <p>Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes).</p> <p>Unless otherwise described bedding of rigid pipes shall be class B bedding.</p> <p><u>Rates</u></p> <p>Rates for all pipe trenches shall include for bedding and backfilling in accordance with the "SABS 1200 Clauses" referred to above, and shall include for the provision of imported selected and granular material as applicable as well as for the disposal of surplus material off site to a dumping site to be found by the Contractor.</p> <p><u>General</u></p> <p>Refer to all Architect's and Civil Engineer's drainage specifications.</p>				
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Plumbing and Drainage				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>RAINWATER DISPOSAL</u>				
	<u>"Watertite" or equally approved pre painted aluminium:</u>				
1	150 x 100mm Seamless eaves gutters.	m	311		
2	Extra over seamless eaves gutter for stopped end.	No	16		
3	Extra over seamless eaves gutter for outlet for 100 x 75mm rainwater downpipe	No	16		
4	100 x 75mm Rainwater downpipe	m	143		
5	Extra over rainwater pipe for bend	No	32		
6	Extra over rainwater pipe for shoe	No	16		
	<u>SANITARY FITTINGS</u>				
7	Vaal ENTICE (product code 439600) or equally approved vitreous china 90° outlet back inlet closed rim wall-hung toilet pan, with quality thermoset soft-close seat and fixed to wall with cradle bracket	No	27		
8	GROHE BAU (Product Code 39422000) or equally approved vitreous china Drop in wash hand basin size 560 x 400 x 200mm, complete with overflow and one tap hole set on vanity unit (elsewhere measured)	No	36		
9	GROHE BAU (Product Code 39440000) or equally approved vitreous china wall mounted wash hand basin size 5553 x 386 x 200mm, complete with overflow and one taphole and fixed to wall using pair of 10mm fixing bolts	No	9		
10	Geberit Model REKORD (Product code 554.107.01.1) or equally approved white fibreglass bath 1700 x 750mm with legs	No	9		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Plumbing and Drainage				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>STAINLESS STEEL</u>				
	The following stainless steel fittings are to be Franke Kitchen Systems (Pty) Ltd., Plumbsteel or other equally approved.				
	The underside of all sink bowls, sinks and drainers are to be sound deadened by the application of an approved guaranteed vermin proof sound deadening emulsion or fibreglass sheeting.				
	The underside of all sink bowls, sinks and drainers are to be sound deadened by the application of an approved guaranteed vermin proof sound deadening emulsion or fibreglass sheeting.				
	All exposed surfaces of stainless steel fittings are to be buffed to an even satin finish all over.				
	Sinks, bowls and basins are to be pressed out of single sheets with complete drainage to outlets and each bowl is to be fitted with integral built-in overflow and chromium plated brass grating and unless otherwise described, 40mm recessed waste outlet and union with chromium plated brass grating, rubber plug and chromium plated brass chain and stay.				
	Prices for all stainless steel fittings are to include for the supply and fixing of the fittings as described and for cleaning, washing and leaving in a satisfactory condition at completion.				
	1,2mm Thick A.I.S.I. Grade 304 (18/10) stainless steel:				
11	FRANKE PROJECTLINE Model PLN 621 size 1160 x 460 polished stainless steel double end bowl drop in sink with 2no 343 x 410 x153mm deep bowls fitted onto worktop (elsewhere measured) and complete with 90mm waste fittings	No	9		
12	Franke Model ET101 size 540 x 430 x 300mm deep stainless steel single wash trough fixed to wall using 6mm rawl bolts	No	18		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Plumbing and Drainage				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>SANITARY PLUMBING</u>				
	<u>Unplasticised polyvinyl chloride (UPVC) pipes including couplings in the running length and fixing to walls, soffits or in chases:</u>				
13	50mm Pipe fixed to wall, soffits, etc.	m	225		
14	110mm Pipe, ditto	m	229		
15	50mm PVC pipe laid in floor under concrete slab not exceeding 500mm deep	m	93		
16	110mm PVC pipe laid in floor under concrete slab not exceeding 500mm deep	m	24		
	<u>Extra on UPVC piping for the following fittings:</u>				
17	50mm BSP adaptors	No	105		
18	50mm Stop end	No	66		
19	50mm Bend	No	293		
20	110mm Bend	No	40		
21	50mm Junction	No	12		
22	110mm Junction	No	4		
23	110mm Reducing junction	No	54		
24	110mm Straight pan collar	No	27		
25	50mm Inspection eye bend	No	24		
26	110mm Inspection eye bend	No	35		
27	50mm Inspection eye junction	No	10		
28	110mm Inspection eye junction	No	25		
29	110mm Inspection eye reducing junction	No	15		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Plumbing and Drainage				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
30	110mm Inspection eye double junction	No	6		
31	110mm Inspection eye double reducing junction	No	18		
32	50mm Vent valve	No	6		
33	110mm Vent valve	No	12		
34	110mm Rodding eye	No	15		
	<u>TESTING</u>				
35	Allow for testing the whole of the sanitary plumbing to the satisfaction of the architect and Local authority. All defective work to removed and made good at the contractors expense and the whole re tested until found satisfactory		Item		
	<u>WASTE , TRAPS , ETC.</u>				
36	32mm chrome plated unslotted waste outlet with 80mm long shank and plug (Product code: Cobra # 303)	No	45		
37	40mm chrome plated unslotted waste outlet with 80mm long shank and plug (Product code: Cobra # 311)	No	36		
38	32mm anti theft plug (Product code: Cobra #309)	No	45		
39	40mm anti theft plug (Product code: Cobra #309)	No	27		
40	32 x 40mm chrome plated deep seal bottle trap with MI outlet and connected to PVC pipe (Product code: Cobra # 345/50)	No	45		
41	50mm brass shower trap with square grating (Product code: Cobra COB373SQ)	No	45		
42	Double bowl sink trap (Product code: SAPZIO F2)	No	18		
43	Geberit bathtub drain (Product code: 150.017.00.1) with waste plug with ready to fit set	No	9		
44	40mm Flexi P trap	No	72		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Plumbing and Drainage				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>BRASSWARE, TAPS, MIXERS, ETC.</u>				
45	Back entry WC, Eco type, front flush access box complete with vandal proof push button assembly , integral vacuum breaker, and flush pipes with elbow and bung rubber (Product code: Cobra KF4.213)	No	27		
46	Single taphole deck type sink mixer with swivel spout and star pattern handles (Product code: COBRA #296)	No	9		
47	15mm chrome plated basin pillar tap with star pattern handles (Product code: Cobra #211)	No	18		
48	Taryn chrome plated basin metering pillar tap (Product code: COBRA # KM2-100)	No	72		
49	Underwall stop tap with star pattern handle (Product code: COBRA # 238-15)	No	108		
50	Vandal proof shower rose (Product code: COBRA # KP 2.6)	No	45		
51	Bath filler and overflow spout (Product code: COBRA # 1811CH)	No	9		
52	Chrome plated angle regulating valve (Product code: COBRA # 832 - 10)	No	108		
53	15mm x 350mm Long braided tap connector	No	108		
54	Chrome plated bib tap with BSP thread (Product code: COBRA #207 EC -15)	No	72		
	<u>BMS pipework with fittings to fire appliances</u>				
55	25mm GMS pipe fixed to wall, soffits, etc.	m	65		
	<u>Extra over for fittings</u>				
56	25mm Fittings	No	60		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Plumbing and Drainage				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>FIRE APPLIANCES</u>				
57	Fire hose reel complete with 30m PVC hose 20mm diameter, chrome plated stopcock, shut off nozzle, and wall brackets, bolted to wall using 8mm expanding wall anchors and connection to pipework	No	9		
58	4.5 DCP fire extinguishers fixed to wall on on meranti backing boards with champhered edges	No	18		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Plumbing and Drainage				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 2 - Demolitions and Alterations

Bill No 13

Plumbing and Drainage

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

68

69

70

71

72

73

74

75

76

77

Carried Forward to Summary of Section No. 2

Section No. 2 - Demolitions and Alterations
Plumbing and Drainage

KZN DEPARTMENT OF HEALTH

R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 2: DEMOLITIONS AND ALTERATIONS TO EXISTING STRUCTURES</u></p> <p><u>BILL NO. 14</u></p> <p><u>ELECTRICAL INSTALLATIONS</u></p> <p><u>PREAMBLES</u></p> <p>Tenderers are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.160 Electrical Installation, 162 Electrical Reticulation, for CPAP purposes</p>				
	<p><u>ELECTRICAL AND ELECTRONICS INSTALLATION</u></p> <p><u>ROUTING INFRASTRUCTURE FOR ELECTRICAL AND ELECTRONICS EQUIPMENT</u></p> <p><u>Trench (including excavation, compaction, backfill and re-instatement of surface)</u></p>				
1	450mm Wide x 600mm deep	m	453		
	<p><u>Supply and install Conduit (including all accessories) - recessed</u></p> <p>Type : PVC</p>				
2	25mm	m	2 045		
3	Conduit Box - 60mm Round x 25mm deep (4 Way)	No	7		
4	Conduit Box - 60mm Round x 25mm deep (3 Way)	No	67		
	Carried to Collection				R
	<p>Section No. 2 - Demolitions and Alterations Electrical Installation</p> <p>KZN DEPARTMENT OF HEALTH</p>				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
5	Conduit Box - 60mm Round x 25mm deep (2 Way)	No	75		
	<u>Supply and install Conduit (including all accessories) Surface mounted/Mounted on Cable tray</u>				
	Type : PVC				
6	25mm	m	2 045		
7	Conduit Box - 60mm Round x 25mm deep (4 Way)	No	7		
8	Conduit Box - 60mm Round x 25mm deep (3 Way)	No	67		
9	Conduit Box - 60mm Round x 25mm deep (2 Way)	No	75		
	Type : Bosal				
10	25mm	m	256		
11	Conduit Box - 60mm Round x 25mm deep (4 Way)	No	4		
12	Conduit Box - 60mm Round x 25mm deep (3 Way)	No	19		
13	Conduit Box - 60mm Round x 25mm deep (2 Way)	No	11		
	<u>Supply and install Cable Tray/Wire Mesh (including all accessories) (Equivalents to be approved by Engineer)</u>				
14	O-Line 304mm wide, 76mm in height, Hot Dip Galvanised (PT76) cable tray or other approved Equivalent	m	350		
15	O-Line 304mm wide, 76mm in height, Hot Dip Galvanised (PT76) cable tray - Horizontal bend or other approved Equivalent	No	7		
16	O-Line 304mm wide, 76mm in height, Hot Dip Galvanised (PT76) cable tray - 3 way Tee or other approved Equivalent	No	4		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Electrical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
17	O-Line 304mm wide, 76mm in height, Hot Dip Galvanised (PT76) cable tray - 4 way or other approved Equivalent	No	2		
18	O-Line 200mm wide (GS50) cable wire mesh, 50mm Height, 50x75mm base aperture, Hot Dip Galvanised, 4mm, Super Zinc fasteners or other approved Equivalent	m	350		
19	O-Line 200mm wide (GS50) cable wire mesh, 50mm Height, 50x75mm base aperture, Hot Dip Galvanised, 4mm, Super Zinc fasteners - External bend or other approved Equivalent	No	7		
20	O-Line 200mm wide (GS50) cable wire mesh, 50mm Height, 50x75mm base aperture, Hot Dip Galvanised, 4mm, Super Zinc fasteners- 3 way Tee or other approved equivalent	m	4		
21	O-Line 200mm wide (GS50) cable wire mesh, 50mm Height, 50x75mm base aperture, Hot Dip Galvanised, 4mm, Super Zinc fasteners- 4 way Tee or other approved equivalent	No	2		
22	Trehaded Rod M10 Hot Dip Galvanised including fasteners and brackets	m	522		
	<u>Supply and install Sleeves/ trunking (including all accessories)(Equivalents to be approved by Engineer)</u>				
23	OL2000 trunking (including covers) or other approved Equivalent	m	72		
24	OL9000 trunking (including covers) or other approved Equivalent	m	72		
25	50mm Sleeve PVC	m	186		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Electrical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>CABLE INSTALLATION</u>				
	<u>Supply and Install (including all accessories)(Equivalentents to be approved by Engineer)</u>				
26	2.5 mm ² House wire - Live (Brown)	m	5 215		
27	2.5 mm ² House wire - Neutral (Blue)	m	5 215		
28	2.5 mm ² House wire - Earth (Green)	m	5 215		
29	3C x 4 mm ² Surfex	m	112		
30	10 mm ² 3 core PVC Insulated PVC BEDDED SWA PVC SHEATED 600/1000V cables manufactured to SANS 1507	m	300		
31	16 mm ² 4 core PVC Insulated PVC BEDDED SWA PVC SHEATED 600/1000V cables manufactured to SANS 1507 +ECC	m	17		
32	25 mm ² 4 core PVC Insulated PVC BEDDED SWA PVC SHEATED 600/1000V cables manufactured to SANS 1507 +ECC	m	21		
33	70 mm ² 1 core PVC Insulated PVC BEDDED SWA PVC SHEATED 600/1000V cables manufactured to SANS 1507	m	17		
34	70 mm ² 4 core PVC Insulated PVC BEDDED SWA PVC SHEATED 600/1000V cables manufactured to SANS 1507 +ECC	m	17		
35	95 mm ² 4 core PVC Insulated PVC BEDDED SWA PVC SHEATED 600/1000V cables manufactured to SANS 1507 +ECC	m	110		
36	185 mm ² 4 core PVC Insulated PVC BEDDED SWA PVC SHEATED 600/1000V cables manufactured to SANS 1507 +ECC	m	30		
37	Medium voltage 70 mm sq XLPE Copper Cable. 6,35/11kV Copper 3 Core, SWA	m	30		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Electrical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>Gland and terminate including the supply and install of cable glands (including all accessories)(Equivalents to be approved by Engineer)</u>				
38	25mm PVC Conduit Gland	No	390		
39	10 mm ² 3 core PVC Insulated PVC BEDDED SWA PVC SHEATED 600/1000V cables manufactured to SANS 1507-3	No	2		
40	16 mm ² 4 core PVC Insulated PVC BEDDED SWA PVC SHEATED 600/1000V cables manufactured to SANS 1507-3 +ECC	No	2		
41	25 mm ² 4 core PVC Insulated PVC BEDDED SWA PVC SHEATED 600/1000V cables manufactured to SANS 1507-3 +ECC	No	6		
42	70 mm ² 1 core PVC Insulated PVC BEDDED SWA PVC SHEATED 600/1000V cables manufactured to SANS 1507-3	No	2		
43	70 mm ² 4 core PVC Insulated PVC BEDDED SWA PVC SHEATED 600/1000V cables manufactured to SANS 1507-3 +ECC	No	8		
44	95 mm ² 4 core PVC Insulated PVC BEDDED SWA PVC SHEATED 600/1000V cables manufactured to SANS 1507-3 +ECC	No	6		
45	185 mm ² 4 core PVC Insulated PVC BEDDED SWA PVC SHEATED 600/1000V cables manufactured to SANS 1507-3 +ECC	No	4		
46	Medium voltage 70 mm sq XLPE Copper Cable. 6,35/11kV Copper 3 Core, SWA, Including heat shrink, Raychem or similar	No	4		
	<u>Cable Joining Kit, Supply and Install (including all accessories)(Equivalents to be approved by Engineer)</u>				
47	Waterproof cable joint kit-Medium voltage 70 mm sq XLPE Copper Cable. 6,35/11kV Copper 3 Core, SWA	No	2		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Electrical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>LIGHTING, SMALL POWER AND ACCESSORIES</u>				
	<u>(Supply & install lighting fixtures including</u>				
	<u>Luminaires fixing brackets and accessories)</u>				
	<u>(Equivalents to be approved by Engineer)</u>				
	<u>Supply & install lighting fixtures including fixing</u>				
	<u>brackets and accessories</u>				
48	LUXON PRISM 50W LED - Aluminium Frame, Prismatic Diffuser, 2.3mm PMMA, Flicker Free, 55000h (L70) , CRI >80, 1.5kV Surge Protection, BAKELITE 600x600 3000K with Plug set or approved equivalent (Surface Mounted)	No	25		
49	LUXON PRISM 50W LED - Aluminium Frame, Prismatic Diffuser, 2.3mm PMMA, Flicker Free, 55000h (L70) , CRI >80, 1.5kV Surge Protection, BAKELITE 600x600 3000K with Plug set WITH 2HOUR Battery BACKUP @ 40% Luminance, Maintenance Free, With LED indicator and audible alarm indicating that the batteries need replacement or approved equivalent (Surface Mounted)	No	25		
50	LUGO 44W LED - Aluminium Frame, Diffuser, T6063 Anodised Finish, Flicker Free, 90000h (L70B10) , CRI >80, 1.5kV Surge Protection, 1200mm,4000K with Plug set, or approved equivalent (Surface Mounted) -IP65	No	32		
51	LUGO 44W LED - Aluminium Frame, Diffuser, T6063 Anodised Finish, Flicker Free, 90000h (L70B10) , CRI >80, 1.5kV Surge Protection, 1200mm,4000K with Plug set, WITH 2HOUR Battery BACKUP @ 40% Luminance, Maintenance Free, With LED indicator and audible alarm indicating that the batteries need replacement or approved equivalent (Surface Mounted) -IP65	No	19		
52	NASA 24W LED- Housing-PMMA, Flicker Free, 50000h (L90B10) , CRI >80, 1.5kV Surge Protection, 580mm,3000K with Plug set, or approved equivalent (Surface Mounted) -IP65	No	229		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Electrical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
53	NASA 24W LED- Housing-PMMA, Flicker Free, 50000h (L90B10) , CRI >80, 1.5kV Surge Protection, 580mm,3000K with Plug set, WITH 2HOUR Battery BACKUP @ 40% Luminance, Maintenance Free, With LED indicator and audible alarm indicating that the batteries need replacement or approved or equivalent (Surface Mounted) -IP64	No	29		
54	NASA 19W LED - Housing-PMMA, Flicker Free, 50000h (L90B10) , CRI >80, 1.5kV Surge Protection, 580mm,3000K with Plug set, or equivalent (Surface Mounted) -IP64	No	34		
55	NASA 19W LED- Housing-PMMA, Flicker Free, 50000h (L90B10) , CRI >80, 1.5kV Surge Protection, 580mm,4000K with Plug set, WITH 2HOUR Battery BACKUP @ 40% Luminance, Maintenance Free, With LED indicator and audible alarm indicating that the batteries need replacement or approved equivalent (Surface Mounted) -IP64	No	34		
56	ODIN 16W LED- Housing-reinforced polypropylene,Diffuser - UV Stabilized Flicker Free, 50000h (L90B10),1.5kV Surge Protection,4000K with Plug set, or approved equivalent (Surface Mounted) - IP65	No	53		
57	ODIN 16W LED- Housing-reinforced polypropylene,Diffuser - UV Stabilized Flicker Free, 50000h (L90B10),1.5kV Surge Protection,4000K with Plug set, WITH 2HOUR Battery BACKUP @ 40% Luminance, Maintenance Free, With LED indicator or approved equivalent (Surface Mounted) -IP65	No	19		
58	ARGO 54W LED- Including, Spigot, 5m Hot Dip Galvanised Pole, Powder coated with Access Hatch, Access Door and Termination block (3x10mm ² 3 core cable and 5x 2.5mm house wire, 5A circuit breaker) Housing-Hail resistant, Diffuser UV Stabilized Flicker Free, 50000h,6kV Surge Protection,4000K,Day/Night sensor or approved equivalent (Installed in ground- Including bolt cage) -IP66	No	10		
59	Flood Light 50W LED- Hosuing-Metal, 6000k, 50 000h, CRI>70 or approved equivalent (Surface Mounted) - IP65 or approved equivalent	No	23		
Carried to Collection					
Section No. 2 - Demolitions and Alterations Electrical Installation				R	
KZN DEPARTMENT OF HEALTH					

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
60	Spazio LED - Metal body, acrylic diffuser, includes LED driver, 3 hour emergency backup. (Ceiling Mounted) - IP20 or approved equivalent	No	18		
61	Lumina 58W LED- Including, Spigot, 36 Degree, 5m Hot Dip Galvanised Pole, Powder coated with Access Hatch, access door and Termination block (3x10mm ² 3 core cable and 5x 2.5mm house wire and 5A circuit breaker) Housing-Hail resistant, Diffuser UV Stabilized Flicker Free, 50000h,6kV Surge Protection,4000K,Day/Night sensor, or approved equivalent (Installed in ground-Including bolt cage) -IP66	No	21		
	<u>Supply and install lighting power infrastructure including fixing brackets and accessories (PVC) (Supply & install lighting fixtures including fixing brackets and accessories) (Equivalents to be approved by Engineer)</u>				
62	Crabtree 10A single lever light switch or other approved equivalent	No	137		
63	Crabtree 10A double lever light switch or other approved equivalent	No	10		
	<u>Supply and install small power outlets including fixing brackets and accessories (PVC) (Supply & install fixtures including fixing brackets and accessories) (Equivalents to be approved by Engineer)</u>				
64	16A, 3 pin, 4x4 Switch Socket + Euro Socket + usb	No	139		
65	16A, 3 pin, 4x4 Switch Socket + Euro Socket	No	12		
66	16A, 3 pin, 4x4 Double Switch Socket	No	305		
67	5A, 3 pin Socket	No	520		
68	10A 1 Phase Isolator (Washing Machine)	No	54		
69	5A Three Phase Isolator (Washing Machine)	No	26		
70	5A Single Phase Isolator (Laundry Room Extraction Fans)	No	9		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Electrical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
71	5A Single Phase Isolator (Laundry)	No	9		
72	20A Single Phase Isolator	No	2		
	<u>Supply and install photo electric cell including brackets and accessories</u>				
73	Photo electric cell unit 10A	No	8		
	<u>Supply and install Wall Heaters Install including fixing brackets and accessories</u>				
74	400W Slim Panel Heater or other approved equivalent	No	207		
	<u>Gate Motor Supply and Install including fixing brackets and accessories (Equivalents to be approved by Engineer)</u>				
75	2x swing arm gate motors with extended stroke(Push Force >249kgf), Mounting Hardware, Controller, Wall Box with 2A SM Charger, 7Ah Battery, Mains Isolator, LED external indicators, 4 remotes, anti-theft brackets,LCD User interface, Manual. Daily operation > 249 per day. System to have Break in alarm, ambush alarm and anti collision systems including sensors. Complete system to be of all weather construction or other approved equivalent	No	1		
	<u>Supply and install power skirting including fixing brackets and accessories (GREY) (Equivalents to be approved by Engineer)</u>				
76	2 Compartment Aluminium Power Skirting complete with covers	m	44		
77	2 Compartment Aluminium Power Skirting internal bends	No	2		
78	2 Compartment Power Skirting end caps	No	37		
79	Single switched socket 16A	No	72		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Electrical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>ENGINEERED EQUIPMENT</u>				
	<u>LV DISTRIBUTION BOARDS - Supply and Install including fixing brackets and accessories</u>				
80	Single Line Diagram Layout LV SWITCHBOARD (MHSA-SB-SLD-REV000)	No	1		
81	Single Line Diagram Layout DB1-GF (DB1-MHSA-GF-REV000)	No	1		
82	Single Line Diagram Layout DB2-GF (DB2-MHSA-GF-REV000)	No	1		
83	Single Line Diagram Layout DB3-GF (DB3-MHSA-GF-REV000)	No	1		
84	Single Line Diagram Layout DB4-FF (DB4-MHSA-FF-REV000)	No	1		
85	Single Line Diagram Layout DB5-FF (DB5-MHSA-FF-REV000)	No	1		
86	Single Line Diagram Layout DB6-FF (DB6-MHSA-FF-REV000)	No	1		
87	Single Line Diagram Layout DB7-SF (DB7-MHSA-SF-REV000)	No	1		
88	Single Line Diagram Layout DB8-SF (DB8-MHSA-SF-REV000)	No	1		
89	Single Line Diagram Layout DB9-SF (DB9-MHSA-SF-REV000)	No	1		
	<u>Electrical Manholes (Including covers and all Building Work)</u>				
90	Electrical Manholes (600x600x600 deep) with Metal Cover	No	20		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Electrical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>CCTV System-Supply and Install including fixing brackets and accessories (Equivalents to be approved by Engineer)</u>				
91	Dahua NVR 64 Channel 2U Ultra 4K (RCDA324)	No	2		
92	8TB SATA 3.5" (CH22-12)	No	2		
93	IP 2MP Dome Camera IR30m WDR 2.7-13.5mm IP67 (ICDA326-6)	No	40		
94	Dome Water-proof Wall Mount Bracket (BRDA101-1)	No	40		
95	IP 4MP WDR IR 60m 2.7-13.5mm Motorized Bullet (ICDA227-2)	No	12		
96	Aluminium Water-proof Junction Box (BRDA107)	No	12		
97	UTEPO 8 Port 10/100 PoE + 1 10/100 TP Uplink (NW110-2)	No	3		
98	11 Port Weatherproof PoE Switch (NW100-6)	No	2		
99	UTEPO 8 Port Gigabit (12VDC Input) Switch (NW101-3)	No	1		
100	18U 800mm Internal 950mm High Floor standing (CA100-1)	No	1		
101	Front Mount Tray 450mm (CA109)	No	2		
102	Cable - CAT6E UTP (CB70-1)	No	2 926		
103	RJ45 Boots and Crimps	No	1		
104	43" 16:9 Full HD 1080P LED Panel (CM43)	No	2		
105	15" to 27" monitor wall mount (BRLC100-1)	No	2		
106	Plastic Enclosure - 300 x 220 x 120mm (CA60)	No	4		
107	Steel Pole 100mm x 100mm (Galvsteel)	No	7		
108	Fittings and Fixtures (PVC 25mm)	No	1		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Electrical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
109	HDMI Cable 5m (LGHDMI)	No	1		
110	i7 PC complete (Dell - I7)	No	1		
111	Block Plan	No	1		
112	Product Manual	No	3		
	<u>Alarm System- Supply and Install including fixing brackets and accessories (Equivalents to be approved by Engineer)</u>				
113	Sherlo Repeater + Battery Back-Up Power Supply	No	6		
114	12v Battery 7.2amp	No	6		
115	Sherlo Panic Button Remote - C/W Pendant Chain or Wall Mount	No	131		
116	MIMIC BASE + POWER SUPPLY	No	1		
117	Cables - Power etc	No	1		
118	Block Plan	No	1		
119	Product Manual	No	1		
	<u>Intercom System (supply and Install including fixing brackets and accessories (Equivalents to be approved by Engineer)</u>				
120	1 to 1 Intercom system with cables and accessories (Including gooseneck mount)	No	1		
	<u>Smoke Detection (supply and Install including fixing brackets and accessories (Equivalents to be approved by Engineer)</u>				
121	Minidisc Remote Indicator - Void Detectors (AI671)	No	25		
122	Ziton Optical sensor Polar White (ZP730-2P)	No	205		
123	Ziton Surface mounting sensor base Polar White (ZP7-SB1-P)	No	205		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Electrical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
124	Ziton Heat sensor Polar White (ZP720-3P)	No	5		
125	White Pluggable base Polar White (SPB-2P)	No	14		
126	Omnidirectional sounder & indicator, white (102 dBA)* Polar White (ZP755HAV-2P)	No	14		
127	Ziton Isolator base for seven series sensors (ZP7-IB-P)	No	11		
128	Ziton Flush mounting red analogue callpoint (172101)	No	14		
129	Surface mounting box with connector, red (DMN787)	No	14		
130	Hinged transparent MCP protection cover (DMN782)	No	14		
131	Resettable element manual call points (DMN800)	No	14		
132	A Series mini relay unit (99102)	No	14		
133	Relay Enclosure (PVC)	No	14		
134	Electro Magnetic Lock - 12VDC (273kg)	No	7		
135	Electro Magnetic Lock ZL Bracket	No	7		
136	12v Battery 7.2amp (Forbatt)	No	7		
137	3.2amp Power Supply (Meanwell)	No	7		
138	PH30 Fire Cable	No	6 160		
139	ZP2 Fire Panel - large cabinet - 4 Loop - complete	No	1		
140	Block Plan	No	1		
141	Product Manual	No	3		
	<u>Access Control - Finger Print Scanner</u> <u>Supply, deliver, install, test & commission the</u> <u>following including fixing brackets and accessories</u> <u>(Equivalents to be approved by Engineer)</u>				
142	Portal Cluster Controller, Wiegand Module (72HCW930)	No	3		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Electrical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
143	Portal Wiegand Reader Module (72HMMW901)	No	3		
144	ImproX Integrated Power Supply (IPS) - Black Metal Box (72IPS900-0-0-GB)	No	6		
145	12v Battery 7.2amp	No	6		
146	Sigma Lite (Multi) WR - Lite - Biometrics (691201-02-WRL03)	No	14		
147	Sigma Upgrade - Users 3 000 - License (691001-02)	No	14		
148	Electro Magnetic Lock - 12VDC (78BEL600S)	No	6		
149	Electro Magnetic Lock ZL Bracket (78ZL600)	No	6		
150	Call Point - resettable green, with lid (76200-RG-V2)	No	6		
151	MSO300 Biometric enrolment reader	No	1		
152	4 Port Switch	No	1		
153	Switch Enclosure	No	4		
154	i7 PC and Monitor	No	1		
155	Mylar Cable	No	924		
156	Cat5e Cable	No	308		
157	1mm Power Cable	No	154		
158	Block Plan	No	1		
159	Product Manual	No	3		
	<u>Close out</u>				
160	Close-out documentation (As-builts, Equipment Manuals, etc)			SUM	
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Electrical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>Labelling, Test and Commissioning</u>				
161	Test and Commissioning and all electrical and electronic (Smoke Detection, CCTV, Access Control, Alarm, Intercom, Gate motor, etc) equipment and systems			SUM	
162	Labeling of all electrical equipment (Each Component to have minimum of DB and Circuit Designation) (LABELING TO BE DONE IN TRAFOLLITE (BLACK LETTERS WITH WHITE BACKGROUND)			SUM	
163	Labeling of all electronic equipment (LABELING TO BE DONE IN TRAFOLLITE (BLACK LETTERS WITH WHITE BACKGROUND)			SUM	
164	Safety, Usage and Warning Labeling (LABELING TO BE DONE IN ABS Plastic - 0.9mm White Plastic (Various Text and Images)	No	50		
	<u>BUDGETARY ALLOWANCES</u>				
	<u>Scaffolding Supply and Install including fixing brackets and accessories (Equivalents to be approved by Engineer)</u>				
165	Movable Scaffolding			SUM	
	<u>Electronic Link Supply and Install including fixing brackets and accessories (Equivalents to be approved by Engineer)</u>				
166	Accommodation link to Main hospital control and security centre - Including Additional Fire Panel, NVR, Routing, cabling, trenching, re-instatement of surfaces, additional routing infrastructure		Item		275 025.00
	<u>Earthing and Lighting protection System (LPS) Supply and Install including fixing brackets and accessories (Equivalents to be approved by Engineer)</u>				
167	Design, Supply and Install underground earthing and LPS		Item		81 407.40
	Carried to Collection			R	
	Section No. 2 - Demolitions and Alterations Electrical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No	Unit	Quantity	Rate	Amount
<u>Supply Upgrade- Supply and Install including fixing brackets and accessories (Equivalents to be approved by Engineer)</u>				
168				
Upgrade to 500kVA, 11kV/415V transformer (Vacuum Technology) including, steel enclosure, platform, sleeves, etc (Single Line Diagram Layout MINI SUB)(MHSA-MS-SLD-REV000)		Item		704 064.00
<u>Decommissioning and Removal</u>				
169				
Decommissioning and removal to existing buildings - Electrical and electronic equipment		Item		38 503.50
Carried to Collection				
Section No. 2 - Demolitions and Alterations Electrical Installation				R
KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 2 - Demolitions and Alterations

Bill No 14

Electrical Installation

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

Carried Forward to Summary of Section No. 2

Section No. 2 - Demolitions and Alterations
Electrical Installation

KZN DEPARTMENT OF HEALTH

R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 2: DEMOLITIONS AND ALTERATIONS TO EXISTING STRUCTURES</u></p> <p><u>BILL NO. 15</u></p> <p><u>MECHANICAL WORK</u></p> <p><u>PREAMBLES</u></p> <p>Tenderers are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.170 Mechanical, 171 Ductwork, 172 Refrigeration for CPAP purposes</p>				
	<p><u>HOT & COLD WATER INSTALLATION</u></p> <p><u>CONTRACT ADMINISTRATION AND GENERAL REQUIREMENTS</u></p>				
1	Working drawings			SUM	
2	Scaffolding to a height of 5m			SUM	
3	Staff Training			SUM	
4	Health and Safety requirements			SUM	
5	Test and Commissioning			SUM	
	<p><u>HOT & COLD WATER SUPPLY</u></p>				
6	Hot & cold water supply pipe	m	164		
	Carried to Collection			R	
	Section No. 2 - Demolitions and Alterations Mechanical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>TRENCHING</u>				
	Trenching to 600mm wide to a maximum depth of 750mm. Contractor shall allow for all excavations, backfilling and removal of excess material off site				
	<u>HDPE STRAIGHT PIPING FOR WELDED FLANGES</u>				
	HPDE CLASS 10. Pipework shall be flanged and pressure tested to 600Kpa. Pipework to be laid on a bed of 100mm thick Umgeni sand, top and bottom of pipe and backfilled with excavation material				
	<u>HOT</u>				
7	Ø63mm	m	240		
	<u>COLD</u>				
8	Ø63mm	m	30		
	<u>HDPE STRAIGHT PIPING FOR WELDED COUPLING</u>				
	HPDE CLASS 10. Pipework shall be joined by electro fusion and pressure tested to 600Kpa. Pipework to be laid on a bed of 100mm thick Umgeni sand, top and bottom of pipe and backfilled with excavation material				
	<u>HOT</u>				
9	Ø40mm	m	46		
10	Ø25mm	m	270		
11	Ø20mm	m	21		
	<u>COLD</u>				
12	Ø40mm	m	21		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Mechanical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>HDPE WELDED FLANGES</u>				
	<u>HOT</u>				
13	Ø63mm	No	120		
	<u>HDPE WELDED BENDS</u>				
	<u>COLD</u>				
14	Ø63mm	No	7		
	<u>HDPE COMPRESSION BENDS</u>				
	<u>HOT</u>				
15	Ø63mm	No	7		
16	Ø40mm	No	20		
17	Ø25mm	No	17		
18	Ø20mm	No	17		
	<u>HDPE COMPRESSION TEE</u>				
	<u>COLD</u>				
19	Ø110xØ110xØ63mm	No	4		
20	Ø110xØ110xØ40mm	No	7		
21	Ø63xØ63xØ40mm	No	8		
22	Ø25xØ25xØ25mm	No	8		
	<u>Ø20 HDPE SADDLE ON MAIN PIPE</u>				
23	Ø63mm PIPE	No	4		
	<u>HDPE TO COPPER ADAPTORS</u>				
24	Ø110mm HDPE TO 108mm COPPER	No	3		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Mechanical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
25	Ø40mm HDPE TO 35mm COPPER	No	12		
26	Ø25mm HDPE TO 22mm COPPER	No	3		
27	Ø20mm HDPE TO 15mm COPPER	No	3		
<u>COPPER PIPEWORK WITH SOLDERED FITTINGS</u>					
Class 2 Copper piping with soldered fittings . The rate for straight pipework up to Ø22 shall be inclusive of all fittings					
<u>STRAIGHT PIPEWORK</u>					
<u>COLD</u>					
28	Ø108mm	m	25		
29	Ø54mm	m	60		
30	Ø42mm	m	86		
31	Ø35mm	m	302		
32	Ø22mm INCLUSIVE OF FITTINGS	m	124		
33	Ø15mm INCLUSIVE OF FITTINGS	m	703		
<u>HOT</u>					
34	Ø54mm	m	25		
35	Ø35mm	m	80		
36	Ø22mm INCLUSIVE OF FITTINGS	m	245		
37	Ø15mm INCLUSIVE OF FITTINGS	m	828		
<u>SOLDERED TEES</u>					
38	Ø108xØ108xØ54mm	No	7		
39	Ø54xØ54xØ35mm	No	10		
Carried to Collection					R
Section No. 2 - Demolitions and Alterations Mechanical Installation					
KZN DEPARTMENT OF HEALTH					

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
40	Ø54xØ54xØ22mm	No	7		
41	Ø54xØ54xØ15mm	No	4		
42	Ø42xØ42xØ35mm	No	14		
43	Ø35xØ35xØ35mm	No	34		
44	Ø35xØ35xØ15mm	No	20		
	<u>SOLDERED REDUCERS</u>				
45	Ø108xØ54mm	No	3		
46	Ø54xØ42mm	No	6		
47	Ø54xØ35mm	No	3		
48	Ø35xØ22mm	No	6		
	<u>SOLDERED BENDS</u>				
49	Ø54mm	No	14		
50	Ø35mm	No	140		
	<u>VALVES & FITTINGS</u>				
	<u>BALL-O FIX VALVES</u>				
51	Ø54mm BRASS	No	12		
52	Ø35mm BRASS	No	24		
53	Ø22mm IRON	No	51		
54	Ø15mm IRON	No	219		
	<u>BUTTERFLY VALVE</u>				
55	Ø110mm STAINLESS STEEL	No	3		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Mechanical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>FLEXIBLE PIPES WITH FEMALE CONNS</u>				
56	Ø22mm IRON	m	39		
57	Ø15mm IRON	m	162		
58	COBRA Senior flush valve	No	39		
	Standard flush master toilet flush valve, ,exposed type chrome, includes top entry flush pipe, compression pan connector, integral vacuum breaker control stopper and non hold open feature to SANS 1240. Model FM1-210				
	<u>INSULATION</u>				
	All underground hot water pipework to be insulated with 30mm thermaflex. All joints to be properly glued to manufactures specification				
	<u>STRAIGHT PIPING</u>				
59	Ø63mm	m	240		
60	Ø40mm	m	46		
61	Ø25mm	m	270		
62	Ø20mm	m	21		
	<u>HDPE WELDED FLANGES</u>				
63	Ø63mm	No	120		
	<u>INSULATION</u>				
	All hot water pipework to be insulated with 15mm thermaflex. All joints to be properly glued to manufactures specification				
64	Ø54mm	m	25		
65	Ø35mm	m	80		
66	Ø22mm	m	245		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Mechanical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
67	Ø15mm	m	828		
	<u>VENTILATION</u>				
	<u>CONTRACT ADMINISTRATION AND GENERAL REQUIREMENTS</u>				
68	Working drawings			SUM	
69	Scaffolding to a height of 5m			SUM	
70	Staff Training			SUM	
71	Test and Commissioning			SUM	
	<u>FILTERS</u>				
	Washable polypleat filters includes spare set filters to be changed before handover				
72	450x200x50mm Washable filters	No	9		
	<u>CANOPY STOP STARTS</u>				
73	380V, stop start contactors for canopies	No	15		
	<u>FANS</u>				
	Supply and install fans as per specification- Donkin or equally approved. All fans to include for overload protection				
74	Donkin Bellax dia 315-15-B4 2880 rpm.Blade angle 24°, complete with 0,55kw motor antivibration mounts.Air quantity 600l/s @ 250Pa.Kitchen extract.Mounted on 1,6mm diaphragm plate	No	9		
75	Donkin Bellax dia 315-15-B4 2880 rpm.Blade angle 20°, complete with 0,55kw motor antivibration mounts.Air quantity 600l/s @ 200Pa.Kitchen extract.Mounted on 1,6mm diaphragm plate	No	3		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Mechanical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
76	Donkin Bellax dia 315-15-B4 2880 rpm.Blade angle 2°, complete with 0,55kw motor antivibration mounts.Air quantity 800l/s @ 200Pa.Kitchen extract.Mounted on 1,6mm diaphragm plate	No	6		
77	Donkin Bellax dia 315-15-B4 2880 rpm.Blade angle 12°, complete with 0,55kw motor antivibration mounts.Air quantity 320l/s @ 250Pa.Kitchen extract.Mounted on 1,6mm diaphragm plate	No	6		
78	Donkin Bellax dia 315-15-B4 2880 rpm.Blade angle 8°, complete with 0,55kw motor antivibration mounts.Air quantity 210l/s @ 250Pa.Fresh air supply fan.Mounted on 1,6mm diaphragm plate	No	9		
79	Sodecca HCD 35-4M propellor fan extract air fan.Air quantity 140l/s @ 100Pa. Laundry extract fan	No	9		
	<u>WEATHER LOUVRES</u>				
	Aluminium weather louvre complete with bird mesh and OBD. Frame 50p NAI or equally approved				
80	370x370mm	No	9		
81	500x500mm	No	45		
	<u>SUPPLY AIR GRILLE</u>				
	Aluminium supply air grille . Type double deflection and opposed bladed dampers. NAI or equally approved				
82	150x150mm	No	60		
	<u>RETURN AIR GRILLE</u>				
	Aluminium return air grille . Type return air with filter media. NAI or equally approved				
83	500x500mm	No	15		
	<u>DOOR GRILLE</u>				
	Aluminium door grille . Type DG with 20p frame. NAI or equally approved				
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Mechanical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
84	600x400mm	No	18		
	<u>TOILET EXTRACT GRILLE</u>				
	Model LVS disc valve. Trox or equally approved				
85	Ø 200mm	No	132		
	<u>EXTRACT CANOPY</u>				
	304 stainless steel Cyclovent CB-100B extract canopy. Canopy to be fitted with lights ex Alex Murray. All sizes in mm				
86	1500wx800dx500h	No	9		
87	800wx800dx500h	No	6		
	<u>Uninsulated ductwork</u>				
	Supply and install uninsulated ductwork in accordance with specification				
88	500x500mm	m	24		
89	600x250mm	m	66		
90	500x250mm	m	20		
91	450x250mm	m	35		
92	400x200mm	m	11		
93	250x225mm	m	32		
	<u>Uninsulated spigots</u>				
94	Ø200mm Spigots	No	132		
	<u>Uninsulated straight duct</u>				
95	Ø200mm	m	80		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Mechanical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>Un-insulated filter section</u>				
	150mm Long filter section with 25x25x1,0mm sheet metal angles pop riveted top and bottom to support 50mm filter media. Box to be flanged both ends with access door for filter removal				
96	500x500mm	No	9		
	<u>Galvanised wire mesh screen</u>				
97	250x200mm	No	9		
	<u>Stop Ends</u>				
98	600x250mm	No	12		
99	500x250mm	No	9		
100	450x250mm	No	3		
101	400x200mm	No	6		
102	250x225mm	No	6		
	<u>Uninsulated Sheet metal Radius bends</u>				
	Radius 100mm round bend with vanes. All sizes in mm				
103	500x250x45°	No	18		
104	400x200x45°	No	12		
	<u>Uninsulated Sheet metal Radius bends</u>				
	100mm square bend with vanes. All sizes in mm				
105	600x250x90°	No	12		
106	450x250x90°	No	3		
	<u>Uninsulated flexible duct</u>				
107	500x500mm	No	33		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Mechanical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 2 - Demolitions and Alterations

Bill No 15

Mechanical Installation

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

- 96
- 97
- 98
- 99
- 100
- 101
- 102
- 103
- 104
- 105
- 106

Carried Forward to Summary of Section No. 2

Section No. 2 - Demolitions and Alterations
Mechanical Installation

KZN DEPARTMENT OF HEALTH

R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 2: DEMOLITIONS AND ALTERATIONS TO EXISTING STRUCTURES</u></p> <p><u>BILL NO. 16</u></p> <p><u>GLAZING</u></p> <p><u>PREAMBLES</u></p> <p>Tenderers are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.150 for CPAP purposes</p>				
	<p><u>GLAZING TO ALUMINIUM WITH BEADS FIXED TO MANUFACTURERS SPECIFICATION (BEADS ELSEWHERE)</u></p> <p><u>6.5mm Thick toughened safety glass</u></p>				
1	Panes exceeding 0.1m2 and not exceeding 0.5m2	m2	21.84		
	<p><u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u></p> <p><u>6mm Silvered float glass copper backed mirrors with polished edges fixed with double sided adhesive tape</u></p>				
2	Mirror 475 x 820mm high	No	36		
	Carried Forward to Summary of Section No. 2				R
	Section No. 2 - Demolitions and Alterations Glazing				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO. 2: DEMOLITIONS AND ALTERATIONS TO EXISTING STRUCTURES</u>				
	<u>BILL NO. 17</u>				
	<u>PAINTWORK</u>				
	<u>PREAMBLES</u>				
	Tenderers are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.152 for CPAP purposes				
	<u>PAINTWORK, ETC., TO NEW WORK</u>				
	<u>ON FLOATED PLASTER</u>				
	<u>One coat 'Dulux Trade Alkali Resistant Primer' and two coats 'Dulux Trade 70 Midsheen' paint or equally approved paint</u>				
1	On internal walls	m2	6 908		
	<u>One coat 'Dulux Trade Alkali Resistant Primer' and two coats 'Trade 100 Lowsheen' paint or equally approved paint</u>				
2	On external walls	m2	981		
	<u>ON SMOOTH CONCRETE</u>				
	<u>One coat 'Dulux Trade Alkali Resistant Primer' and two coats 'Dulux Wash and Wear Silk' or equally approved</u>				
3	On ceilings and beams	m2	104		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Paintwork				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>ON PLASTER BOARD</u>				
	<u>One coat 'Dulux Trade Alkali Resistant Primer' and two coats 'Dulux Trade 100 Lowsheen' paint or equally approved paint</u>				
4	On ceilings and cornices	m2	1 495		
	<u>ON FIBRE-CEMENT, ETC.</u>				
	<u>One coat 'Dulux Trade Alkali Resistant Primer' and two coats 'Dulux Trade 100 Lowsheen' paint or equally approved paint</u>				
5	On exterior fascias and barge boards	m2	94		
6	On interior sills	m2	67		
	<u>ON METAL</u>				
	<u>Prepare and apply one coat "Dulux" cleaner for galvanised iron, one coat "Dulux" primer for galvanised iron, one coat "Dulux Trade" universal undercoat and two coats "Dulux" gloss enamel or equally approved paint</u>				
7	On backs of door frames	m2	175		
	<u>ON WOOD</u>				
	<u>Three coats 'Dulux Woodguard Timbavarnish' including sanding lightly down between coats of varnish or equally approved varnish</u>				
8	On doors	m2	33		
	<u>One coat "Dulux Primer" for wood, one coat "Dulux" universal undercoat and two coats "Dulux Pearl glo Polyurethane Non-drip Enamel" or equally approved paint</u>				
9	On doors	m2	548		
	Carried to Collection				
	Section No. 2 - Demolitions and Alterations Paintwork				
	KZN DEPARTMENT OF HEALTH				
				R	

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>PAINTWORK TO PREVIOUSLY PAINTED WORK</u></p> <p><u>PREPARATORY WORK TO EXISTING WORK</u></p> <p><u>Previously painted plastered surfaces</u></p> <p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth.</p> <p><u>Previously painted metal surfaces</u></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal.</p> <p><u>Previously painted wood surfaces</u></p> <p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth.</p> <p><u>ON SMOOTH CONCRETE</u></p> <p><u>One coat 'Dulux Trade Alkali Resistant Primer' and two coats 'Dulux Wash and Wear Silk' or equally approved</u></p>				
10	On ceilings and beams	m2	1 046		
	Carried to Collection				R
	Section No. 2 - Demolitions and Alterations Paintwork				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 2 - Demolitions and Alterations

Bill No 17

Paintwork

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

109

110

111

Carried Forward to Summary of Section No. 2

Section No. 2 - Demolitions and Alterations
Paintwork

KZN DEPARTMENT OF HEALTH

R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Bill No	SECTION SUMMARY - Section No. 2 - Demolitions and Alterations	Page No	Amount
1	Alterations	20	
2	Earthworks	24	
3	Concrete, Formwork & Reinforcement	29	
4	Masonry	33	
5	Waterproofing	36	
6	Roof Coverings	39	
7	Carpentry & Joinery	44	
8	Ceilings, Partitions & Access Flooring	48	
9	Ironmongery	55	
10	Metalwork	60	
11	Plastering	63	
12	Tiling	67	
13	Plumbing and Drainage	78	
14	Electrical Installation	95	
15	Mechanical Installation	107	
16	Glazing	108	
17	Paintwork	112	
	Carried to Final Summary		
	Section No. 2 - Demolitions and Alterations		R
	KZN DEPARTMENT OF HEALTH		

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 3: DEMOLITIONS AND ALTERATIONS TO EXISTING STRUCTURES</u></p> <p><u>BILL NO. 1</u></p> <p><u>EXTERNAL WORKS (ALL TRADES) (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>Tenderers are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.102 Alterations, 124 Metal roofing, 126 Carpentry and Joinery, 142 In-situ finishes, 148 Plumbing and 152 Painting for CPAP purposes</p>				
	<p><u>REMEDIAL WORK TO EXISTING COVERED WALKWAYS</u></p> <p><u>REMOVAL OF EXISTING WORK</u></p> <p><u>Taking out and removing roofs, floors, panelling, ceilings, partitions, etc.</u></p>				
1	Roof covering including timber / steel roof construction	m2	200		
	<p><u>Hacking off and removing granolithic, screeds, plaster, etc., from concrete or brickwork and preparing surfaces for new screeds, plaster, etc.</u></p>				
2	20mm Screed from floors	m2	200		
	Carried to Collection				R
	Section No. 3 - External Works to Existing Structure External Works (All trades)				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>PREPARATORY WORK TO EXISTING SURFACES</u>				
3	Hacking surface of existing floors to create key to receive new floor finish	m2	200		
	<u>Sanding down and cleaning</u>				
4	Existing steel posts	m2	71		
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
	<u>0.58mm Thick "Klip-Lok 406" or equally approved galvanised roof sheeting in strict accordance with specification</u>				
5	Roof covering with pitch not exceeding 25 degrees	m2	342		
6	Eaves flashing 580mm girth three times bent	m	268		
	<u>HOT DIPPED GALVANISED STEEL COLUMNS, RAFTERS, BEAMS ETC. INCLUDING CONNECTIONS</u>				
	<u>Welded columns in single lengths with base plates, connection plates bolted to concrete, etc</u>				
7	254 x 146 x 31 I-beam	t	8.46		
8	IPE 140 x 73 x 13 Rafter beam	t	0.87		
	<u>HOT DIPPED GALVANISED STEEL PURLINS, GIRTS, BRACING, ETC.</u>				
	<u>Purlins bolted to steel</u>				
9	125 x 75 x 20 x 2 CRLC purlins	t	2.01		
	<u>BOLTS, ETC.</u>				
	Carried to Collection				R
	Section No. 3 - External Works to Existing Structure External Works (All trades)				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>RAINWATER DISPOSAL</u>				
	<u>"Watertite" or equally approved pre painted aluminium:</u>				
12	150 x 100mm Seamless eaves gutters	m	134		
13	Extra over seamless eaves gutter for stopped end.	No	2		
14	Extra over seamless eaves gutter for outlet for 100 x 75mm rainwater downpipe	No	15		
15	100 x 75mm Rainwater downpipe	m	57		
16	Extra over rainwater pipe for bend	No	30		
17	Extra over rainwater pipe for shoes	No	15		
	<u>PAINTWORK, ETC., TO PREVIOUSLY PAINTED WORK</u>				
	<u>ON METAL</u>				
	<u>Prepare and apply one coat "Dulux" cleaner for galvanised iron, one coat "Dulux" primer for galvanised iron, one coat "Dulux Trade" universal undercoat and two coats "Dulux" gloss enamel or equally approved paint</u>				
18	On steel posts	m2	71		
	Carried to Collection				R
	Section No. 3 - External Works to Existing Structure External Works (All trades)				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 3 - External Works to Existing Structure

Bill No 1

External Works (All trades)

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

114

115

116

117

Carried to Final Summary

R

Section No. 3 - External Works to Existing Structure
External Works (All trades)

KZN DEPARTMENT OF HEALTH

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO. 4: NEW LINKS</u>				
	<u>BILL NO. 1</u>				
	<u>EARTHWORKS (PROVISIONAL)</u>				
	<u>PREAMBLES</u>				
	Tenderers are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.104 for CPAP purposes				
	<u>EXCAVATION, FILLING, ETC., OTHER THAN BULK</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
1	Reduced levels under floors	m3	131		
2	Trenches	m3	258		
3	Holes	m3	103		
	<u>Extra over trench and hole excavation in earth for excavation in</u>				
4	Soft rock	m3	49		
5	Hard rock	m3	25		
	Carried to Collection				R
	Section No. 4 - New Works Earthworks				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 98% Mod AASHTO density</u>				
6	Not exceeding 500mm deep for placing and removing formwork to walls, etc., 500mm away from excavated face	m2	275		
7	Exceeding 500mm and not exceeding 1500mm deep for placing and removing formwork to walls, etc., 500mm away from excavated face	m2	550		
	<u>Extra over all excavations for carting away</u>				
8	Surplus material from excavations and stock piles on site to a dumping site to be located by the contractor	m3	307		
	<u>Risk of collapse of excavations</u>				
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	825		
	<u>Keeping excavations free of water</u>				
10	Keeping excavations free of water		Item		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>				
11	Backfilling to trenches, holes, etc.	m3	186		
	<u>Earth filling, G7 material in accordance with SANS 1200 ME, supplied by the contractor, compacted to 95% Mod AASHTO density</u>				
12	Under floors, steps, pavings, etc.	m3	98		
	<u>Compaction of surfaces</u>				
13	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 95% Mod. AASHTO density.	m2	397		
	Carried to Collection				R
	Section No. 4 - New Works Earthworks				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 4 - New Works

Bill No 1

Earthworks

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

119

120

121

Carried Forward to Summary of Section No. 4

R

Section No. 4 - New Works
Earthworks

KZN DEPARTMENT OF HEALTH

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 4: NEW LINKS</u></p> <p><u>BILL NO. 2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>PREAMBLES</u></p> <p>Tenderers are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.110 Concrete, 111 Formwork, 114 Reinforcement for CPAP purposes</p> <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 SANS 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>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>				
	Carried to Collection				R
	Section No. 4 - New Works Concrete, Formwork & Reinforcement				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<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 solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</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>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></p> <p><u>15 MPa/19mm Concrete</u></p>				
1	Blinding	m3	12		
	<p><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></p> <p><u>25MPa/19mm Concrete</u></p>				
2	Bases	m3	34		
3	Ramps	m3	3		
4	Strip footings	m3	86		
5	Surface beds on waterproofing	m3	33		
	Carried to Collection				R
	Section No. 4 - New Works Concrete, Formwork & Reinforcement				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>REINFORCED CONCRETE</u>				
	<u>30MPa/19mm Concrete</u>				
6	Slabs including beams and inverted beams	m3	206		
7	Columns in foundations	m3	2		
8	Columns	m3	37		
	<u>TEST BLOCKS</u>				
9	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	18		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a steel float</u>				
10	Surface beds, slabs, etc.	m2	717		
	<u>Finishing top surfaces of concrete smooth with a power float</u>				
11	Surface beds, slabs, etc.	m2	328		
	<u>FORMWORK</u>				
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
	<u>Rough formwork to sides</u>				
12	Strip footings	m2	215		
13	Bases (Provisional)	m2	60		
14	Rectangular columns in foundations (Provisional)	m2	20		
	Carried to Collection				R
	Section No. 4 - New Works Concrete, Formwork & Reinforcement				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>				
	<u>Smooth formwork to sides</u>				
15	Rectangular columns	m2	443		
	<u>Smooth formwork to soffits</u>				
16	Slabs propped up exceeding 1,5m and not exceeding 3,5m deep	m2	690		
	<u>Smooth formwork to sides and soffits</u>				
17	Beams propped up exceeding 1,5m and not exceeding 3,5m high	m2	302		
	<u>MOVEMENT JOINTS, ETC.</u>				
	<u>Expansion joints with expanded polyethelene and tear off strip between vertical concrete and brick surfaces</u>				
18	10mm Joints not exceeding 300mm high	m	215		
	<u>Saw cut joints</u>				
19	50 x 3mm Saw cut joints in top of concrete	m	95		
	<u>Vertical joggle construction joints through concrete, including thick cement slurry to one face</u>				
20	Surface beds not exceeding 300mmm thick	m	517		
	<u>REINFORCEMENT</u>				
	<u>Mild steel bar reinforcement and high tensile steel bar reinforcement, including hoisting or lowering and fixing in position complete</u>				
21	Reinforcing bars in varying diameters	t	48.26		
	Carried to Collection				R
	Section No. 4 - New Works Concrete, Formwork & Reinforcement				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>Fabric Reinforcement</u>				
22	Type 617 fabric reinforcement in concrete surface beds, slabs, etc.	m2	355		
	<u>PRECAST CONCRETE</u>				
	<u>"LG Green" or equally approved B - C11 exterior window cill fixed to brickwork by Class II mortar</u>				
23	Window cill size 150 x 53mm high	m	30		
	Carried to Collection				R
	Section No. 4 - New Works Concrete, Formwork & Reinforcement				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 4 - New Works

Bill No 2

Concrete, Formwork & Reinforcement

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

123

124

125

126

127

Carried Forward to Summary of Section No. 4

R

Section No. 4 - New Works
Concrete, Formwork & Reinforcement

KZN DEPARTMENT OF HEALTH

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 4: NEW LINKS</u></p> <p><u>BILL NO. 3</u></p> <p><u>MASONRY</u></p> <p><u>PREAMBLES</u></p> <p>Tenderers are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.118 for CPAP purposes</p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><u>Hollow walls, etc.</u></p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with approved cement and sand mixture and sealed with two coats "Brickseal" bitumen emulsion waterproofing coating</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p>				
	Carried to Collection				R
	Section No. 4 - New Works Masonry				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.</p> <p><u>Samples</u></p> <p>Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of six units. Samples of building units to be used in walls described as "load bearing" shall consist of thirty units from every thirty thousand units delivered to site</p>				
	<p><u>FOUNDATIONS</u></p> <p><u>Brickwork of NFX bricks (14MPa nominal compressive strength) in Class I mortar</u></p>				
1	Half brick walls	m2	50		
2	One brick walls	m2	154		
	<p><u>SUPERSTRUCTURE</u></p> <p><u>Brickwork of NFP bricks (14MPa nominal compressive strength) in class II mortar</u></p>				
3	Half brick walls in beam filling	m2	15		
4	Half brick walls	m2	881		
5	One brick walls	m2	1 167		
	<p><u>BRICKWORK SUNDRIES</u></p> <p><u>Bagging of 1:3 cement and sand mixture</u></p>				
6	On brick surfaces	m2	126		
	Carried to Collection				R
	Section No. 4 - New Works Masonry				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>Brickwork reinforcement</u>				
7	75mm Wide reinforcement built in horizontally	m	7 224		
8	150mm Wide reinforcement built in horizontally	m	4 373		
	<u>"Fabcon" or equally approved prestressed fabricated lintels</u>				
9	110 x 75mm Lintels in lengths not exceeding 3m	m	459		
	<u>Turning pieces</u>				
10	150mm Wide turning piece to lintels, etc.	m	478		
	<u>Galvanized hoop iron cramps, ties, etc.</u>				
11	30 x 1.6mm Roof tie 1.5m long with one end fixed to timber and other end built into brickwork	No	83		
	<u>FACE BRICKWORK</u>				
	<u>"Corobrik Roan Satin" or equally approved face bricks pointed with recessed horizontal and vertical joints</u>				
12	Extra over brickwork for face brickwork in foundations (Provisional)	m2	58		
	<u>"Corobrik Roan Satin" or equally approved face bricks pointed with recessed horizontal and vertical joints</u>				
13	Extra over brickwork for face brickwork externally	m2	68		
14	Extra over brickwork for brick-on-edge header course lintel	m	23		
15	Extra over brickwork for brick-on-edge sill set sloping and slightly projecting	m	23		
	Carried to Collection				R
	Section No. 4 - New Works Masonry				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>NUTEC-CEMENT WINDOW SILLS</u>				
	<u>"Everite Nutec" or equally approved window sills in single lengths not exceeding 3.6m, bedded in class I mortar including fixing lugs screwed to underside with self tapping screws</u>				
16	150 x 15mm Wide sills set flat and slightly projecting	m	67		
	Carried to Collection				R
	Section No. 4 - New Works Masonry				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 4 - New Works

Bill No 3

Masonry

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

129

130

131

132

Carried Forward to Summary of Section No. 4

R

Section No. 4 - New Works
Masonry

KZN DEPARTMENT OF HEALTH

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO. 4: NEW LINKS</u>				
	<u>BILL NO. 4</u>				
	<u>WATERPROOFING</u>				
	<u>PREAMBLES</u>				
	Tenderers are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.120 for CPAP purposes				
	<u>Waterproofing</u>				
	Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets, etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs				
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
	<u>One layer of 375 micron Consol Plastics Brikgrip DPC embossed damp proof course</u>				
1	In walls	m2	60		
	<u>One layer of 250 micron Consol Plastics Gunplas USB Green Waterproof sheeting sealed at laps with Gunplas Pressure Sensitive Tape</u>				
2	Under surface beds	m2	328		
	Carried to Collection				R
	Section No. 4 - New Works Waterproofing				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>Two coats "ABE Brixéal" or equally approved bitumen emulsion waterproofing coating</u>				
3	On bagged brick walls	m2	126		
	<u>One primer coat and one slurry coat "Semflex" or equally approved coating</u>				
4	On shower floors and walls	m2	163		
	<u>JOINT SEALANTS, ETC.</u>				
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc.</u>				
5	10 x 10mm In saw cut joints in floors	m	95		
6	10 x 10mm In vertical expansion joints including raking out expansion joint filler as necessary	m	732		
	<u>Approved silicone pointing:</u>				
7	Between aluminium windows / doors and walls	m	369		
	Carried to Collection				R
	Section No. 4 - New Works Waterproofing				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 4 - New Works

Bill No 4

Waterproofing

COLLECTION

Total Brought Forward from Page No.

**Page
No**

134

135

Amount

Carried Forward to Summary of Section No. 4

Section No. 4 - New Works
Waterproofing

KZN DEPARTMENT OF HEALTH

R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO. 4: NEW LINKS</u>				
	<u>BILL NO. 5</u>				
	<u>ROOF COVERINGS</u>				
	<u>PREAMBLES</u>				
	Tenderers are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.124 for CPAP purposes				
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
	<u>0.58mm Thick "Klip-Tite Z200" with Chromadek® Charcoal Grey finish topcoat and Pebble Grey backing coat roof sheeting or equally approved galvanised roof sheeting in strict accordance with manufacturers specification by a GRS approved contractor</u>				
1	Roof covering with pitch not exceeding 25 degrees	m2	286		
	<u>0.58mm Thick "Klip-Tite Z200" with Chromadek® Charcoal Grey finish topcoat and Pebble Grey backing coat ridge cap including ridge closer or equally approved galvanised ridge capping in strict accordance with architects drawings and manufacturers specification by a GRS approved contractor</u>				
2	Close fitting adjustable ridge capping	m	54		
3	Counter flashing 70mm girth	m	54		
	Carried to Collection				R
	Section No. 4 - New Works Roof Coverings				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>"Sondor" or other approved corrugated polycloser</u>				
4	Eaves fillers	m	40		
	<u>ROOF INSULATION</u>				
	<u>"Sisalation FR430" or equally approved heavy industrial grade aluminium foil based insulation</u>				
5	Insulation laid taut over timber rafters at approximately 1260mm centres and fixed concurrent with tiling battens, purlins, etc. including sag wires spaced approximately 275mm apart	m2	286		
	Carried to Collection				R
	Section No. 4 - New Works Roof Coverings				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 4 - New Works

Bill No 5

Roof Coverings

COLLECTION

Total Brought Forward from Page No.

**Page
No**

137

138

Amount

Carried Forward to Summary of Section No. 4

Section No. 4 - New Works
Roof Coverings

KZN DEPARTMENT OF HEALTH

R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO. 4: NEW LINKS</u>				
	<u>BILL NO. 6</u>				
	<u>CARPENTRY AND JOINERY</u>				
	<u>PREAMBLES</u>				
	Tenderer's are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.126 for CPAP purposes				
	<u>ROOFS, ETC.</u>				
	<u>Design, fabrication, supply and installation of the Roof Structure Construction. The Timber Roof Construction Sub-Contractor shall provide all materials (such as nails, ties, trusses, rafters, bracing, painting of exposed timbers, purlins, etc), equipment, labour, services and Engineer's Certificate necessary for the complete and efficient operation of the Installation, all in strict accordance to the Engineer's approval</u>				
1	Roof area measured flat on plan	m2	285		
	<u>Sawn Softwood</u>				
2	38 x 114mm Wall plates	m	62		
	<u>EAVES, VERGES, ETC.</u>				
	Carried to Collection				R
	Section No. 4 - New Works Carpentry & Joinery				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>"Everite Nutec" or equally approved fascia boards or equal approved to match existing</u>				
3	225 x 12mm Nutec Fascias and barge boards including jointing strips	m	54		
	<u>DOORS, ETC.</u>				
	<u>Solid core doors hung to steel frame</u>				
4	44mm Thick door, size 813 x 2032mm high, flush panel solid core door with commercial veneer, including 400 x 500mm high natural anodised aluminium louvres (Type B)	No	6		
5	44mm Thick door, size 813 x 2032mm high, flush panel solid core door with commercial veneer, including 813 x 305mm high fanlight (Type C)	No	54		
6	44mm Thick door, size 813 x 2032mm high, flush panel solid core door with commercial veneer, including 50mm undercut (Type E)	No	6		
	<u>FIRE DOORS, ETC.</u>				
	<u>Solid core flush Class B 2hours fire rated doors hung to steel frame:</u>				
7	44mm Thick door, size 1100 x 2100mm high, flush panel solid core door with commercial veneer (Type D)	No	12		
	Carried to Collection				R
	Section No. 4 - New Works Carpentry & Joinery				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>JOINERY INSTALLATION</u>				
	NOTE: The following fittings have been measured as complete units i.e the components of the units have not been separately measured. The description therefore of such units shall be deemed to include all components, assembling, housing, notching, gluing, blocking, planting on and screwing with countersunk screws, edge strips, cut out for sinks, decorative plastic finish, glass, ironmongery, metalwork, wall mounting brackets, paint or varnish finishes, etc				
	Tenderer' must refer to the architect's Joinery drawings and referred to in the items in order to understand the full requirements and descriptions of the works				
	<u>MERANTI SLATTED BENCHES</u>				
8	Meranti slatted benches 355mm wide with 38 x 38 x 1.6mm floor square tubing including 4 x 70 x 32mm meranti slats (meranti sanded and sealed with edges rounded). Finish and colour of frame and legs : Electro plated epoxy coated in grey with base plates for floor fixing including bolts, as per the architect's drawings and specification complete (Drawing: ARCH-BEN02)	m	7		
	<u>FITTINGS</u>				
9	Floor cupboard unit size 3035 x 600 x 900mm high in white melamine with 30mm Rustenburg granite tops, all joinery fixtures to be manufactured with 18mm moisture resistant V313 melamine board, 2mm edging including doors, bar handles, hinges and all necessary ironmongery complete as per architect's detail drawing and specification. (Drawing: ARCH-KC02)	No	6		
10	Wall mounted cupboard unit size 3665 x 300 x 1160mm high in white melamine with all joinery fixtures to be manufactured with 18mm moisture resistant V313 melamine board, 2mm edging including doors, bar handles, hinges and all necessary ironmongery complete as per architect's detail drawing and specification. (Drawing: ARCH-KC02)	No	6		
	Carried to Collection				R
	Section No. 4 - New Works Carpentry & Joinery				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
11	Built-in cupboard unit size 1500 x 550 x 2560mm high in melamine with 2mm edging including doors, bar handles, hinges, oval ribbed aluminium extrusion coat rail size 35 x 20mm and all necessary ironmongery complete as per architect's detail drawing and specification. (Drawing: ARCH-BIC03)	No	9		
12	Built-in cupboard unit size 1200 x 550 x 2560mm high in melamine with 2mm edging including doors, bar handles, hinges, oval ribbed aluminium extrusion coat rail size 35 x 20mm and all necessary ironmongery complete as per architect's detail drawing and specification. (Drawing: ARCH-BIC04)	No	36		
13	Built-in cupboard unit size 2400 x 550 x 2560mm high in melamine with 2mm edging including doors, bar handles, hinges, oval ribbed aluminium extrusion coat rail size 35 x 20mm and all necessary ironmongery complete as per architect's detail drawing and specification. (Drawing: ARCH-BIC05)	No	3		
14	Built-in cupboard unit size 1200 x 550 x 2560mm high in melamine with 2mm edging including doors, bar handles, hinges, oval ribbed aluminium extrusion coat rail size 35 x 20mm and all necessary ironmongery complete as per architect's detail drawing and specification. (Drawing: ARCH-BIC06)	No	9		
15	20mm Thick Rustenburg granite vanity unit size 1900 x 600mm wide with 300mm downstand and 150mm splashback, cut out to fit vanity basins with fixing brackets complete as per architect's detail drawing and specification. (Drawing: ARCH-DA02)	No	6		
Carried to Collection					
				R	
Section No. 4 - New Works Carpentry & Joinery					
KZN DEPARTMENT OF HEALTH					

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 4 - New Works

Bill No 6

Carpentry & Joinery

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

140

141

142

143

Carried Forward to Summary of Section No. 4

R

Section No. 4 - New Works
Carpentry & Joinery

KZN DEPARTMENT OF HEALTH

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 4: NEW LINKS</u></p> <p><u>BILL NO. 7</u></p> <p><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>PREAMBLES</u></p> <p>Tenderer's are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.</p>				
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.129 Ceilings, 138 Partitioning Systems for CPAP purposes</p> <p><u>Descriptions</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere</p> <p><u>NAILED UP CEILINGS</u></p> <p><u>6mm "Everite Nutec" or equally approved fibre-cement boards with 4mm H-profile PVC jointing strip over joints</u></p>				
1	Ceilings screwed to underside truss tie beam	m2	17		
	Carried to Collection				R
	Section No. 4 - New Works Ceilings, Partitions & Access Flooring				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>SUSPENDED CEILINGS</u>				
	<u>9mm "JUMBO Plasterboard" or equally approved flush concealed suspended ceiling consisting of 3600mm Jumbo main tees at 1200mm centres in one direction and 1200mm Jumbo cross tees at 400mm centres perpendicular to main tees. Main tees to be suspended at 1200mm centres by means of 25 x 25 x 0.6mm galvanised steel angle, hangers fixed to bulb of main tee with wafer tek screws/steel pop rivets and to slab with 6 x 30mm express nails and washers. Fit 9mm Jumbo Plasterboard to the underside of grid system with tapered edge of board facing down with 25mm drywall screws at 150mm centres. Apply 50mm JUMBO tape to all joints and finish the entire ceiling with 3-5mm JUMBO Skimming Plaster (elsewhere measured) all in strict accordance with manufacturer's instructions</u>				
2	Ceilings suspended not exceeding 1m below roof trusses / concrete soffits.	m2	306		
3	Extra over ceiling for a top hung access panel size 580 x 580mm	No	4		
	<u>12mm "JUMBO MR Plasterboard" or equally approved flush concealed suspended ceiling consisting of 3600mm Jumbo main tees at 1200mm centres in one direction and 1200mm Jumbo cross tees at 500mm centres perpendicular to main tees. Main tees to be suspended at 1200mm centres by means of 25 x 25 x 0.6mm galvanised steel angle, hangers fixed to bulb of main tee with wafer tek screws/steel pop rivets and to slab with 6 x 30mm express nails and washers. Fit 12mm Jumbo MR Plasterboard to the underside of grid system with tapered edge of board facing down with 25mm drywall screws at 150mm centres. Apply 50mm JUMBO tape to all joints and finish the entire ceiling with 3-5mm JUMBO Skimming Plaster (elsewhere measured) all in strict accordance with manufacturer's instructions</u>				
4	Ceilings suspended not exceeding 1m below roof trusses / concrete soffits.	m2	181		
	Carried to Collection				R
	Section No. 4 - New Works Ceilings, Partitions & Access Flooring				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
5	Extra over ceiling for a top hung access panel size 580 x 580mm.	No	4		
	<u>CORNICES, MOULDINGS, ETC.</u>				
	<u>"Gyproc RhinoArt Cove" or equally approved gypsum cornice fixed to wall using "Gyproc RhinoBed"</u>				
6	75mm Coved cornice	m	773		
	Carried to Collection				R
	Section No. 4 - New Works Ceilings, Partitions & Access Flooring				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 4 - New Works

Bill No 7

Ceilings, Partitions & Access Flooring

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

145

146

147

Carried Forward to Summary of Section No. 4

R

Section No. 4 - New Works
Ceilings, Partitions & Access Flooring

KZN DEPARTMENT OF HEALTH

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO. 4: NEW LINKS</u>				
	<u>BILL NO. 8</u>				
	<u>IRONMONGERY</u>				
	<u>PREAMBLES</u>				
	Tenderer' are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.132 for CPAP purposes				
	<u>Finishes to ironmongery</u>				
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded				
	<u>HINGES, BOLTS, ETC.</u>				
	<u>"Union" or equally approved</u>				
1	8352-100SN Aluminium Reflex Hinge 100 mm Anodised	Pairs	138.0		
2	8352-100SS201 2BB 102X76X3MM HINGE SS CE	Pairs	120.0		
3	2X18SCMKD Double Cylinder Profile MKD SC	No	50		
4	2X19SCMKD Knob Cylinder Profile MKD SC	No	51		
	Carried to Collection				R
	Section No. 4 - New Works Ironmongery				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
5	2X20SCMKD Single Cylinder Profile MKD SC	No	3		
6	CZ80941SCR Indicator Bolt SC Plated IMP	Pairs	6.0		
<u>CATCHES, CABIN HOOKS, ETC.</u>					
<u>"Union" or equally approved</u>					
7	AL8722AS Coat Hook Rubber Tipped	No	6		
8	PZ-05SS Escutcheon On Rose Profile	Pairs	20.0		
<u>LOCKS</u>					
<u>"Union" or equally approved</u>					
9	L-22315-76SS 315 Door Lock - Stainless Steel	No	84		
10	QD35X85MMSWSS Swing Bolt Dead Lock- 35mm Backset- - Stainless Steel	No	20		
<u>HANDLES</u>					
<u>"Union" or equally approved</u>					
11	AL6D66-05AS Dove On Plate Profile	Pairs	57.0		
12	AL5512-300BBAS 300mm Pull Handle BTB	Pairs	64.0		
13	AL5D66L-05AS Dove Pull Handle On Backplate LH Profile - 152 X 152mm Plate	No	27		
<u>PUSH PLATES AND KICKING PLATES</u>					
<u>"Union" or equally approved</u>					
14	AL5066R-05AS Push Plate RH Profile - 152 X 152mm	No	27		
15	AL5089-250W Kick Plate 250X800X2mm Works	No	57		
Carried to Collection					R
Section No. 4 - New Works Ironmongery					
KZN DEPARTMENT OF HEALTH					

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>DOOR CLOSERS</u>				
	<u>"ASSA ABLOY" or equally approved</u>				
16	DC200 R&P CLOSER EN 2-4 SIL	No	27		
17	DC500HO CAM ACTION CLOSER EN1-4 HO SIL	No	20		
18	DCA120-40 Straight Mounting Plate For ASSA ABLOY Door Closers	No	23		
19	DCA154-EV1 Parallel Arm Bracket	No	20		
	<u>LETTERS, NAMEPLATES, ETC.</u>				
	<u>SIGNAGE</u>				
	<u>"Union" or equally approved</u>				
20	AL5066-06ASE12 Male & Female Sign	No	3		
21	AL5066-06ASE17 Cleaner Mop & Bucket Sign	No	6		
22	AL5066-06ASE16 Escape Route Sign RH	No	18		
	Carried to Collection				R
	Section No. 4 - New Works Ironmongery				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>PHOTOLUMINESCENT SIGNS</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	Signs are to comply with SANS 1186-1 to 5 and to be to the approval of the local authority. Signs are to have anodised aluminium frames				
	Prices are to include for fixing by approved methods. The use of double sided tape will not be permitted. Surface mounted signs are to be concealed fixed and ceiling mounted signs are to be hung with 2mm diameter stainless steel cables				
	Single sided ceiling mounted signs are to have 2mm satin chrome anodised aluminium back panels				
	Samples, specifications, literature, etc of materials and fabricated articles the tenderer proposes to use shall be submitted with the tender				
	A ten year guarantee on materials and workmanship shall be submitted by the successful tenderer.				
	<u>Wall mounted photoluminescent statutory fire signs</u>				
23	300 x 150mm Sign with EXIT sign	No	6		
	<u>Ceiling mounted photoluminescent statutory fire signs</u>				
24	150 x 458mm Sign with three pictograms	No	10		
	<u>CURTAIN TRACKS</u>				
	<u>"Leroy Merlin" or equally approved</u>				
25	SKU81425149 Chrome, straight extensible shower curtain rod with stopped ends, etc, plugged to walls	No	12		
	<u>Poly classic shower curtain including hooks supplied by "Builders" or equally approved</u>				
26	Polypropylene shower curtain size 1500 x 2000mm high to suite shower curtain rail / rod, complete	No	12		
	Carried to Collection				R
	Section No. 4 - New Works Ironmongery				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>SUNDRIES</u>				
	<u>"Union" or equally approved</u>				
27	9002AS Aluminium Door Stop AS	No	84		
28	RH7024 Patent Fixing Screw - Nickel Plated	No	222		
	<u>BATHROOM FITTINGS</u>				
	<u>"Franke" or equally approved</u>				
29	"Chronos BS646" (Code: 2120073) Satin finished stainless steel single soap dish, size 125 x 90 x 22mm high, with a deep drawn rib tray with holes, plugged and screwed to the wall with stainless steel screws, complete	No	12		
30	"BHM8P" (Code: 2120090) Polished stainless-steel robe hook, plugged and screwed to the wall with stainless steel screws, complete	No	24		
31	"Rodan RODX600" (Code: 2120099), 0,8mm Thick satin finished stainless steel paper towel dispenser size 275 x 112 x 355mm high with a capacity of 500-800 towels, inspection windows on the side and "Franke" standard key, plugged and screwed to the wall with stainless steel screws, complete	No	6		
32	"Rodan RODX605" (Code: 2120097) 0,8mm Thick satin finished stainless steel waste bin size 355 x 168 x 460mm deep wall mounted, complete	No	6		
33	"Rodan RODX619" (Code: 2120095), 0,8mm Thick satin finished stainless steel soap dispenser, size 200 x 85 x 140mm high plugged and screwed to the wall with stainless steel screws, complete	No	12		
34	"Rodan RODX672" (Code: 2120101), 0,8mm Thick satin finished stainless steel double toilet roll holder with spindle system, size 144 x 138 x 301mm high for 2 rolls maximum 120mm diameter with cylinder lock with standard "Franke" key, plugged and screwed to the wall with stainless steel screws, complete	No	12		
	Carried to Collection				R
	Section No. 4 - New Works Ironmongery				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 4 - New Works

Bill No 8

Ironmongery

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

149

150

151

152

153

Carried Forward to Summary of Section No. 4

R

Section No. 4 - New Works
Ironmongery

KZN DEPARTMENT OF HEALTH

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 4: NEW LINKS</u></p> <p><u>BILL NO. 9</u></p> <p><u>METALWORK</u></p> <p><u>PREAMBLES</u></p> <p>Tenderer's are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.</p>				
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.136 for CPAP purposes</p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Metalwork described as holed for bolt(s) shall be deemed to exclude the bolts unless otherwise described</p> <p><u>GALVANIZED STEEL DOOR FRAMES</u></p> <p><u>1.2mm Double rebated frames suitable for half brick walls</u></p>				
1	Door 813 x 2032 mm high	No	6		
	Carried to Collection				R
	Section No. 4 - New Works Metalwork				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>1.2mm Double rebated frames suitable for one brick walls</u>				
2	Single Door size 813 x 2032 mm high	No	6		
3	Single Door size 813 x 2032mm high, including 813 x 305mm high fanlight	No	54		
4	Single door size 1100 x 2100mm high	No	12		
	<u>ALUMINIUM WINDOWS, DOORS, ETC.</u>				
	<u>Black anodised aluminium windows glazed with 6.5mm thick clear toughened safety low E film and plugged to brickwork or concrete as per architect's window schedule</u>				
5	Window size 800 x 1500mm high (Type M)	No	36		
6	Window size 800 x 1800mm high (Type N)	No	6		
7	Window size 1200 x 1500mm high (Type C)	No	48		
	<u>Black anodised aluminium windows glazed with 6.5mm thick obscure / white toughened safety low E film and plugged to brickwork or concrete as per architect's window schedule</u>				
8	Window size 480 x 1200mm high (Type D)	No	12		
	<u>Black anodised aluminium door glazed with 6.5mm thick clear toughened safety low E film and plugged to brickwork or concrete as per architect's window schedule</u>				
9	Double door size 1280 x 2100 high including aluminium door frame as supplied by manufacturer (Type A)	No	12		
	Carried to Collection				R
	Section No. 4 - New Works Metalwork				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No	Description	Unit	Quantity	Rate	Amount
	<u>Black anodised aluminium shopfront glazed with 6.5mm thick clear toughened safety low E film and plugged to brickwork or concrete as per architect's window schedule</u>				
10	Shopfront complete with a double door size 1580 x 2400mm high including aluminium door frame and 2no. of window size 900 x 1200mm high as supplied by manufacturer (Type H)	No	8		
	<u>GALVANISED MILD STEEL BURGLAR BARS, ETC.</u>				
	<u>25 x 5mm Angle section frame with 12mm solid intermediates at equal centres fixed to reveal by M10 rawbolts. Frame to be hot dipped galvanised after manufacture as per architects specification</u>				
11	To fit window size 480 x 1200mm high	No	12		
12	To fit window size 800 x 1500mm high	No	36		
13	To fit window size 800 x 1800mm high	No	2		
14	To fit window size 1200 x 1500mm high	No	19		
	<u>STAINLESS STEEL BALUSTRADE</u>				
	<u>S/S balustrades including all necessary stanchions, closed ends, ramps, cleats, bolts, welding, picking, complete as per Architect's instruction and approval</u>				
15	1000mm High straight handrail	m	31		
Carried to Collection					R
Section No. 4 - New Works Metalwork					
KZN DEPARTMENT OF HEALTH					

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 4 - New Works

Bill No 9

Metalwork

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

155

156

157

Carried Forward to Summary of Section No. 4

Section No. 4 - New Works
Metalwork

R

KZN DEPARTMENT OF HEALTH

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO. 4: NEW LINKS</u>				
	<u>BILL NO. 10</u>				
	<u>PLASTERING</u>				
	<u>PREAMBLES</u>				
	Tenderer' are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.142 for CPAP purposes				
	<u>SCREEDS</u>				
	<u>Screeds on concrete</u>				
1	25mm Thick on floors and landings	m2	1 031		
2	Average 50mm thick on floors to falls and currents	m2	15		
	<u>INTERNAL PLASTER</u>				
	<u>Cement plaster on brickwork</u>				
3	On walls	m2	3 722		
4	On narrow widths	m2	49		
	<u>5mm Thick JUMBO skimming plaster</u>				
5	On plasterboards	m2	488		
	Carried to Collection				R
	Section No. 4 - New Works Plastering				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 4 - New Works

Bill No 10

Plastering

COLLECTION

Total Brought Forward from Page No.

**Page
No**

159

160

Amount

Carried Forward to Summary of Section No. 4

Section No. 4 - New Works
Plastering

R

KZN DEPARTMENT OF HEALTH

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 4: NEW LINKS</u></p> <p><u>BILL NO. 11</u></p> <p><u>TILING</u></p> <p><u>PREAMBLES</u></p> <p>Tenderer' are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.144 for CPAP purposes</p>				
1	<p><u>WALL TILING</u></p> <p><u>430 x 430mm Ceramic tiles fixed with adhesive to bedding (bedding elsewhere) including Tal Gold 6 rapid setting, joints pointed with Tal Fine Anti-Bacteria / Anti Fungal grout</u></p> <p>On walls</p> <p>1. Materials (nett area) - PC amount of R 350.00/m²</p> <p>2. Proportion of rate adjustable related to PC amount (e.g: waste, etc.) - R</p> <p>3. Proportion of rate not adjustable (e.g: labour, etc.) - R</p> <p>TOTAL (to rate column) - R</p>	m2	523		
	Carried to Collection				R
	Section No. 4 - New Works Tiling				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No	Unit	Quantity	Rate	Amount
2	m2	4		
On narrow widths				
1. Materials (nett area) - PC amount of R 380.00/m ²				
2. Proportion of rate adjustable related to PC amount (e.g: waste, etc.) - R				
3. Proportion of rate not adjustable (e.g: labour, etc.) - R				
TOTAL (to rate column) - R				
3	m2	20		
On splashbacks				
1. Materials (nett area) - PC amount of R 380.00/m ²				
2. Proportion of rate adjustable related to PC amount (e.g: waste, etc.) - R				
3. Proportion of rate not adjustable (e.g: labour, etc.) - R				
TOTAL (to rate column) - R				
<u>FLOOR TILING</u>				
<u>600 x 600mm Porcelain floor tiles fixed with adhesive to bedding (bedding elsewhere) including Tal Gold 6 rapid setting, joints pointed with Tal Fine Anti-Bacteria / Anti Fungal grout</u>				
4	m2	1 031		
On floors and landings				
1. Materials (nett area) - PC amount of R 480.00/m ²				
2. Proportion of rate adjustable related to PC amount (e.g: waste, etc.) - R				
3. Proportion of rate not adjustable (e.g: labour, etc.) - R				
TOTAL (to rate column) - R				
Carried to Collection				
Section No. 4 - New Works Tiling			R	
KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
5	100mm High tile skirtings 1. Materials (nett area) - PC amount of R 480.00/m ² 2. Proportion of rate adjustable related to PC amount (e.g: waste, etc.) - R 3. Proportion of rate not adjustable (e.g: labour, etc.) - R TOTAL (to rate column) - R <u>Mosaic tiles fixed with class II mortar to bedding (bedding elsewhere) including Tal Gold 6 rapid setting, joints pointed with Tal Fine Anti-Bacteria / Anti Fungal grout</u>	m	1 441		
6	On shower floors to falls 1. Materials (nett area) - PC amount of R 500.00/m ² 2. Proportion of rate adjustable related to PC amount (e.g: waste, etc.) - R 3. Proportion of rate not adjustable (e.g: labour, etc.) - R TOTAL (to rate column) - R <u>CORNER PROTECTORS, DIVIDING STRIPS, ETC.</u> <u>"Kirk" or equally approved</u>	m2	15		
7	"M-Trim ASE150.NA" 15mm High natural anodised aluminium trim bedded in tiles	m	82		
Carried to Collection					R
Section No. 4 - New Works Tiling					
KZN DEPARTMENT OF HEALTH					

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 4 - New Works

Bill No 11

Tiling

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

162

163

164

Carried Forward to Summary of Section No. 4

R

Section No. 4 - New Works
Tiling

KZN DEPARTMENT OF HEALTH

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 4: NEW LINKS</u></p> <p><u>BILL NO. 12</u></p> <p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>Tenderer's are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.146 Drainage, 148 Plumbing for CPAP purposes</p> <p><u>"Polycop" polypropylene pipes</u></p> <p>Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated.</p> <p>Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions.</p> <p>All pipe diameters are nominal external.</p> <p><u>"Polylink" polypropylene pipes</u></p> <p>Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron "Supraclamp" running joints.</p> <p>Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured.</p>				
	Carried to Collection				R
	Section No. 4 - New Works Plumbing and Drainage				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p>Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double Z joint couplers.</p> <p>Branch tees shall include flanged and bolted joints to "Polycop" branch pipes in addition and for brass compression male iron to copper straight couplers.</p> <p>Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and reducers shall be of sufficient overall length to accommodate same.</p> <p>All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions.</p> <p>All pipe diameters are nominal external.</p> <p><u>uPVC pipes and fittings</u></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings.</p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed.</p> <p><u>uPVC pressure pipes and fittings</u></p> <p>Pipes for water supply shall be of the class stated.</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings.</p> <p>Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints.</p>				
	Carried to Collection				R
	Section No. 4 - New Works Plumbing and Drainage				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>Copper pipes</u></p> <p>Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.</p> <p><u>Fixing of pipes</u></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level.</p> <p><u>Reducing fittings</u></p> <p>Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.</p> <p><u>Wire gratings</u></p> <p>Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings.</p> <p><u>Excavations</u></p> <p>No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling.</p> <p>"Soft rock" and "hard rock" shall be as defined in "Earthworks".</p>				
	Carried to Collection				R
	Section No. 4 - New Works Plumbing and Drainage				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>Laying, backfilling, bedding, etc., of pipes</u></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.</p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:</p> <p>SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage</p> <p>Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches)</p> <p>Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes).</p> <p>Unless otherwise described bedding of rigid pipes shall be class B bedding.</p> <p><u>Rates</u></p> <p>Rates for all pipe trenches shall include for bedding and backfilling in accordance with the "SABS 1200 Clauses" referred to above, and shall include for the provision of imported selected and granular material as applicable as well as for the disposal of surplus material off site to a dumping site to be found by the Contractor.</p> <p><u>General</u></p> <p>Refer to all Architect's and Civil Engineer's drainage specifications.</p>				
	Carried to Collection				R
	Section No. 4 - New Works Plumbing and Drainage				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>RAINWATER DISPOSAL</u>				
	<u>"Watertite" or equally approved pre painted aluminium</u>				
1	150 x 100mm Seamless eaves gutters	m	40		
2	Extra over seamless eaves gutter for angles.	No	4		
3	Extra over seamless eaves gutter for outlet for 100 x 75mm rainwater downpipe	No	4		
4	100 x 75mm Rainwater downpipe	m	77		
5	Extra over rainwater pipe for bend	No	8		
6	Extra over rainwater pipe for shoe	No	4		
	<u>Pluvia downpipes encased in concrete columns</u>				
7	160mm PVC rainwater pipe in column, etc.	m	35		
8	"Fullbore" rainwater outlets cast into concrete slabs to receive downpipes	No	12		
	<u>SANITARY FITTINGS</u>				
9	Vaal ENTICE (product code 439600) or equally approved vitreous china 90° outlet back inlet closed rim wall-hung toilet pan, with quality thermoset soft-close seat and fixed to wall with cradle bracket	No	12		
10	GROHE BAU (Product Code 39422000) or equally approved vitreous china Drop in wash hand basin size 560 x 400 x 200mm, complete with overflow and one tap hole set on vanity unit (elsewhere measured)	No	12		
	Carried to Collection				R
	Section No. 4 - New Works Plumbing and Drainage				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>STAINLESS STEEL</u></p> <p>The following stainless steel fittings are to be Franke Kitchen Systems (Pty) Ltd., Plumbsteel or other equally approved.</p> <p>The underside of all sink bowls, sinks and drainers are to be sound deadened by the application of an approved guaranteed vermin proof sound deadening emulsion or fibreglass sheeting.</p> <p>The underside of all sink bowls, sinks and drainers are to be sound deadened by the application of an approved guaranteed vermin proof sound deadening emulsion or fibreglass sheeting.</p> <p>All exposed surfaces of stainless steel fittings are to be buffed to an even satin finish all over.</p> <p>Sinks, bowls and basins are to be pressed out of single sheets with complete drainage to outlets and each bowl is to be fitted with integral built-in overflow and chromium plated brass grating and unless otherwise described, 40mm recessed waste outlet and union with chromium plated brass grating, rubber plug and chromium plated brass chain and stay.</p> <p>Prices for all stainless steel fittings are to include for the supply and fixing of the fittings as described and for cleaning, washing and leaving in a satisfactory condition at completion.</p> <p>1,2mm Thick A.I.S.I. Grade 304 (18/10) stainless steel:</p>				
11	FRANKE PROJECTLINE Model PLN 611 size 800 x 460 polished stainless steel single end bowl drop in sink with 1no 343 x 410 x 153mm deep bowls fitted onto worktop (elsewhere measured) and complete with 90mm waste fittings	No	6		
	Carried to Collection				R
	Section No. 4 - New Works Plumbing and Drainage				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>SANITARY PLUMBING</u>				
	<u>Unplasticised polyvinyl chloride (UPVC) pipes including couplings in the running length and fixing to walls, soffits or in chases:</u>				
12	50mm Pipe fixed to wall, soffits, etc.	m	105		
13	110mm Pipe, ditto	m	114		
14	50mm PVC pipe laid in floor under concrete slab not exceeding 500mm deep	m	20		
15	110mm PVC pipe laid in floor under concrete slab not exceeding 500mm deep	m	10		
	<u>Extra on UPVC piping for the following fittings:</u>				
16	50mm BSP adaptors	No	24		
17	50mm Stop end	No	6		
18	50mm Bend	No	93		
19	110mm Bend	No	10		
20	50mm Junction	No	8		
21	110mm Junction	No	4		
22	110mm Reducing junction	No	8		
23	110mm Straight pan collar	No	12		
24	50mm Inspection eye bend	No	24		
25	110mm Inspection eye bend	No	112		
26	50mm Inspection eye junction	No	4		
27	110mm Inspection eye junction	No	12		
28	110mm Inspection eye reducing junction	No	6		
	Carried to Collection				R
	Section No. 4 - New Works Plumbing and Drainage				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
29	110mm Inspection eye double junction	No	2		
30	110mm Inspection eye double reducing junction	No	6		
31	50mm Vent valve	No	2		
32	110mm Vent valve	No	6		
33	110mm Rodding eye	No	4		
	<u>TESTING</u>				
34	Allow for testing the whole of the sanitary plumbing to the satisfaction of the architect and Local authority. All defective work to removed and made good at the contractors expense and the whole re tested until found satisfactory		Item		
	<u>WASTE , TRAPS , ETC.</u>				
35	32mm chrome plated unslotted waste outlet with 80mm long shank and plug (Product Code: Cobra # 303)	No	12		
36	40mm chrome plated unslotted waste outlet with 80mm long shank and plug (Product Code: Cobra # 311)	No	18		
37	32mm anti theft plug (Product Code: Cobra #309)	No	12		
38	32 x 40mm chrome plated deep seal bottle trap with MI outlet and connected to PVC pipe (Product code: Cobra # 345/50)	No	12		
39	50mm brass shower trap with square grating (Product code: Cobra COB373SQ)	No	12		
40	Single bowl sink trap (Product Code: SPAZIO F1)	No	18		
	<u>BRASS WARE, TAPS, MIXERS, ETC.</u>				
41	Cobra back entry WC, Eco type, front flush access box (Product code KF4.213) complete with vandal proof push button assembly , integral vacuum breaker, and flush pipes with elbow and bung rubber	No	12		
	Carried to Collection				R
	Section No. 4 - New Works Plumbing and Drainage				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
42	Single taphole (Product code: COBRA #296) deck type sink mixer with swivel spout and star pattern handles	No	6		
43	Taryn chrome plated basin metering pillar tap, (Product code, COBRA # KM2-100)	No	24		
44	Under wall stop tap with star pattern handle (Product Code COBRA # 238-15)	No	24		
45	Vandal proof shower rose (Product Code COBRA # KP 2.6)	No	12		
46	Chrome plated angle regulating valve (Product Code COBRA # 832 - 10)	No	36		
47	15mm x 350mm Long braided tap connector	No	36		
Carried to Collection					R
Section No. 4 - New Works Plumbing and Drainage					
KZN DEPARTMENT OF HEALTH					

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 4 - New Works

Bill No 12

Plumbing and Drainage

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

166

167

168

169

170

171

172

173

174

Carried Forward to Summary of Section No. 4

Section No. 4 - New Works
Plumbing and Drainage

KZN DEPARTMENT OF HEALTH

R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO. 4: NEW LINKS</u>				
	<u>BILL NO. 13</u>				
	<u>ELECTRICAL INSTALLATIONS</u>				
	<u>PREAMBLES</u>				
	<u>NOTE: Tenderer' are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.160 Electrical Installation, 162 Electrical Reticulation, for CPAP purposes				
	<u>ELECTRICAL AND ELECTRONICS INSTALLATION</u>				
	<u>ROUTING INFRASTRUCTURE FOR ELECTRICAL AND ELECTRONICS EQUIPMENT</u>				
	<u>Trench (including excavation, compaction, backfill and re-instatement of surface)</u>				
1	450mm wide x 500mm deep	m	155		
	<u>Supply and install PVC Conduit (including all accessories) - recessed</u>				
2	25mm	m	700		
3	Conduit Box - 60mm Round x 25mm deep (4 Way)	No	3		
4	Conduit Box - 60mm Round x 25mm deep (3 Way)	No	23		
5	Conduit Box - 60mm Round x 25mm deep (2 Way)	No	26		
	Carried to Collection				R
	Section No. 4 - New Works Electrical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>Supply and install PVC Conduit (including all accessories) Surface mounted/Mounted on Cable tray</u>				
6	25mm	m	700		
7	Conduit Box - 60mm Round x 25mm deep (4 Way)	No	3		
8	Conduit Box - 60mm Round x 25mm deep (3 Way)	No	23		
9	Conduit Box - 60mm Round x 25mm deep (2 Way)	No	26		
	<u>Supply and install Bosal Conduit (including all accessories) Surface mounted/Mounted on Cable tray</u>				
10	25mm	m	88		
11	Conduit Box - 60mm Round x 25mm deep (4 Way)	No	1		
12	Conduit Box - 60mm Round x 25mm deep (3 Way)	No	6		
13	Conduit Box - 60mm Round x 25mm deep (2 Way)	No	4		
	<u>Supply and install Cable Tray/Wire Mesh (including all accessories) (Equivalentents to be approved by Engineer)</u>				
14	O-Line 304mm wide, 76mm in height, Hot Dip Galvanised (PT76) cable tray or other approved Equivalentent	m	120		
15	O-Line 304mm wide, 76mm in height, Hot Dip Galvanised (PT76) cable tray - Horizontal bend or other approved Equivalentent	No	2		
16	O-Line 304mm wide, 76mm in height, Hot Dip Galvanised (PT76) cable tray - 3 way Tee or other approved Equivalentent	No	2		
17	O-Line 304mm wide, 76mm in height, Hot Dip Galvanised (PT76) cable tray - 4 way or other approved Equivalentent	No	1		
	Carried to Collection				R
	Section No. 4 - New Works Electrical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
18	O-Line 200mm wide (GS50) cable wire mesh, 50mm Height, 50x75mm base aperture, Hot Dip Galvanised, 4mm, Super Zinc fasteners or other approved Equivalent	m	120		
19	O-Line 200mm wide (GS50) cable wire mesh, 50mm Height, 50x75mm base aperture, Hot Dip Galvanised, 4mm, Super Zinc fasteners - External bend or other approved Equivalent	No	2		
20	O-Line 200mm wide (GS50) cable wire mesh, 50mm Height, 50x75mm base aperture, Hot Dip Galvanised, 4mm, Super Zinc fasteners- 3 way Tee or other approved equivalent	m	2		
21	O-Line 200mm wide (GS50) cable wire mesh, 50mm Height, 50x75mm base aperture, Hot Dip Galvanised, 4mm, Super Zinc fasteners- 4 way Tee or other approved equivalent	No	1		
22	Trehaded Rod M10 Hot Dip Galvanised including fasteners and brackets	m	179		
	<u>Supply and install Sleeves / trunking (including all accessories)(Equivalentents to be approved by Engineer)</u>				
23	OL2000 trunking (including covers) or other approved Equivalent	m	25		
24	OL9000 trunking (including covers) or other approved Equivalent	m	25		
25	50mm Sleeve PVC	m	64		
	<u>CABLE INSTALLATION</u>				
	<u>Supply and Install (including all accessories)(Equivalentents to be approved by Engineer)</u>				
26	2.5 mm ² House wire - Live (Brown)	m	1 785		
27	2.5 mm ² House wire - Neutral (Blue)	m	1 785		
	Carried to Collection				R
	Section No. 4 - New Works Electrical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
28	2.5 mm2 House wire - Earth (Green)	m	1 785		
29	3C x 4 mm2 Surfex	m	38		
	<u>Gland and terminate including the supply and install of cable glands (including all accessories)(Equivalents to be approved by Engineer)</u>				
30	25mm PVC Conduit Gland	No	30		
	<u>LIGHTING, SMALL POWER AND ACCESSORIES (Supply & install lighting fixtures including Luminaires fixing brackets and accessories) (Equivalents to be approved by Engineer)</u>				
	<u>Supply & install lighting fixtures including fixing brackets and accessories</u>				
31	LUGO 44W LED - Aluminium Frame, Diffuser, T6063 Anodised Finish, Flicker Free, 90000h (L70B10) , CRI >80, 1.5kV Surge Protection, 1200mm,4000K with Plug set, or approved equivalent (Surface Mounted) -IP65	No	25		
32	LUGO 44W LED - Aluminium Frame, Diffuser, T6063 Anodised Finish, Flicker Free, 90000h (L70B10) , CRI >80, 1.5kV Surge Protection, 1200mm,4000K with Plug set, WITH 2HOUR Battery BACKUP @ 40% Luminance, Maintenance Free, With LED indicator and audible alarm indicating that the batteries need replacement or approved equivalent (Surface Mounted) -IP65	No	7		
33	NASA 24W LED- Housing-PMMA, Flicker Free, 50000h (L90B10) , CRI >80, 1.5kV Surge Protection, 580mm,3000K with Plug set, or approved equivalent (Surface Mounted) -IP65	No	39		
34	NASA 24W LED- Housing-PMMA, Flicker Free, 50000h (L90B10) , CRI >80, 1.5kV Surge Protection, 580mm,3000K with Plug set, WITH 2HOUR Battery BACKUP @ 40% Luminance, Maintenance Free, With LED indicator and audible alarm indicating that the batteries need replacement or approved or equivalent (Surface Mounted) -IP64	No	12		
	Carried to Collection				R
	Section No. 4 - New Works Electrical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
35	NASA 19W LED- Housing-PMMA, Flicker Free, 50000h (L90B10) , CRI >80, 1.5kV Surge Protection, 580mm,4000K with Plug set, WITH 2HOUR Battery BACKUP @ 40% Luminance, Maintenance Free, With LED indicator and audible alarm indicating that the batteries need replacement or approved equivalent (Surface Mounted) -IP64	No	7		
36	ODIN 16W LED- Housing-reinforced polypropylene,Diffuser - UV Stabilized Flicker Free, 50000h (L90B10),1.5kV Surge Protection,4000K with Plug set, or approved equivalent (Surface Mounted) - IP65	No	13		
37	Flood Light 50W LED- Housing-Metal, 6000k, 50 000h, CRI>70 or approved equivalent (Surface Mounted) - IP65 or approved equivalent	No	5		
	<u>Supply and install lighting power infrastructure including fixing brackets and accessories (PVC) (Supply & install lighting fixtures including fixing brackets and accessories) (Equivalents to be approved by Engineer)</u>				
38	Crabtree 10A single lever light switch or other approved equivalent	No	51		
39	Crabtree 10A double lever light switch or other approved equivalent	No	4		
	<u>Supply and install small power outlets including fixing brackets and accessories (PVC) (Supply & install fixtures including fixing brackets and accessories) (Equivalents to be approved by Engineer)</u>				
40	16A, 3 pin, 4x4 Switch Socket + Euro Socket + usb	No	81		
41	16A, 3 pin, 4x4 Double Switch Switch Socket	No	64		
42	5A, 3 pin Socket	No	103		
43	5A Three Phase Isolator (Washing Machine)	No	6		
44	20A Single Phase Isolator	No	2		
	Carried to Collection				R
	Section No. 4 - New Works Electrical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>Supply and install Wall Heaters Install including fixing brackets and accessories</u>				
45	400W Slim Panel Heater or other approved equivalent	No	97		
	<u>Supply and install power skirting including fixing brackets and accessories (GREY) (Equivalents to be approved by Engineer)</u>				
46	2 Compartment Aluminium Power Skirting complete with covers	m	5		
47	2 Compartment Aluminium Power Skirting internal bends	No	2		
48	2 Compartment Power Skirting end caps	No	2		
49	Single switched socket 16A	No	4		
	<u>CCTV System-Supply and Install including fixing brackets and accessories (Equivalents to be approved by Engineer)</u>				
50	IP 2MP Dome Camera IR30m WDR 2.7-13.5mm IP67 (ICDA326-6)	No	10		
51	Dome Water-proof Wall Mount Bracket (BRDA101-1)	No	10		
52	IP 4MP WDR IR 60m 2.7-13.5mm Motorized Bullet (ICDA227-2)	No	2		
53	Aluminium Water-proof Junction Box (BRDA107)	No	2		
54	UTEPO 8 Port 10/100 PoE + 1 10/100 TP Uplink (NW110-2)	No	1		
55	11 Port Weatherproof PoE Switch (NW100-6)	No	1		
56	UTEPO 8 Port Gigabit (12VDC Input) Switch (NW101-3)	No	1		
57	18U 800mm Internal 950mm High Floor standing (CA100-1)	No	1		
58	Front Mount Tray 450mm (CA109)	No	1		
	Carried to Collection				R
	Section No. 4 - New Works Electrical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
59	Cable - CAT6E UTP (CB70-1)	No	874		
60	RJ45 Boots and Crimps	No	1		
61	Fittings and Fixtures (PVC 25mm)	No	1		
62	HDMI Cable 5m (LGHDMI)	No	1		
63	Block Plan	No	1		
64	Product Manual	No	3		
	<u>Alarm System- Supply and Install including fixing brackets and accessories (Equivalents to be approved by Engineer)</u>				
65	Sherlo Repeater + Battery Back-Up Power Supply	No	3		
66	12v Battery 7.2amp	No	3		
67	Sherlo Panic Button Remote - C/W Pendant Chain or Wall Mount	No	39		
68	MIMIC BASE + POWER SUPPLY	No	1		
69	Cables - Power etc	No	1		
70	Block Plan	No	1		
71	Product Manual	No	1		
	<u>Smoke Detection (supply and Install including fixing brackets and accessories (Equivalents to be approved by Engineer)</u>				
72	Minidisc Remote Indicator - Void Detectors (AI671)	No	7		
73	Ziton Optical sensor Polar White (ZP730-2P)	No	61		
74	Ziton Surface mounting sensor base Polar White (ZP7-SB1-P)	No	61		
75	Ziton Heat sensor Polar White (ZP720-3P)	No	1		
	Carried to Collection				R
	Section No. 4 - New Works Electrical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
76	White Pluggable base Polar White (SPB-2P)	No	4		
77	Omnidirectional sounder & indicator, white (102 dBA)* Polar White (ZP755HAV-2P)	No	4		
78	Ziton Isolator base for seven series sensors (ZP7-IB-P)	No	3		
79	Ziton Flush mounting red analogue callpoint (172101)	No	4		
80	Surface mounting box with connector, red (DMN787)	No	4		
81	Hinged transparent MCP protection cover (DMN782)	No	4		
82	Resettable element manual call points (DMN800)	No	4		
83	A Series mini relay unit (99102)	No	4		
84	Relay Enclosure (PVC)	No	4		
85	Electro Magnetic Lock - 12VDC (273kg)	No	2		
86	Electro Magnetic Lock ZL Bracket	No	2		
87	12v Battery 7.2amp (Forbatt)	No	2		
88	3.2amp Power Supply (Meanwell)	No	2		
89	PH30 Fire Cable	No	1 840		
90	Block Plan	No	1		
91	Product Manual	No	3		
	<u>Access Control - Finger Print Scanner</u> <u>Supply, deliver, install, test & commission the</u> <u>following including fixing brackets and accessories</u> <u>(Equivalents to be approved by Engineer)</u>				
92	Portal Wiegand Reader Module (72HMW901)	No	2		
93	ImproX Integrated Power Supply (IPS) - Black Metal Box (72IPS900-0-0-GB)	No	3		
94	12v Battery 7.2amp	No	3		
	Carried to Collection				R
	Section No. 4 - New Works Electrical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
95	Sigma Lite (Multi) WR - Lite - Biometrics (691201-02-WRL03)	No	4		
96	Sigma Upgrade - Users 3 000 - License (691001-02)	No	4		
97	Electro Magnetic Lock - 12VDC (78BEL600S)	No	3		
98	Electro Magnetic Lock ZL Bracket (78ZL600)	No	3		
99	Call Point - resettable green, with lid (76200-RG-V2)	No	3		
100	MSO300 Biometric enrolment reader	No	1		
101	Mylar Cable	No	276		
102	Cat5e Cable	No	92		
103	1mm Power Cable	No	86		
104	Block Plan	No	1		
105	Product Manual	No	1		
	<u>Close out</u>				
106	Close-out documentation (As-builts, Equipment Manuals, etc)			SUM	
	<u>Labelling, Test and Commissioning</u>				
107	Test and Commissioning and all electrical and electronic (Smoke Detection, CCTV, Access Control, Alarm, Intercom, Gate motor, etc) equipment and systems			SUM	
108	Labeling of all electrical equipment (Each Component to have minimum of DB and Circuit Designation) (LABELING TO BE DONE IN TRAFOLLITE (BLACK LETTERS WITH WHITE BACKGROUND)			SUM	
109	Labeling of all electronic equipment (LABELING TO BE DONE IN TRAFOLLITE (BLACK LETTERS WITH WHITE BACKGROUND)			SUM	
	Carried to Collection			R	
	Section No. 4 - New Works Electrical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
110	Safety, Usage and Warning Labeling (LABELING TO BE DONE IN ABS Plastic - 0.9mm White Plastic (Various Text and Images)	No	9		
	<u>BUDGETARY ALLOWANCES</u>				
	<u>Scaffolding Supply and Install including fixing brackets and accessories (Equivalents to be approved by Engineer)</u>				
111	Movable Scaffolding			SUM	
	<u>Earthing and Lighting protection System (LPS) Supply and Install including fixing brackets and accessories (Equivalents to be approved by Engineer)</u>				
112	Design, Supply and Install underground earthing and LPS		Item		22 002.00
	Carried to Collection			R	
	Section No. 4 - New Works Electrical Installation				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 4 - New Works

Bill No 13

Electrical Installation

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

176

177

178

179

180

181

182

183

184

185

Carried Forward to Summary of Section No. 4

R

Section No. 4 - New Works
Electrical Installation

KZN DEPARTMENT OF HEALTH

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO. 4: NEW LINKS</u>				
	<u>BILL NO. 14</u>				
	<u>GLAZING</u>				
	<u>PREAMBLES</u>				
	Tenderer' are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.150 for CPAP purposes				
	<u>GLAZING TO ALUMINIUM WITH BEADS FIXED TO MANUFACTURERS SPECIFICATION (BEADS ELSEWHERE)</u>				
	<u>6.5mm Thick toughened safety glass</u>				
1	Panes exceeding 0.1m2 and not exceeding 0.5m2	m2	14		
	<u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u>				
	<u>6mm Silvered float glass copper backed mirrors with polished edges fixed with double sided adhesive tape</u>				
2	Mirror 475 x 820mm high	No	12		
	Carried Forward to Summary of Section No. 4				R
	Section No. 4 - New Works Glazing				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO. 4: NEW LINKS</u>				
	<u>BILL NO. 15</u>				
	<u>PAINTWORK</u>				
	<u>PREAMBLES</u>				
	Tenderer' are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.152 for CPAP purposes				
	<u>PAINTWORK, ETC., TO NEW WORK</u>				
	<u>ON FLOATED PLASTER</u>				
	<u>One coat 'Dulux Trade Alkali Resistant Primer' and two coats 'Dulux Trade 70 Midsheen' paint or equally approved paint</u>				
1	On internal walls	m2	3 224		
	<u>One coat 'Dulux Trade Alkali Resistant Primer' and two coats 'Trade 100 Lowsheen' paint or equally approved paint</u>				
2	On external walls	m2	330		
	<u>ON SMOOTH CONCRETE</u>				
	<u>One coat 'Dulux Trade Alkali Resistant Primer' and two coats 'Dulux Wash and Wear Silk' or equally approved</u>				
3	On ceilings and beams	m2	481		
	Carried to Collection				R
	Section No. 4 - New Works Paintwork				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>ON PLASTER BOARD</u>				
	<u>One coat 'Dulux Trade Alkali Resistant Primer' and two coats 'Dulux Trade 100 Lowsheen' paint or equally approved paint</u>				
4	On ceilings and cornices	m2	488		
	<u>ON FIBRE-CEMENT, ETC.</u>				
	<u>One coat 'Dulux Trade Alkali Resistant Primer' and two coats 'Dulux Trade 100 Lowsheen' paint or equally approved paint</u>				
5	On exterior fascias and barge boards	m2	13		
6	On exterior ceilings	m2	17		
7	On interior sills	m2	11		
	<u>ON METAL</u>				
	<u>Prepare and apply one coat "Dulux" cleaner for galvanised iron, one coat "Dulux" primer for galvanised iron, one coat "Dulux Trade" universal undercoat and two coats "Dulux" gloss enamel or equally approved paint</u>				
8	On backs of door frames	m2	95		
	<u>ON WOOD</u>				
	<u>One coat "Dulux Primer" for wood, one coat "Dulux" universal undercoat and two coats "Dulux Pearl glo Polyurethane Non-drip Enamel" or equally approved paint</u>				
9	On doors	m2	295		
	<u>Two coats "ABE Provonite" coal tar paint or equally approved paint</u>				
10	On roof timbers	m2	54		
	Carried to Collection				R
	Section No. 4 - New Works Paintwork				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 4 - New Works

Bill No 15

Paintwork

COLLECTION

Total Brought Forward from Page No.

**Page
No**

188

189

Amount

Carried Forward to Summary of Section No. 4

Section No. 4 - New Works
Paintwork

KZN DEPARTMENT OF HEALTH

R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Bill No	<u>SECTION SUMMARY - Section No. 4 - New Works</u>	Page No	Amount
1	Earthworks	122	
2	Concrete, Formwork & Reinforcement	128	
3	Masonry	133	
4	Waterproofing	136	
5	Roof Coverings	139	
6	Carpentry & Joinery	144	
7	Ceilings, Partitions & Access Flooring	148	
8	Ironmongery	154	
9	Metalwork	158	
10	Plastering	161	
11	Tiling	165	
12	Plumbing and Drainage	175	
13	Electrical Installation	186	
14	Glazing	187	
15	Paintwork	190	
	Carried to Final Summary		
	Section No. 4 - New Works		R
	KZN DEPARTMENT OF HEALTH		

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 5: EXTERNAL WORKS (ALL TRADES) (PROVISIONAL)</u></p> <p><u>BILL NO. 1</u></p> <p><u>EXTERNAL WORKS (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>Tenderer' are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.102 Alterations, 104 Earthworks, 110 Concrete, 111 Formwork, 114 Reinforcement, 118 Masonry, 124 Metal roofing, 126 Carpentry and Joinery, 142 In-situ finishes, 146 Drainage, 148 Plumbing, 152 Painting, 154 Roadwork for CPAP purposes</p>				
	<p><u>SITE CLEARANCE, ETC.</u></p> <p><u>Site clearance, etc.</u></p>				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc., and trees not exceeding 200mm girth including grubbing up all roots, scoffling up as required and cart away all vegetation and debris	m2	361		
	<p><u>Digging up topsoil</u></p>				
2	Strip average 150mm thick layer of topsoil and stockpile on site	m2	361		
	Carried to Collection				R
	Section No. 5 - External Works External Works (All trades)				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>REMOVAL OF TREES, ETC.</u>				
	<u>Cut down and remove, grub up roots and fill in holes</u>				
3	Tree exceeding 500mm and not exceeding 1000mm girth	No	2		
	<u>CONCRETE STORMWATER CHANNELS</u>				
	<u>25MPa/19mm Vibrated reinforced concrete drainage channel laid in not exceeding 25MPa/19mm Vibrated reinforced concrete drainage channel laid in not exceeding 2080mm long panels to falls and finished smooth to non-slip finish Class U2 wood float finish on all exposed faces, including construction joints sealed with polysulphide sealing compound: long panels to falls and finished smooth to non-slip finish Class U2 wood float finish on all exposed faces, including construction joints sealed with polysulphide sealing compound:</u>				
4	1000mm Wide x 100mm thick extreme (80mm average thick V-shaped stormwater channel including associated earthworks, concrete, formwork, etc. complete)	m	385		
	<u>WASHING LINES</u>				
5	T-Pole washing line comprising of a set of fully hot dipped galvanised T poles (2 no.) with 5 lines on each T-pole which are 5m long each and tied on each end including concrete base (10MPa base size 300 x 300 x 600mm deep with all excavation and removal of surplus excavated material from site) complete	No	4		
	Carried to Collection				R
	Section No. 5 - External Works External Works (All trades)				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 5 - External Works

Bill No 1

External Works (All trades)

COLLECTION

Total Brought Forward from Page No.

**Page
No**

192

193

Amount

Carried Forward to Summary of Section No. 5

Section No. 5 - External Works
External Works (All trades)

KZN DEPARTMENT OF HEALTH

R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 5: EXTERNAL WORKS (ALL TRADES) (PROVISIONAL)</u></p> <p><u>BILL NO. 2</u></p> <p><u>EXTERNAL WORKS - EXTERNAL PLUMBING AND DRAINAGE</u></p> <p><u>PREAMBLES</u></p> <p>Tenderer' are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No. 104 Earthworks, 110 Concrete, 111 Formwork, 114 Reinforcement, 118 Masonry, 146 Drainage, 148 Plumbing, for CPAP purposes</p>			
	<p><u>EXTERNAL PLUMBING AND DRAINAGE</u></p> <p><u>STORMWATER DRAINAGE</u></p> <p><u>Concrete Class 75D OGEE pipe laid on Class "B" bedding, backfilling and compacting to 95% Modified AASHTO density and necessary risk of collapsing and dewatering of trenches</u></p>			
1	Excavate for and lay 300mm concrete pipe in ground not exceeding 1.0m deep	m	25	
2	Excavate for and lay 600mm concrete pipe in ground not exceeding 1.0m deep	m	25	
3	Excavate for and lay 600mm concrete pipe in ground exceeding 1.0m and not exceeding 2.0m deep	m	245	
	Carried to Collection			R
	Section No. 5 - External Works External Plumbing and Drainage			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>Manholes, etc.</u>			
4	Excavate for and construct one brickwall sump using NFX Hard burnt clay bricks in fair facing set on 150mm thick concrete base graded to falls, and with 150mm reinforced concrete cover slab using Y12 steel bars at 200mm centres in both directions and with rebated opening to take cover and frame (grate and frame elsewhere measured), Size of catchpit internally 800 x 800mm not exceeding 1.0m deep	No	6	
5	Excavate for and construct one brickwall sump using NFX Hard burnt clay bricks in fair facing set on 150mm thick concrete base graded to falls, and with 150mm reinforced concrete cover slab using Y12 steel bars at 200mm centres in both directions and with rebated opening to take cover and frame (grate and frame elsewhere measured), Size of catchpit internally 800 x 800 mm not exceeding 1.0m deep	No	10	
	<u>Cast Iron Covers, Grates and Frames</u>			
6	Ductile Iron lockable hinged cover and frame as manufactured by PAM ST Gobain size 600 x 600mm light duty cover and frame	No	14	
7	PAM ST Gobain 450 x 450mm cast iron gate and frame	No	2	
	<u>Sundries</u>			
8	Extra over pipe trenches, manhole for excavation in soft rock	m3	20	
9	Extra over pipe trenches, manhole for excavation in hard rock	m3	10	
10	Cart away surplus material to a dumping site located by the contractor	m3	400	
11	Import Class "B" bedding and initial backfill to 300mm above crown of pipe	m3	250	
12	Backfilling trenches with material from the excavations, compacted to a density of at least 95% Mod AASHTO	m3	803	
	Carried to Collection			R
	Section No. 5 - External Works External Plumbing and Drainage			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>Testing</u>			
13	Allow for testing the whole of the Stormwater Drainage System to the satisfaction of the architect and Local authority. All defective work to removed and made good at the contractors expense and the whole re tested until found satisfactory	Item		
	<u>SOIL DRAINAGE</u>			
	<u>Class 34 uPVC pipe laid on Class "B" bedding , including excavations in pickable material, backfilling and compacting to 95% Modified AASHTO density and all necessary risk of collapse and dewatering of trenches</u>			
14	110mm Pipe vertical or ramped to cleaning eye (no excavation)	m	25	
15	110mm Pipe laid in and including excavations not exceeding 1.0m deep	m	30	
16	160mm Pipe laid in and including excavations not exceeding 1.0m deep	m	200	
17	160mm Pipe laid in and including excavations exceeding 1.0m and not exceeding 2.0m deep	m	65	
	<u>Extra over CLASS 34 uPVC pipe for fittings</u>			
18	110mm Bends	No	68	
19	160mm Bends	No	10	
20	110mm Junction	No	4	
21	160mm Junction	No	7	
22	160mm Reducing junction	No	36	
	Carried to Collection			R
	Section No. 5 - External Works External Plumbing and Drainage			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>Gullies</u>			
23	Excavate for and construct gully comprising of 110mm uPVC gully trap with 190mm diameter uPVC hopperhead with PVC grating, all set in mass concrete and not exceeding 500mm deep. The top of the gully to be raised 75mm above surrounding ground level and internally dished down to hopper head with smoothed render and external of raised sides to be finished neatly	No	12	
	<u>Rodding Eyes</u>			
24	110mm Cast iron rodding eyes set in 300 x 300 x 300mm thick 110mm Cast iron rodding eyes set in 300 x 300 x 300mm thick 15MPa/19 unreinforced concrete surround finished smooth on exposed surfaces with rounded angles unreinforced concrete surround finished smooth on exposed surfaces with rounded angles	No	10	
	<u>Precast Manhole Rings, etc.</u>			
25	Excavate for and construct inspection chamber comprising of 1050 diameter precast concrete rings set on 350mm thick 20MPa/19mm unreinforced concrete base. The base of the manhole to be dished down to open manhole channel and finished in 1:2 HAC render with all angles rounded. All pipe built into manhole shall not exceed 1.0m in length and shall have clean dry sand glued on the external surface. Manhole to be fitted with 150mm precast concrete cover slab with 550mm diameter opening to take cover and frame (elsewhere measured) All joints between manhole rings to be sealed with bitumen mastic sealant. Depth of manhole not exceeding 1.0m deep	No	12	
26	Ditto as above but exceeding 1.0m and not exceeding 2.0m deep	No	5	
	<u>Covers and Frames, etc.</u>			
27	Ductile Iron lockable hinged cover and frame as manufactured by PAM ST Gobain size 600mm diameter x 65kg and set in position as per manufacturers instructions	No	17	
	Carried to Collection			R
	Section No. 5 - External Works External Plumbing and Drainage			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
28	1050mm x 150mm Thick precast concrete cover slab with reinforcing	No	17	
	<u>Sundries</u>			
29	Excavate for and locate existing soil drain pipe, cut into same for new manhole	Item		
30	Extra over pipe trenches, manhole for excavation in soft rock	m3	20	
31	Extra over pipe trenches, manhole for excavation in hard rock	m3	40	
32	Cart away surplus material to a dumping site located by the contractor	m3	90	
33	Import Class "B" bedding and initial backfill to 300mm above crown of pipe	m3	90	
34	Backfilling trenches with material from the excavations, compacted to a density of at least 95% Mod AASHTO	m3	150	
	<u>Testing</u>			
35	Allow for testing the whole of the Soil Drainage System to the satisfaction of the architect and Local authority. All defective work to removed and made good at the contractors expense and the whole re tested until found satisfactory	Item		
	<u>DOMESTIC WATER MAINS</u>			
	<u>Class 10 HDPE pipe laid on Class "B" bedding, including excavations in pickable material, backfilling and compacting to 95% Modified AASHTO density and all necessary risk of collapse and dewatering of trenches</u>			
36	Excavate for and lay 75mm HDPE pipe in ground not exceeding 1.0m deep	m	110	
	Carried to Collection			R
	Section No. 5 - External Works External Plumbing and Drainage			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>Extra over HDPE pipe for HDPE compression type fittings PLASSON or equal</u>			
37	75mm Reducer	No	2	
38	75mm Elbow	No	6	
39	75mm Tee	No	2	
40	75mm Reducing tee	No	4	
41	75mm HDPE flanged adaptor complete with gasket and bolt set	No	2	
	<u>Valves, stopcocks, etc.</u>			
42	75mm Cast iron flanged wheel head gate valve	No	1	
43	75mm Cast iron resilient seal flanged non return valve	No	1	
	<u>Valve chambers, etc.</u>			
44	Excavate for and build valve box set on 1300 x 1600 x 150mm thick concrete base, 230mm NFX extra hard burnt brickwall in english bond, size internally 600 x 900mm and fitted with 600 x 900mm cast iron cover and frame set level to ground level. total depth of chamber not exceeding 800mm deep	No	1	
	<u>Sundries</u>			
45	20MPa/19mm unreinforced mass concrete as anchor blocks around various fittings	m3	1	
46	Extra over excavation in earth for pipe trenches, valve boxes, etc for excavation in soft rock	m3	2	
47	Extra over excavation in earth for pipe trenches, valve boxes, etc for excavation in hard rock	m3	2	
48	Cart away surplus material to a dumping site located by the contractor	m3	40	
	Carried to Collection			R
	Section No. 5 - External Works External Plumbing and Drainage			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
49	Import Class "B" bedding and initial backfill to 300mm above crown of pipe	m3	40	
50	Backfilling trenches with material from the excavations, compacted to a density of at least 95% Mod AASHTO	m3	100	
	<u>Testing</u>			
51	Allow for testing the whole of the Domestic & Fire Water supplies to the satisfaction of the architect and Local authority. All defective work to removed and made good at the contractors expense and the whole re tested until found satisfactory	Item		
	<u>FIRE MAIN</u>			
	<u>Class 16 HDPE pipe laid on Class "B" bedding , including excavations in pickable material, backfilling and compacting to 95% Modified AASHTO density and all necessary risk of collapse and dewatering of trenches</u>			
52	Excavate for and lay 110mm HDPE pipe in ground not exceeding 1.0m deep	m	210	
	<u>Extra over HDPE pipe for HDPE compression type fittings Plasson or equal approved</u>			
53	110mm Reducer	No	4	
54	110mm Elbows	No	10	
55	110mm Tee	No	3	
56	75mm Ditto	No	4	
57	110mm HPDE flanged adaptor complete with gasket and bolt set	No	8	
	<u>Valves, etc.</u>			
58	110mm Cast iron flanged wheel head gate valve	No	1	
59	100mm Cast iron flanged non return valve	No	1	
	Carried to Collection			R
	Section No. 5 - External Works External Plumbing and Drainage			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>Valve chambers, etc.</u>			
60	Excavate for and build valve box set on 1300 x 1600 x 150mm thick concrete base, 230mm NFX extra hard burnt brickwall in english bond, size internally 600 x 900mm and fitted with 600 x 900mm cast iron cover and frame set level to ground level. total depth of chamber not to exceed 800mm deep	No	1	
	<u>Fire water storage tank</u>			
61	Supply and install GMS circular tank with capacity of 14000L set on engineer design floor slab, and complete with 50mm inlet valve , 100mm diameter flanged outlet	No	1	
	<u>Fire Appliances</u>			
62	65mm Brass right angle fire hydrant complete with all pipework, connection to fire main and concrete pedestal cast around	No	3	
63	65mm Twin booster connection complete with pressure gauge, "U" tube and pet cock with all pipework, connection to fire and concrete bollard cast around	No	1	
	<u>BMS pipework with fittings to fire appliances</u>			
64	80mm GMS pipe fixed to wall, soffit, etc	m	12	
	<u>Extra over for fittings</u>			
65	80mm Reducers	No	3	
66	80mm Elbows	No	6	
67	80mm Tee	No	6	
68	80mm Female iron adaptor	No	4	
69	100mm Flanged reducing adaptor	No	4	
	<u>SUNDRIES</u>			
70	20MPa/19mm unreinforced mass concrete as anchor blocks around various fittings	m3	1	
	Carried to Collection			R
	Section No. 5 - External Works External Plumbing and Drainage			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
71	Extra over excavation in earth for pipe trenches, valve boxes, etc for excavation in soft rock	m3	10	
72	Extra over excavation in earth for pipe trenches, valve boxes, etc for excavation in hard rock	m3	4	
73	Cart away surplus material to a dumping site located by the contractor	m3	150	
74	Import Class "B" bedding and initial backfill to 300mm above crown of pipe	m3	140	
75	Backfilling trenches with material from the excavations, compacted to a density of at least 95% Mod AASHTO	m3	280	
<u>EXTERNAL FIRE SIGNAGE</u>				
<u>Fire Signage in accordance with the Fire Department Specification comprising reflective face on aluminium reinforced backing fixed to and including 75mm diameter galvanised mild steel post 2.00m long finished with one coat etch primer, one coat undercoat and two coat enamel finish, including concrete base (10MPa base size 300 x 300 x 600mm deep with all excavation and removal of surplus excavated material from site) complete</u>				
76	"Fire Hydrant" sign standard size	No	3	
77	"Twin Booster" sign standard size	No	1	
78	"Emergency Assembly Point" sign standard size	No	2	
<u>TESTING</u>				
79	Allow for testing the whole of the Domestic & Fire Water supplies to the satisfaction of the architect and Local authority. All defective work to removed and made good at the contractors expense and the whole re tested until found satisfactory		Item	
Carried to Collection				R
Section No. 5 - External Works External Plumbing and Drainage				
KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 5 - External Works

Bill No 2

External Plumbing and Drainage

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

195

196

197

198

199

200

201

202

203

Carried Forward to Summary of Section No. 5

Section No. 5 - External Works
External Plumbing and Drainage

KZN DEPARTMENT OF HEALTH

R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 5: EXTERNAL WORKS (ALL TRADES) (PROVISIONAL)</u></p> <p><u>BILL NO. 3</u></p> <p><u>EXTERNAL WORKS - ROADS AND PARKING</u></p> <p><u>PREAMBLES</u></p> <p>Tenderer' are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.154 Roadwork for CPAP purposes</p>			
	<p><u>ACCESS ROADS AND PARKING</u></p> <p><u>Excavation in earth not exceeding 2m deep</u></p>			
1	Reduced levels under floors	m3	540	
	<p><u>Extra over trench and hole excavations in earth for excavation in</u></p>			
2	Soft rock	m3	54	
3	Hard rock	m3	27	
	<p><u>Extra over all excavations for carting away</u></p>			
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	540	
	Carried to Collection			R
	Section No. 5 - External Works Roads and Parking			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>Earth filling, G7 material in accordance with SANS 1200 ME, supplied by the contractor, compacted to 98% Mod AASHTO density</u>			
5	Under floors, steps, pavings, etc.	m3	180	
	<u>Earth filling, G6 material in accordance with SANS 1200 ME, supplied by the contractor, compacted to 98% Mod AASHTO density</u>			
6	Under floors, steps, pavings, etc.	m3	180	
	<u>Earth filling, G5 material in accordance with SANS 1200 ME, supplied by the contractor, compacted to 98% Mod AASHTO density</u>			
7	Under floors, steps, pavings, etc.	m3	180	
	<u>Compaction of surfaces</u>			
8	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 98% Mod. AASHTO density	m2	1 200	
	<u>Prescribed density tests on filling</u>			
9	"Modified AASHTO Density" test	No	3	
	<u>Approved Weedkiller</u>			
10	Surface of earth under roads and parking	m2	1 200	
	<u>ROAD SURFACING</u>			
	<u>Bituminous premix road surfacing</u>			
11	30mm Thick continuously Grade A asphalt wearing course	m2	1 200	
12	Prime / tack coat	m2	1 200	
13	Supply and spray MSP 1 inverted emulsion (0,81 litre/m2)	m2	1 200	
	Carried to Collection			R
	Section No. 5 - External Works Roads and Parking			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>Traffic Signs to Standard Roads Department Specification comprising reflective face on aluminium reinforced backing fixed to and including 75mm diameter galvanised mild steel post 3,00m long finished with one coat etch primer, one coat undercoat and two coat enamel finish, including concrete base (10MPa base size 300 x 300 x 600mm deep with all excavation and removal of surplus excavated material from site) complete</u>			
14	"Stop" sign standard size	No	2	
	<u>Precast concrete kerbing finished smooth on exposed surfaces including bedding, jointing and pointing</u>			
15	Kerb (SABS 927 Fig.3) 125 x 230mm high with 325 x 150mm in-situ channel and in-situ concrete haunch bedding and pointing in 1:3 cement mortar including unreinforced concrete 20MPa/13mm footing size 600 x 800mm and with 100 x 100mm unreinforced concrete triangular haunching at back of each joint including excavation, backfilling, carting off site, etc.	m	279	
16	Kerb, Circular on plan (SABS 927 Fig.3) 125 x 230mm high with 325 x 150mm in-situ channel and in-situ concrete haunch bedding and pointing in 1:3 cement mortar including unreinforced concrete 20MPa/13mm footing size 600 x 800mm and with 100 x 100mm unreinforced concrete triangular haunching at back of each joint including excavation, backfilling, carting off site, etc.	m	46	
	<u>Two coats approved road marking paint</u>			
17	100mm wide white lines (broken or unbroken)	m	186	
18	Traffic arrow 1700 x 1700mm wide extreme	No	10	
19	Paraplegic parking motif 2500 x 2500mm extreme	No	4	
	Carried to Collection			R
	Section No. 5 - External Works Roads and Parking			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 5 - External Works

Bill No 3

Roads and Parking

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

205

206

207

Carried Forward to Summary of Section No. 5

Section No. 5 - External Works
Roads and Parking

KZN DEPARTMENT OF HEALTH

R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO. 5: EXTERNAL WORKS (ALL TRADES) (PROVISIONAL)</u>				
	<u>BILL NO. 4</u>				
	<u>EXTERNAL WORKS - SCREEN WALL AND FENCING</u>				
	<u>PREAMBLES</u>				
	Tenderer' are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.104 Earthworks, 110 Concrete, 111 Formwork, 114 Reinforcement, 118 Masonry, 142 In-situ finishes, 152 Painting for CPAP purposes				
	<u>SCREEN WALL</u>				
	<u>EXCAVATION, FILLING, ETC.</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
1	Trenches	m3	53		
	<u>Extra over trench and hole excavation in earth for excavation in</u>				
2	Soft rock	m3	5		
3	Hard rock	m3	3		
	<u>Extra over all excavations for carting away</u>				
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	26		
	Carried to Collection				R
	Section No. 5 - External Works Screen Wall and Fencing				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>Risk of collapse of excavations</u>				
5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	140		
	<u>Keeping excavations free of water</u>				
6	Keeping excavations free of water		Item		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>				
7	Backfilling to trenches, holes, etc.	m3	25		
	<u>Soil insecticide</u>				
8	To bottoms and sides of trenches etc.	m2	193		
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>15MPa/19mm Concrete</u>				
9	Blinding	m3	3		
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>25MPa/19mm Concrete</u>				
10	Strip footings	m3	13		
	<u>TEST BLOCKS</u>				
11	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	1		
	Carried to Collection				R
	Section No. 5 - External Works Screen Wall and Fencing				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>REINFORCEMENT</u>				
	<u>Plain round mild steel bar reinforcement and high yield deformed steel bar reinforcement, including hoisting or lowering and fixing in position complete</u>				
12	Reinforcing bars in varying diameters	t	1.23		
	<u>PRECAST CONCRETE</u>				
	<u>"LG Green" CCB10 precast concrete coping or equally approved including bedding, jointing and pointing</u>				
13	400 x 130mm High overall coping weathered on top to 10mm thick along one edge with drip groove in bottom along both edges	m	8		
	<u>"LG Green" CCB11 precast concrete coping or equally approved including bedding, jointing and pointing</u>				
14	620 x 160mm High overall coping weathered on top to 10mm thick along one edge with drip groove in bottom along both edges	m	70		
	<u>BRICKWORK IN FOUNDATIONS</u>				
	<u>Brickwork of NFX bricks (14MPa nominal compressive strength) in Class I mortar</u>				
15	Piers	m3	2		
16	One brick walls	m2	49		
	<u>BRICKWORK IN SUPERSTRUCTURE</u>				
	<u>Brickwork of NFP bricks (14MPa nominal compressive strength) in class II mortar</u>				
17	Piers	m3	5		
18	One brick walls	m2	133		
	Carried to Collection				R
	Section No. 5 - External Works Screen Wall and Fencing				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>BRICKWORK SUNDRIES</u>				
	<u>Brickwork reinforcement</u>				
19	150mm Wide reinforcement built in horizontally	m	1 320		
20	75mm Wide reinforcement built in horizontally	m	1 195		
	<u>EXTERNAL PLASTER</u>				
	<u>Cement plaster on brickwork</u>				
21	On walls	m2	360		
	<u>PAINTWORK, ETC., TO NEW WORK</u>				
	<u>ON FLOATED PLASTER</u>				
	<u>Prepare surfaces and remove all loose material, apply one coat "Dulux Trade Alkali-Resistant Plaster Primer" and two coats "Dulux Trade 100 Lowsheen" or equally approved paint</u>				
22	On external walls	m2	360		
Carried to Collection					R
Section No. 5 - External Works Screen Wall and Fencing					
KZN DEPARTMENT OF HEALTH					

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Unit	Quantity	Rate	Amount
	<u>FENCING AND GATES</u>				
	<u>CLEAR-VU FENCING</u>				
	<u>Cochrane ClearVu Parkland Rigid Fence or equally approved pre-galvanised fence panels of 4mm thick wire with aperture size at 76,2mm x 12,7mm, reinforced with 4 x 50mm deep 'V' formation horizontal recessed bands, 2 x 75mm x 70degree flanges along sides (anti vandal internal fixtures, allowing for flush post and panel finish 48 line wire secure connection) and 2 x 30degree flanges along top and toe including 2800mm high hot dipped galvanised taper locking posts at 3300mm centers with 300 x 300 x 600mm high reinforced concrete bases including 100mm high Castle Spike running on top of fence and 600mm bitumen coated ClearVu underdig 600mm into ground. All steel items finished with marine fusion bond coating and bolting, fixing, etc in strict accordance to manufacturers specification - Colour : Black</u>				
23	Fencing approximately 2100mm high, complete	m	138		
24	Razor wire	m	138		
	<u>Supply and installation of a Galvanised Vehicle Gate</u>				
25	Vehicle gate size 5000 x 2000mm hot dipped galvanised mild steel sliding gate including 50 x 50mm galvanised mild steel frame with caster wheels fixed to bottom on galvanised mild steel track with 10 x 10mm galvanised mild steel square bars at equal intervals	No	1		
	Carried to Collection				R
	Section No. 5 - External Works Screen Wall and Fencing				
	KZN DEPARTMENT OF HEALTH				

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 5 - External Works

Bill No 4

Screen Wall and Fencing

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

209

210

211

212

213

Carried Forward to Summary of Section No. 5

R

Section No. 5 - External Works
Screen Wall and Fencing

KZN DEPARTMENT OF HEALTH

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5: EXTERNAL WORKS (ALL TRADES) (PROVISIONAL)</u>			
	<u>BILL NO. 5</u>			
	<u>EXTERNAL WORKS - WALKWAYS</u>			
	<u>PREAMBLES</u>			
	Tenderer' are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.104 Earthworks, 110 Concrete, 111 Formwork, 114 Reinforcement, 118 Masonry, 124 Metal roofing, 142 In-situ finishes, 152 Painting for CPAP purposes			
	<u>COVERED AND UNCOVERED WALKWAYS</u>			
	<u>EXCAVATION, FILLING, ETC.</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Reduced levels under floors	m3	36	
2	Holes	m3	2	
	<u>Extra over trench and hole excavation in earth for excavation in</u>			
3	Soft rock	m3	4	
4	Hard rock	m3	2	
	Carried to Collection			R
	Section No. 5 - External Works Walkways			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>Extra over all excavations for carting away</u>			
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	38	
	<u>Keeping excavations free of water</u>			
6	Keeping excavations free of water		Item	
	<u>Earth filling, G7 material in accordance with SANS 1200 ME, supplied by the contractor, compacted to 95% Mod AASHTO density</u>			
7	Under floors, steps, pavings, etc.	m3	14	
	<u>Earth filling, G2 material in accordance with SANS 1200 ME, supplied by the contractor, compacted to 93% Mod AASHTO density</u>			
8	Under floors, steps, pavings, etc.	m3	14	
	<u>Compaction of surfaces</u>			
9	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 95% Mod. AASHTO density.	m2	90	
	<u>Prescribed density tests on filling</u>			
10	Modified AASHTO Density test	No	1	
	<u>Soil insecticide</u>			
11	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming	m2	90	
12	To bottoms and sides of trenches etc.	m2	25	
	Carried to Collection			R
	Section No. 5 - External Works Walkways			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>20MPa/19mm Concrete</u>			
13	Bases	m3	2	
	<u>25MPa/19mm Concrete</u>			
14	Surface beds on waterproofing	m3	9	
	<u>TEST BLOCKS</u>			
15	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	1	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a steel float</u>			
16	Surface beds, slabs, etc.	m2	90	
	<u>20 MPa non-shrink grout</u>			
17	Bedding approximately 30mm thick under 300 x 300mm base plate including chamfered edges all round	No	26	
	<u>FORMWORK</u>			
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>			
	<u>Rough formwork to sides</u>			
18	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	180	
	Carried to Collection			R
	Section No. 5 - External Works Walkways			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>REINFORCEMENT</u>			
	<u>Plain round mild steel bar reinforcement and high yield deformed steel bar reinforcement, including hoisting or lowering and fixing in position complete</u>			
19	Reinforcing bars in varying diameters	t	0.17	
	<u>Fabric Reinforcement</u>			
20	Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	90	
	<u>DAMP PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 250 micron Consol Plastics Gunplas USB Green Waterproof sheeting sealed at laps with Gunplas Pressure Sensitive Tape</u>			
21	Under surface beds	m2	90	
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0.58mm Thick "Klip-Lok 406" or equally approved galvanised roof sheeting in strict accordance with specification</u>			
22	Roof covering with pitch not exceeding 25 degrees	m2	77	
23	Eaves flashing 580mm girth three times bent	m	120	
	<u>HOT DIPPED GALVANISED STEEL COLUMNS, RAFTERS, BEAMS ETC. INCLUDING CONNECTIONS</u>			
	<u>Welded columns in single lengths with base plates, connection plates bolted to concrete, etc</u>			
24	IPE 140 x 73 x 13 Column and Rafter beams	t	1.32	
25	254 x 146 x 31 I-beam	t	3.87	
	Carried to Collection			R
	Section No. 5 - External Works Walkways			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>HOT DIPPED GALVANISED STEEL PURLINS, GIRTS, BRACING, ETC.</u>			
	<u>Purlins bolted to steel</u>			
26	125 x 75 x 20 x 2 CRLC purlins	t	0.90	
	<u>BOLTS AND METALWORK, ETC.</u>			
	<u>Hot dipped galvanised bolts to columns, beams, rafters, etc.</u>			
27	M16 Bolts	kg	58	
28	M16 Chemical anchor bolts	kg	38	
	<u>Hot dipped galvanised base plates, etc.</u>			
29	300 x 300 x 6mm Thick embedded base plate with slotted holes for M16 chemical anchor bolts (elsewhere measured)	kg	110	
	<u>SCREEDS</u>			
	<u>Screeds on concrete</u>			
30	25mm Thick screed on floors	m2	90	
	<u>RAINWATER DISPOSAL</u>			
	<u>"Watertite" or equally approved pre painted aluminium</u>			
31	150 x 100mm Seamless eaves gutters	m	60	
32	Extra over seamless eaves gutter for stopped end.	No	2	
33	Extra over seamless eaves gutter for outlet for 100 x 75mm rainwater downpipe	No	7	
34	100 x 75mm Rainwater downpipe	m	28	
35	Extra over rainwater pipe for bend	No	14	
	Carried to Collection			R
	Section No. 5 - External Works Walkways			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
36	Extra over rainwater pipe for shoe	No	7	
	Carried to Collection			R
	Section No. 5 - External Works Walkways			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 5 - External Works

Bill No 5

Walkways

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

215

216

217

218

219

220

Carried Forward to Summary of Section No. 5

Section No. 5 - External Works
Walkways

KZN DEPARTMENT OF HEALTH

R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5: EXTERNAL WORKS (ALL TRADES) (PROVISIONAL)</u>			
	<u>BILL NO. 6</u>			
	<u>EXTERNAL WORKS - PERGOLA / BRAAI AREA</u>			
	<u>PREAMBLES</u>			
	Tenderer' are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.104 Earthworks, 110 Concrete, 111 Formwork, 114 Reinforcement, 118 Masonry, 124 Metal roofing, 126 Carpentry and Joinery, 142 In-situ finishes, 152 Painting for CPAP purposes			
	<u>PERGOLA / BRAAI AREA</u>			
	<u>EXCAVATION, FILLING, ETC.</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Ground beams	m3	1	
2	Reduced levels under floors	m3	16	
3	Holes	m3	4	
	<u>Extra over trench and hole excavation in earth for excavation in</u>			
4	Soft rock	m3	2	
5	Hard rock	m3	1	
	Carried to Collection			R
	Section No. 5 - External Works Pergola / Braai Area			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 98% Mod AASHTO density</u>			
6	Not exceeding 500mm deep for placing and removing formwork to walls etc., 500mm away from excavated face	m2	14	
	<u>Extra over all excavations for carting away</u>			
7	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	19	
	<u>Risk of collapse of excavations</u>			
8	Sides of trench and hole excavations not exceeding 1,5m deep	m2	36	
	<u>Keeping excavations free of water</u>			
9	Keeping excavations free of water		Item	
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>			
10	Backfilling to trenches, holes, etc.	m3	2	
	<u>Earth filling, G7 material in accordance with SANS 1200 ME, supplied by the contractor, compacted to 95% Mod AASHTO density</u>			
11	Under floors, steps, pavings, etc.	m3	6	
	<u>Earth filling, G2 material in accordance with SANS 1200 ME, supplied by the contractor, compacted to 93% Mod AASHTO density</u>			
12	Under floors, steps, pavings, etc.	m3	6	
	Carried to Collection			R
	Section No. 5 - External Works Pergola / Braai Area			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>Compaction of surfaces</u>			
13	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 95% Mod AASHTO density	m2	44	
	<u>Prescribed density tests on filling</u>			
14	Modified AASHTO Density test	No	1	
	<u>Soil insecticide</u>			
15	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming	m2	44	
16	To bottoms and sides of trenches, etc.	m2	48	
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>15 MPa/19mm Concrete</u>			
17	Blinding	m3	0.3	
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25MPa/19mm Concrete</u>			
18	Bases	m3	1	
19	Stub columns	m3	1	
20	Raft foundation	m3	5	
	<u>TEST BLOCKS</u>			
21	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	2	
	Carried to Collection			R
	Section No. 5 - External Works Pergola / Braai Area			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a steel float</u>			
22	Surface beds, slabs, etc.	m2	39	
	<u>20 MPa non-shrink grout</u>			
23	Bedding approximately 30mm thick under 250 x 250mm base plate including chamfered edges all round	No	8	
	<u>FORMWORK</u>			
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>			
	<u>Rough formwork to sides</u>			
24	Bases (Provisional)	m2	6	
25	Stub columns (Provisional)	m2	7	
26	Ground beams (Provisional)	m2	14	
27	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	35	
	<u>MOVEMENT JOINTS, ETC.</u>			
	<u>Saw cut joints</u>			
28	50 x 3mm Saw cut joints in top of concrete	m	8	
	<u>Construction joints through concrete, including thick cement slurry to one face</u>			
29	Surface beds not exceeding 300mm thick	m	9	
	Carried to Collection			R
	Section No. 5 - External Works Pergola / Braai Area			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>REINFORCEMENT</u>			
	<u>Plain round mild steel bar reinforcement and high yield deformed steel bar reinforcement, including hoisting or lowering and fixing in position complete</u>			
30	Reinforcing bars in varying diameters	t	0.30	
	<u>Fabric Reinforcement</u>			
31	Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	39	
	<u>DAMP PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 250 micron Consol Plastics Gunplas USB Green Waterproof sheeting sealed at laps with Gunplas Pressure Sensitive Tape</u>			
32	Under surface beds	m2	60	
	<u>JOINT SEALANTS, ETC.</u>			
	<u>"Sikaflex 355I" joint sealant or equally approved including backing cord, bond breaker, primer, etc.</u>			
33	10 x 10mm In saw cut joints in floors	m	8	
34	10 x 10mm In construction joints including raking out joint filler as necessary	m	9	
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0.58mm Thick "Klip-Lok 406" or equally approved galvanised roof sheeting in strict accordance with specification</u>			
35	Roof covering with pitch not exceeding 25 degrees	m2	45	
36	Eaves flashing 580mm girth three times bent	m	9	
	Carried to Collection			R
	Section No. 5 - External Works Pergola / Braai Area			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>HOT DIPPED GALVANISED STEEL COLUMNS, RAFTERS, BEAMS ETC.</u>			
	<u>Welded columns in single lengths with base plates, connection plates bolted to concrete, etc.</u>			
37	254 x 171 x 25 Column and Rafter	t	1.46	
38	175 x 175 x 6 Rafter	t	0.21	
	<u>HOT DIPPED GALVANISED STEEL PURLINS, GIRTS, BRACING, ETC.</u>			
	<u>Angles bolted to steel</u>			
39	120 x 120 x 6L	t	0.04	
	<u>Purlins bolted to steel</u>			
40	60 x 30 x 30 x 6 CRLC purlins	t	0.33	
	<u>BOLTS AND METALWORK, ETC.</u>			
	<u>Hot dipped galvanised bolts to columns, beams, rafters, etc.</u>			
41	M16 Bolts	kg	24	
42	M16 Chemical anchor bolts	kg	12	
43	M20 HD bolts	kg	36	
	<u>Hot dipped galvanised base plates, etc.</u>			
44	250 x 250 x 20mm Thick embedded base plate with slotted holes for M20 HD bolts (elsewhere measured)	kg	79	
	<u>SCREEDS</u>			
	<u>Screeds on concrete</u>			
45	25mm Thick screed on floors	m2	39	
	Carried to Collection			R
	Section No. 5 - External Works Pergola / Braai Area			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>FLOOR TILING</u>			
	<u>600 x 600mm Porcelain non-slip floor tiles fixed with adhesive to bedding (bedding elsewhere) including Tal Gold 6 rapid setting, joints pointed with Tal Fine Anti-Bacteria / Anti Fungal grout</u>			
46	On floors and landings			
	1. Materials (nett area) - PC amount of R 480.00/m ²			
	2. Proportion of rate adjustable related to PC amount (e.g: waste, etc.) - R			
	3. Proportion of rate not adjustable (e.g: labour, etc.) - R			
	TOTAL (to rate column) - R	m2	39	
	<u>RAINWATER DISPOSAL</u>			
	<u>"Watertite" or equally approved pre painted aluminium</u>			
47	150 x 100mm Seamless eaves gutters.	m	9	
48	Extra over seamless eaves gutter for stopped end.	No	4	
49	Extra over seamless eaves gutter for outlet for 100 x 75mm rainwater downpipe	No	4	
50	100 x 75mm Rainwater downpipe	m	16	
51	Extra over rainwater pipe for bend	No	8	
52	Extra over rainwater pipe for shoe	No	4	
	<u>BRAAI FACILITY</u>			
53	Construction of a braai facility including a chimney, chimney flue, 660 x 500mm stainless steel braai grid on supporting lugs, concrete top and all associated builder's work complete as per architect's specification (Drawing: ARCH-DB01)	No	2	
	Carried to Collection			R
	Section No. 5 - External Works Pergola / Braai Area			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 5 - External Works

Bill No 6

Pergola / Braai Area

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

222

223

224

225

226

227

228

Carried Forward to Summary of Section No. 5

Section No. 5 - External Works
Pergola / Braai Area

KZN DEPARTMENT OF HEALTH

R

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5: EXTERNAL WORKS (ALL TRADES) (PROVISIONAL)</u>			
	<u>BILL NO. 7</u>			
	<u>EXTERNAL WORKS - WATER TANKS INCLUDING PEDESTAL</u>			
	<u>PREAMBLES</u>			
	Tenderer' are referred to the relevant Clauses in the Standard Preambles for Trades (January 2009 Rev 3) before pricing this bill.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	NOTE : Unless otherwise stated herein, all items in this Bill shall be deemed to fall into Work Group No.104 Earthworks, 110 Concrete, 111 Formwork, 114 Reinforcement, 118 Masonry, 142 In-situ finishes, 146 Drainage, 148 Plumbing, 152 Painting for CPAP purposes			
	<u>WATER TANKS INCLUDING PEDESTAL</u>			
	<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Trenches	m3	54	
2	Reduced levels under floors	m3	7	
	<u>Extra over trench and hole excavation in earth for excavation in</u>			
3	Soft rock	m3	6	
4	Hard rock	m3	3	
	Carried to Collection			R
	Section No. 5 - External Works Water Storage Tanks			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>Extra over all excavations for carting away</u>			
5	Surplus material from excavations and stock piles on site to a dumping site to be located by the contractor	m3	27	
	<u>Risk of collapse of excavations</u>			
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	144	
	<u>Keeping excavations free of water</u>			
7	Keeping excavations free of water		Item	
	<u>Earth filling obtained from the excavations and prescribed stock piles on site compacted to 95% Mod AASHTO density</u>			
8	Backfilling to trenches, holes, etc.	m3	31	
9	Backfilling to underside of surface beds	m3	4	
	<u>Compaction of surfaces</u>			
10	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 95% Mod. AASHTO density.	m2	24	
	<u>Prescribed density tests on filling</u>			
11	Modified AASHTO Density test	No	1	
	<u>Soil insecticide</u>			
12	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming	m2	24	
13	To bottoms and sides of trenches, etc.	m2	180	
	Carried to Collection			R
	Section No. 5 - External Works Water Storage Tanks			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>15 MPa/19mm Concrete</u>			
14	Blinding	m3	2	
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25MPa/19mm Concrete</u>			
15	Strip footings	m3	9	
16	Surface beds	m3	4	
	<u>TEST BLOCKS</u>			
17	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	1	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a steel float</u>			
18	Surface beds, slabs, etc.	m2	24	
	<u>FORMWORK</u>			
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>			
	<u>Rough formwork to sides</u>			
19	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	48	
	Carried to Collection			R
	Section No. 5 - External Works Water Storage Tanks			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>REINFORCEMENT</u>			
	<u>Plain round mild steel bar reinforcement and high yield deformed steel bar reinforcement, including hoisting or lowering and fixing in position complete</u>			
20	Reinforcing bars in varying diameters	t	0.90	
	<u>Fabric Reinforcement</u>			
21	Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	24	
	<u>BRICKWORK IN FOUNDATIONS</u>			
	<u>Brickwork of NFX bricks (14MPa nominal compressive strength) in Class I mortar</u>			
22	One brick walls	m2	58	
	<u>BRICKWORK SUNDRIES</u>			
	<u>Bagging of 1:3 cement and sand mixture</u>			
23	On brick surfaces	m2	58	
	<u>Brickwork reinforcement</u>			
24	75mm Wide reinforcement built in horizontally	m	339	
25	150mm Wide reinforcement built in horizontally	m	339	
	<u>FACE BRICKWORK</u>			
	<u>"Corobrik Roan Satin" or equally approved face bricks pointed with recessed horizontal and vertical joints</u>			
26	Extra over brickwork for face brickwork in foundations (Provisional)	m2	29	
	Carried to Collection			R
	Section No. 5 - External Works Water Storage Tanks			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<u>DAMP PROOFING OF WALLS AND FLOORS</u>			
	<u>Two coats "ABE Brixéal" or equally approved bitumen emulsion waterproofing coating</u>			
27	On bagged brick walls	m2	58	
	<u>TANKS, ETC.</u>			
	Water storage tanks are to rotomoulded using virgin polyethylene which is UV stabilised and of seamless construction and shall be made with a black lining to inhibit algae.			
	The tanks shall be cylindrical with a level base and domed roof fitted with a 450mm diameter screw on lid including a vent to allow air to enter and escape as the tank is emptied or filled. The domed roof shall have four tie down slots moulded in each shall be threaded with 2.8mm thick galvanized shall be securely tied to steel framework of the stub tank			
	The tanks shall be provided with a 50mm male threaded inlet and outlet			
	<u>Polyethylene Water Storage Tanks</u>			
28	5000 Litres polyethylene water storage tank fitted with connector to 15mm copper water supply pipe, set on top of concrete tank stand (elsewhere measured) and secured with 4 No 25mm galvanised linked chain encased in polyethylene hose piping and secured to concrete base with 8mm diameter expanding bolt hooks, etc., complete	No	6	
	Carried to Collection			R
	Section No. 5 - External Works Water Storage Tanks			
	KZN DEPARTMENT OF HEALTH			

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No. 5 - External Works

Bill No 7

Water Storage Tanks

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

230

231

232

233

234

Carried Forward to Summary of Section No. 5

R

Section No. 5 - External Works
Water Storage Tanks

KZN DEPARTMENT OF HEALTH

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Bill No	<u>SECTION SUMMARY - Section No. 5 - External Works</u>	Page No	Amount
1	External Works (All trades)	194	
2	External Plumbing and Drainage	204	
3	Roads and Parking	208	
4	Screen Wall and Fencing	214	
5	Walkways	221	
6	Pergola / Braai Area	229	
7	Water Storage Tanks	235	
	Carried to Final Summary		
	Section No. 5 - External Works		R
	KZN DEPARTMENT OF HEALTH		

**MADADENI PROV. HOSPITAL UPGRADE TO STUDENT ACCOMMODATION
PROVISIONAL BILLS OF QUANTITIES**

Section No		Page No		Amount
<u>FINAL SUMMARY</u>				
1	Section No. 1 - Preliminaries and General	4		
2	Section No. 2 - Demolitions and Alterations	113		
3	Section No. 3 - External Works to Existing Structure	118		
4	Section No. 4 - New Works	191		
5	Section No. 5 - External Works	236		
	Sub-Total		R	
<u>CONTRACT PRICE ADJUSTMENT PROVISION</u>				
	<p>Allow an Amount of R 3,671,486.56 (Three Million, Six Hundred and Seventy One Thousand, Four Hundred and Eighty Six Rand and Fifty Six Cents Only) for Contract Price Adjustment Provision (CPAP), that will be adjusted based on the monthly P0151.1 Indices as published by Statistics South Africa, and the sum provided is under the sole control of the Client and upon approval by the Principal Agent and deducted in whole or in part if not required.</p>	Item		
	Sub-Total (Excluding VAT)		R	
	Value Added Tax (VAT @ 15%)		R	
	Carried to Form of Offer and Acceptance		R	
	KZN DEPARTMENT OF HEALTH			