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NOTE:

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3. Refer any discrepancies to the Architect immediately.
4. All work to be carried out in accordance with local authority requirements, National Building Regulations, and relevant S.A.B.S. standards.

REVISIONS:

Revision no.	Date	Description	Checked By:

Project Leader: Mawemvelo Mkhize

Drawn By: Shilo Ntshole

Checked By: Tomiwele Sokoya

Drawn: King Cebayayo

Project Title:

PROPOSED NEW HEALTH POST IN NKUNGINATHHE - NKANDLA IN KWAZULU NATAL

Drawing Description: Elevations



PROJ. No. SDS 2027

Scale: As Shown

Page Size: A3

Drawing Number: MC - 100

Date: AUG 2022

Page no.: 05

35 HYSLOP ROAD TOWNHILL
OFFICE PARK, BLOCK 1
PIETERMARITZBURG
3201

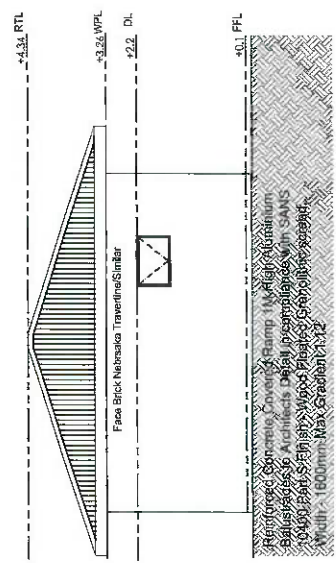
Yellow Powder Coated Aluminium Carport by specialist including fillings, finishes & rainwater goods. Sheeting laid @ 1 Degrees

Natural anodized aluminium windows with 6mm Clear safety glass in compliance with SANS 10400Part N.1 Part O & AAMISA

Algo cement or similar approved Precast vermin proof 190mm x 180mm x 140mm Square air bricks 1000mm wide v-channel apron with joints at max. 2000mm c/c spacing

Everite Nutec, or equal approved, medium density plain fibre cement fascia 12 x 225mm EVERITE NUTEC

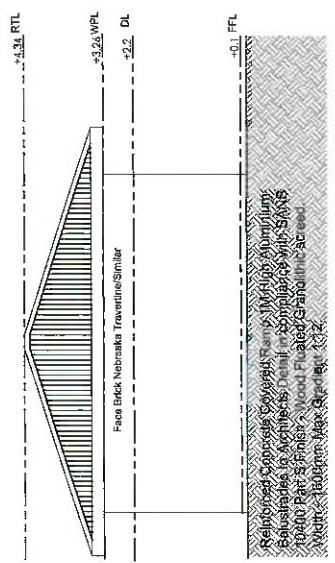
Seamless aluminium proprietary eaves gutter & down pipes with Colourtch G4 paint finish in compliance with SANS 10400Part R



N ELEVATION 1:100

Everite Nutec, or equal approved, medium density plain fibre cement fascia 12 x 225mm EVERITE NUTEC

Seamless aluminium proprietary eaves gutter & down pipes with Colourtch G4 paint finish in compliance with SANS 10400Part R

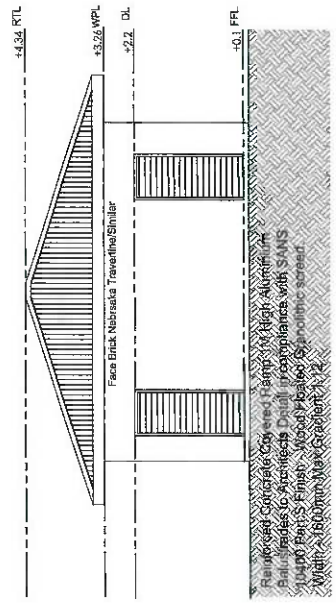


S ELEVATION 1:100

Corabrick Bickwork of NFP Bricks (14Mpa Nominal compressive strength in class II Mortar) 10 x 6mm joints in English bond Complying with SANS 2001-CM1. Construction works - Part CM1: Masonry walling, of Part M of SANS 10400

Everite Nutec, or equal approved, medium density plain fibre cement fascia 12 x 225mm EVERITE NUTEC

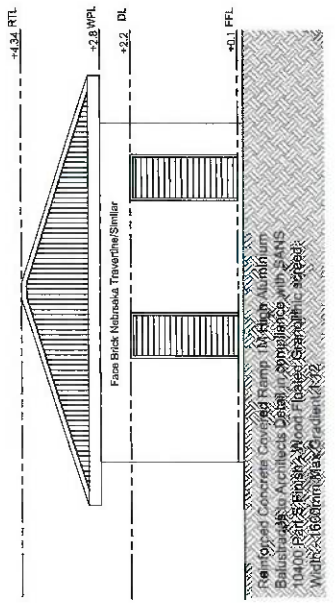
Seamless aluminium proprietary eaves gutter & down pipes with Colourtch G4 paint finish in compliance with SANS 10400Part R



E ELEVATION 1:100

Everite Nutec, or equal approved, medium density plain fibre cement fascia 12 x 225mm EVERITE NUTEC

Seamless aluminium proprietary eaves gutter & down pipes with Colourtch G4 paint finish in compliance with SANS 10400Part R



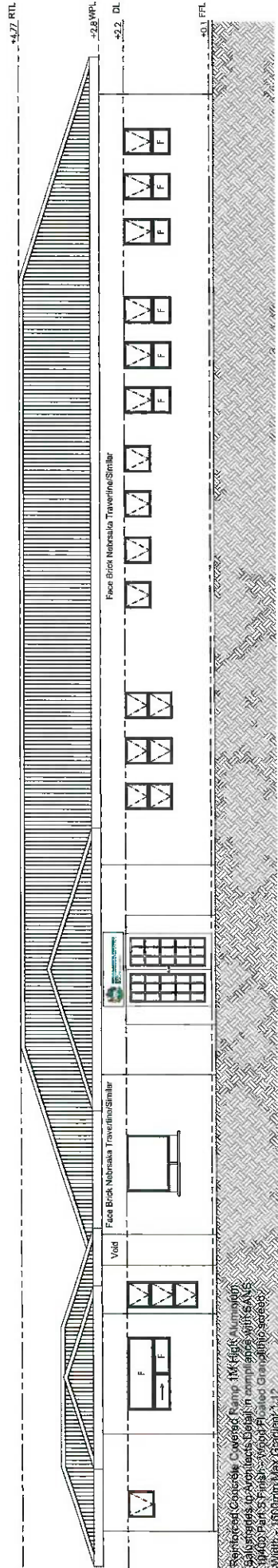
W ELEVATION 1:100

Algo cement or nsimilar approved Precast vermin proof
190mm x 190mm x 140mm Square air bricks
1000mm wide v-channel apron with joints at max.
2000mm c/c spacing

Natural anodized aluminium windows with 5mm Clear
safety glass in compliance with SANS 10400Part N , Part
O & AAMSA

Corobrik Brickwork of NFP Bricks (14Mpa Nominal
compressive strength in class II Mortar) 7,10 x 6mm joints:
in English bond Complying with SANS 2001-CM1,
Construction works - Part CM1: Masonry walling, of Part
M of SANS 10400

Everite Nulec, or equal approved, medium density plain
fibreceem fasciat 12 x 225mm EVERITE NUTEC
Seamless aluminium proprietary eaves gutter & down
pipes with Colcuretech C4 paint finish in compliance with
SANS 10400Part R



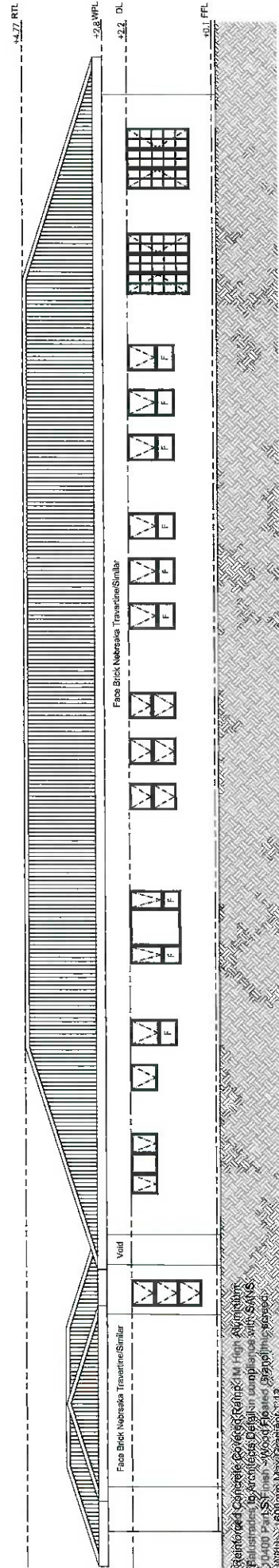
WEST ELEVATION 1:100

Algo cement or nsimilar approved Precast vermin proof
190mm x 190mm x 140mm Square air bricks
1000mm wide v-channel apron with joints at max.
2000mm c/c spacing

Natural anodized aluminium windows with 5mm Clear
safety glass in compliance with SANS 10400Part N , Part
O & AAMSA

Corobrik Brickwork of NFP Bricks (14Mpa Nominal
compressive strength in class II Mortar) 7,10 x 6mm joints:
in English bond Complying with SANS 2001-CM1,
Construction works - Part CM1: Masonry walling, of Part
M of SANS 10400

Everite Nulec, or equal approved, medium density plain
fibreceem fasciat 12 x 225mm EVERITE NUTEC
Seamless aluminium proprietary eaves gutter & down
pipes with Colcuretech C4 paint finish in compliance with
SANS 10400Part R



EAST ELEVATION 1:100

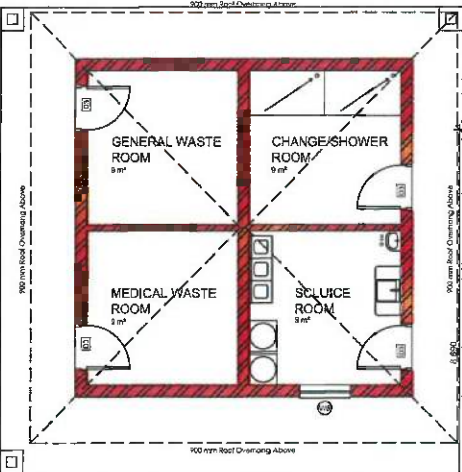
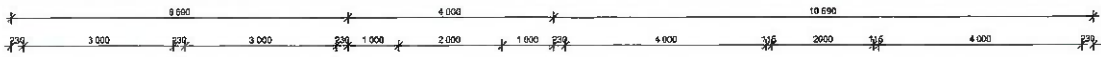
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Project Leader: Musavenkosi Mkhize
Drawn By: Shile Ntsale
Checked By: Terrilope Sokoya
District: King Cetshwayo

Project Title:
PROPOSED NEW HEALTH POST IN NKUNGUMATHE -
NKANDLA IN KWAZULU NATAL
Drawing Description: East & West Elevations

PROJ. No.: SDS 20/27
Scale: As Shown
Drawing Number: MC - 100
Date: AUG 2022
Page Size: A3
Page No.: 06

35 HYSLOP ROAD TOWNHILL OFFICE PARK,
BLOCK 1, PIETERMARITZBURG, 3201



PARKING BAYS	
STAFF	6
LENGTH: 5 m	
WIDTH: 3.5 m	
TOTAL PARKING BAYS	6
AREA SCHEDULE	
MAIN BUILDING	313.9 m ²
ABLUTIONS BUILDING	44.26 m ²
BUILDING 3 (WASTE)	44 m ²
TOTAL AREA	402.2 m²
ROOF AREA	
MAIN BUILDING	391.27 m ²
ABLUTIONS BUILDING	72.22 m ²
BUILDING 3 (WASTE)	71.1 m ²
TOTAL AREA	534.59 m²

Project Leader: Musawenkosi Mkhize

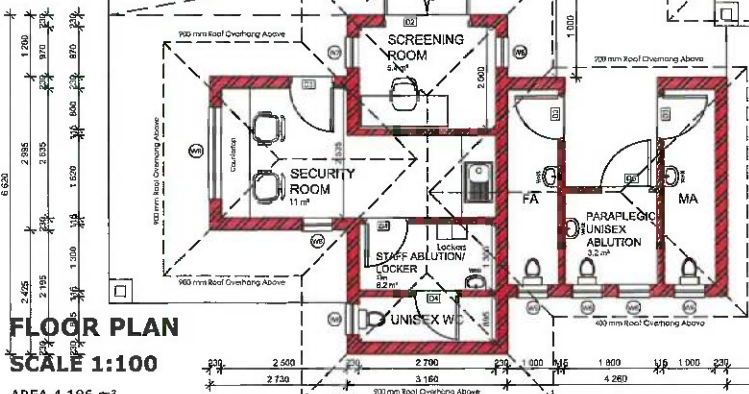
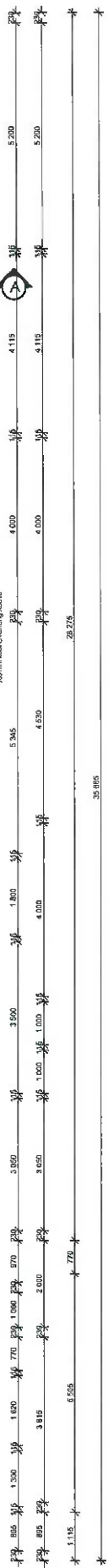
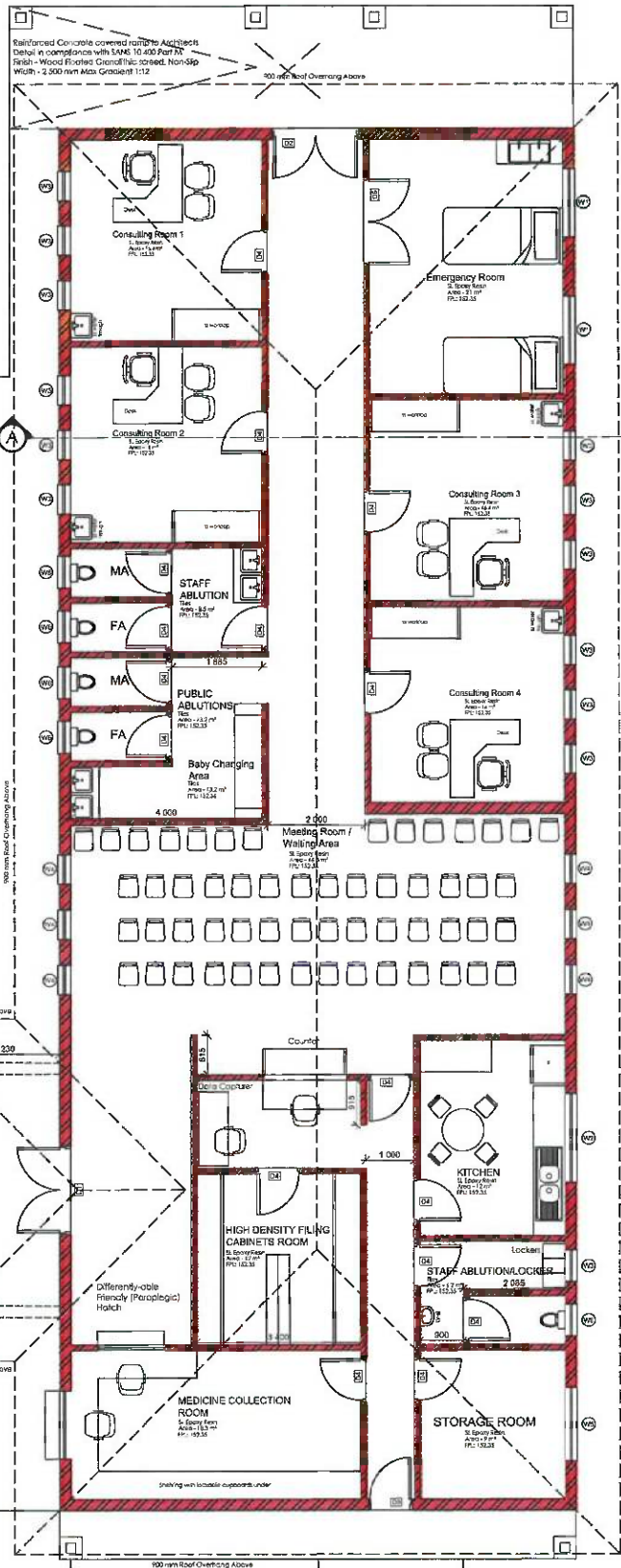
Drawn By: Sihle Nisele

Checked By: Temitope Sokoya

District: King Cetshwayo

Project Title: PROPOSED NEW HEALTH POST IN NKUNGMATHE - NKANDLA IN KWAZULU NATAL

Drawing Description: Floor Plan



FLOOR PLAN
SCALE 1:100
 AREA 4 186 m²

STAMP

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Revisits:

Revision no.	Date	Description	Checked By:

Project Leader: Mawemaweni Mabeze

Drawn By: Sile Nkabe

Checked By: Tumlhlope Soboye

District: King Cetshwayo

Project Title:

PROPOSED NEW HEALTH POST IN NKUNGINATHHE - NKANDLA IN KWAZULU NATAL

Drawing Description: North & South Elevations



PROJ. No.: SDS 2027

Scale As Shown

Page Size: A3

Drawing Number: MC - 100

Date: AUG 2022

Page no.: 04

35 HYSLOP ROAD TOWNHILL OFFICE PARK, BLOCK 1 PIETERMARITZBURG 3201

Carobrik Brickwork of NFP Bricks (14Mpa Nominal compressive strength in class II Mortar) 10 x 6mm joints in English bond Complying with SANS 2001-CM1, Construction works - Part CM1: Masonry walling, of Part M of SANS 10400

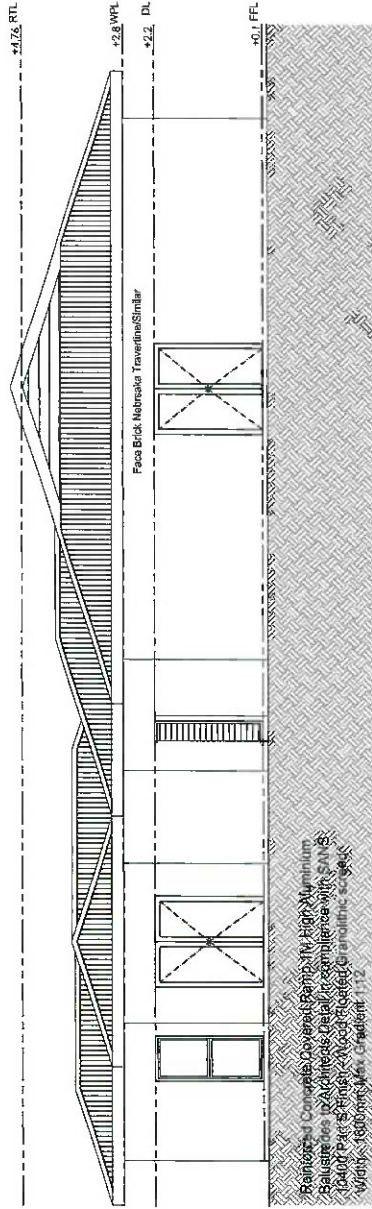
Everite Nutec, or equal approved, medium density plain fibreconcrete fasciat 12 x 225mm EVERITE NUTEC

Seamless aluminium proprietary eaves gutter & down pipes with Colourtech G4 paint finish in compliance with SANS 10400 Part R

Natural anodized aluminium windows with 6mm Clear safety glass in compliance with SANS 10400 Part N, Part O & AAWSA

Yellow Powder Coated Aluminium Carport by specialist including fittings, finishes & rainwater goods. Sheeting laid @ 1 Degree

Algo cement or nsimilar approved Precast vermin proof 190mm x 190mm x 140mm Square air bricks 1000mm wide v-channel apron with joints at max. 2000mm c/c spacing



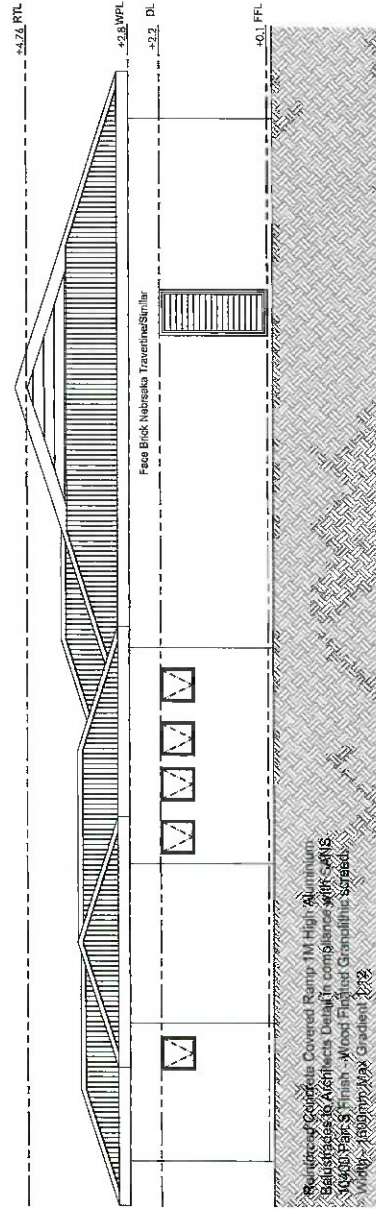
SOUTH ELEVATION 1:100

Everite Nutec, or equal approved, medium density plain fibreconcrete fasciat 12 x 225mm EVERITE NUTEC

Seamless aluminium proprietary eaves gutter & down pipes with Colourtech G4 paint finish in compliance with SANS 10400 Part R

Yellow Powder Coated Aluminium Carport by specialist including fittings, finishes & rainwater goods. Sheeting laid @ 1 Degree

Algo cement or nsimilar approved Precast vermin proof 190mm x 190mm x 140mm Square air bricks 1000mm wide v-channel apron with joints at max. 2000mm c/c spacing



NORTH ELEVATION 1:100

STAMP

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Revisions:

Revision no.	Date:	Description:	Checked By:

Project Leader: Muzamwazi Mbitse

Drawn By: Sile Ntsele

Checked By: Tsimolope Sokoysi

Drafted: King Calahwayo

Project Title:

PROPOSED NEW HEALTH POST IN NKUNJUMATHE - NKANDLA IN KWAZULU NATAL

Drawing Description: Site Plan



PROJ. No: SDS 2027

Scale: As Shown

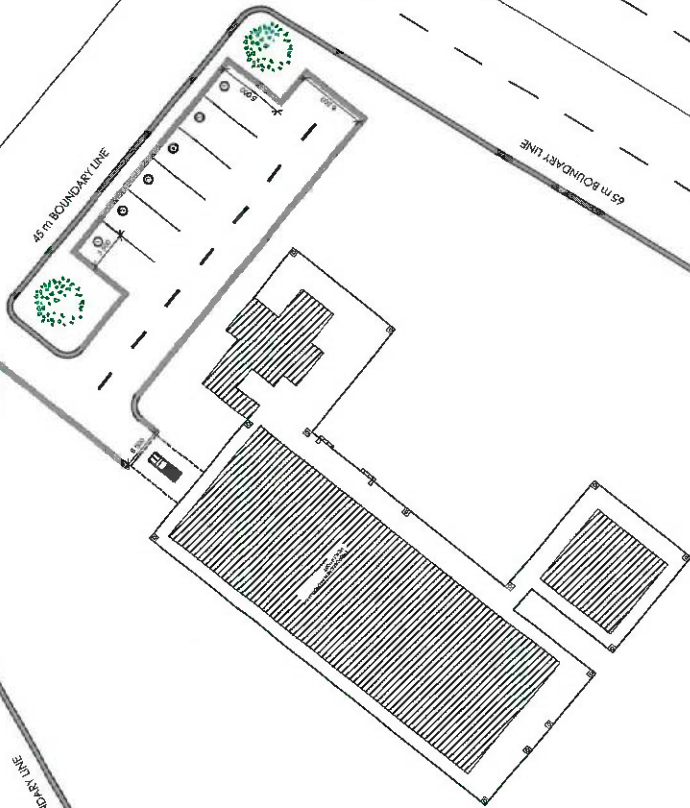
Page Size: A3

Drawing Number: MG - 100

Page no.: 08

Date: AUG 2022

35 HYSLOP ROAD TOWNHILL
OFFICE PARK BLOCK 1
PIETERMARITZBURG
5201



SITE PLAN
SCALE 1:200
AREA 2 925 m²



PROPOSED SITE PLAN BOUNDARIES FOR NKUNJUMATHE HEALTH POST



SITE BOUNDARIES FOR PROPOSED NKUNJUMATHE HEALTH POST



SITE GEOGRAPHICAL LOCATION FOR NKUNJUMATHE HEALTH POST

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<p><u>BILL NO. 1</u></p> <p><u>NOTE:</u> The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities</p> <p>Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles</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 Model Preambles and in any supplementary preambles</p> <p><u>EARTHWORKS</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground</u></p> <p>The nature of the ground is assured to be loose sandy material, therefore "earth", but possibly interspread with "hard rock" or "soft rock"</p> <p><u>Soft rock</u></p> <p>All material which can not be removed as described above, but the removal of which necessitates the use of jack hammers with moil points, will be classified as "soft rock"</p> <p><u>Hard rock</u></p> <p>All very hard material which can not be removed as described above, but the removal of which necessitates the use of jack hammers with moil points, will be classified as "soft rock"</p> <p><u>Excavations</u></p> <p>Further to the last paragraph of clause C.2.1 of the model preambles for trades, tenderers' attention is drawn particularly to the following:</p> <p>1. All excavation is measured to the net sizes of the concrete foundation components, ect. Any measurements will be executed on the same basis</p>				

2. Payment will be made only on this basis and any over excavation will not be measured or paid for

3. Tenderers shall therefore allow in their prices for all over excavation, backfilling to sides and for making up to bottoms as described. Excavation to provide specific space in accordance with the standard system of measuring builders' work has, where necessary, been seperately measured

Carting away of excavated material

Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site

Filling

Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the standard system of measuring building work, prices for filling and backfilling shall include for all section and any multiple handling of material

SITE CLEARANCE ETC

Site clearance

1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m ²	600,00
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2	Stripping average 100 mm thick layer of top soil and depositing material in prescribed stock piles on site	m ²	600,00
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BULK EXCAVATIONS

EXCAVATION, FILLING, ETC

Excavation in earth not exceeding 1,5m deep			
3	To reduce levels	m ³	4 000,00

Extra over trench and hole excavations in earth for excavation in

4	Soft rock	m ³	500,00
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5	Hard Rock	m ³	250,00
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	Extra over all excavations for carting away		
	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	1 000,00
6			
	Risk of collapse of excavations		
	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	1 000,00
7			
	Keeping excavations free of water		
	Keeping excavations free of water	Item	1,00
8			
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density		
	Filling over site.	m ³	3 000,00
11			
	EXCAVATION OTHER THAN BULK		
	<u>EXCAVATION, FILLING, ETC</u>		
	Excavation in earth not exceeding 1,5m deep		
	Trenches	m ³	300,00
3			
	Extra over trench and hole excavations in earth for excavation in		
	Soft rock (10%)	m ³	50,00
4			
	Hard Rock (5%)	m ³	150,00
5			
	Extra over all excavations for carting away		
	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	240,00
6			
	Risk of collapse of excavations		
	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	800,00
7			
	Keeping excavations free of water		
	Keeping excavations free of water	Item	1,00
8			
	<u>FILLING ETC</u>		
	Coarse river sand filling supplied by the contractor		
	Under floors etc	m ³	60,00
9			

	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density			
11	Backfilling to trenches, holes, etc	m ³	90,00	
	Compaction of surfaces			
	Compaction of ground surface 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			
12		m ²	600	
	SOIL POISONING			
	Approved termite poisoning per SANS code of practise			
	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m ²	600,00	
13	To bottoms and sides of trenches etc	m ²	500,00	
TOTAL FOR EARTHWORKS				
	BILL No. 2			
	CONCRETE, FORMWORK AND REINFORCEMENT			
	NOTE: The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities			
	Cost of tests			
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)			
	Formwork			

<p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p>			
<p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described</p>			
<p>Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high 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>15MPa/19mm concrete</p>			
1	Surface blinding under footings (50 mm thick)	m ³	50,00
2	Surface blinding under surface bed (50 mm thick)	m ³	15,00
<p><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></p>			
<p>20MPa/19mm concrete</p>			
3	footings (230 mm thick)	m ³	75,00
4	Surface beds (100 mm Thick)	m ³	90,00
<p><u>TEST BLOCKS</u></p>			
5	Making and testing 150 x 150 x 150mm concrete strength test cube (3 CUBES PER SET)	SET	30,00

<u>CONCRETE SUNDRIES</u>		
Finishing top surfaces of concrete smooth with a wood float		
6	Surface beds	m ² 600,00
<u>FORMWORK</u>		
<u>SMOOTH AND FAIR FORMWORK (DEGREE OF ACCURACY I)</u>		
Smooth formwork to sides		
7	veranda	m 10,00
<u>REINFORCEMENT (PROVISIONAL)</u>		
Mild steel reinforcement to structural concrete work		
8	Bars not exceeding 10mm diameter	t 3,00
High tensile steel reinforcement to structural concrete work		
9	Bars not exceeding 20mm diameter	t 6,00
<u>Fabric reinforcement</u>		
Type 193 fabric reinforcement in concrete surface beds,ramps		
10		m ² 600,00
<u>TOTAL FOR CONCRETE FORMWORK & REINFORCEMENT</u>		
<u>BILL No. 3</u>		
<u>MASONRY</u>		
<u>NOTE:</u> The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities		
<u>BRICKWORK</u>		
Sizes in descriptions		
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick		
Face bricks		
Bricks shall be ordered timeously to obtain uniformity in size and colour		
Pointing		

	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc		
	<u>FOUNDATIONS</u>		
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar		
1	One brick walls	m ²	150,00
2	half brick wall	m ²	200,00
	<u>SUPERSTRUCTURE</u>		
	Brickwork of NFP clay bricks in class II mortar		
3	One brick walls	m ²	300,00
4	Half brick walls	m ²	350,00
	<u>FACE BRICKWORK</u>		
	Face bricks of FBA bricks in stretcher bond (Allow the Prime Cost Amount of R6 500,00 per thousand brick delivered to site excluding waste and VAT) pointed with flush horizontal and vertical joints		
5	Extra over brickwork for face brickwork in foundations	m ²	50,00
6	Extra over brickwork for face brickwork in superstructure	m ²	300,00
	<u>BRICKWORK SUNDRIES</u>		
	<u>Bagging of 1:6 cement sand mixture</u>		
7	On outer face of inner skin of brick surfaces	m ²	350,00
	<u>2,5mm Brickwork reinforcement</u>		
8	75mm Wide reinforcement built in horizontally	m	1 500,00
9	150mm Wide reinforcement built in horizontally in foundations (Provisional)	m	1 600,00
10	150mm Wide reinforcement built in horizontally	m	1 000,00
	<u>Turning pieces to soffit of lintels etc</u>		
11	220mm Wide turning piece to soffit of bricks lintels etc	m	50,00
	<u>Galvanised hoop iron cramps, ties, etc</u>		

12	30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end built into brickwork	No	24,00	
<u>Joint forming material in movement joints</u>				
13	12mm Bitumen impregnated fibre board built in vertically between brickwall and concrete surfaces	m	250,00	
<u>Air bricks</u>				
14	Set of two 229 x 152mm terra-cotta vermin proof air bricks	No	20,00	
<u>TOTAL FOR MASONRY</u>				
<u>BILL No. 4</u>				
<u>WATERPROOFING</u>				
<u>NOTE:</u> The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities				
<u>Waterproofing</u>				
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 Brikrip DPC" embossed damp proof course</u>				
1	In walls	m ²	75,00	
<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	m ²	350,00	
<u>JOINT SEALANTS ETC</u>				
<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
3	10 x 10mm In horizontal expansion joints including raking out expansion joint filler as necessary	m	120,00	

TOTAL FOR WATERPROOFING			
BILL No. 5			
ROOF COVERINGS, ETC.			
<p>NOTE: The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities</p> <p>Where battens for roof coverings form part of the plate nailed timber roof truss design it shall be included under the roof construction in the "Carpentry and Joinery" trade and not under this trade</p>			
ROOF INSULATION			
<p><u>Sisalation FR430' heavy industrial grade reinforced aluminium foil and polyethylene insulation with fire retardant properties</u></p> <p>Reinforced aluminium foil insulation and waterproofing lapped 140mm at all intersections as underlay to aluminium sheet metal roofing and supported on and including 1,6mm diameter galvanised wire supports spaced at 300mm centres and would around and screwed to steel or timber purlins including cutting and waste</p>			
1	(measured nett)	m ²	510,00
PROFILED METAL SHEETING AND ACCESSORIES			
<p>0,6mm "S" profile chromadek roof sheeting as per manufactures details corrugated pattern sonda polyclosures under</p>			
2	chromadek ridge capping	m ²	570,00
3	Ridge Capping 460mm girth	m	21,00
4	Ridge end cap 460mm girth	No	4,00
5	Hip capping 460mm girth	m	40,00
6	Valley Capping 460mm girth	m	22,00
TOTAL FOR ROOF COVERINGS			
BILL No. 6			
CARPENTRY AND JOINERY			
<p>NOTE: The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities</p>			

<u>Fixing</u>		
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete		
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere		
<u>Joinery</u>		
Descriptions of frames shall be deemed to include frames, transomes, rails, etc		
Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts		
Sawn treated softwood grade V4		
Roof construction to Hipped roof 5700mm long x 5700mm wide x 1500mm high (25 degrees pitch) with 600mm overhang on both sides including trusses, runners, bracings etc (wall plates, purlins hurricane clips, elsewhere measured).		
1	Item	1,00
4	38 x 114mm Wall plates	m 90,00
5	38 x 228mm Gangboards	m 30,00
6	50 x 76mm Purlins	m 550,00
7	50 x 76mm Batten to hip	m 200,00
<u>Wrought treated softwood grade V4</u>		
9	50 x 76mm Trimmers	m 70,00
10	50 x 76mm Sprockets	m 70,00
11	76 x 76mm Splayed purlins	m 40,00
<u>Sundries</u>		
12	Two coats "ABE provonite" paint on exposed roof timbers and wall plates.	m ² 170,00
13	Teco two way hurricane clips	No 1 800,00
<u>EAVES, VERGES, ETC</u>		

	'Everite Nutec" Medium density fibre-cement fascias		
	Everite nutec medium density fibre cement fascia boards (product No.041-202)		
14	12mm thick x 225mm with aluminium H-profile fascia joiners (product No.685-195)	m	90,00
	<u>DOORS ETC</u>		
	Semi-solid core door (SS Oak Heritage 92496) or other approved		
15	900 x 2100mm Double rebated door frame suitable for single skinned wall rebated frames are to be formed of 1,2mm sheet steel and once rebated frames and surrounds are to be formed of 1,6mm sheet steel neatly mitered and welded at angles and reinforced with 1,6mm sheet steel cleats welded over mitered angles in channels of profiles. Suitable for single door.	No	17,00
16	1800 x 2100mm Double rebated door frame suitable for double wall rebated frames are to be formed of 1,2mm sheet steel and once rebated frames and surrounds are to be formed of 1,6mm sheet steel neatly mitered and welded at angles and reinforced with 1,6mm sheet steel cleats welded over mitered angles in channels of profiles. Suitable for double door. 6mm laminated safety glass to panels.	No	3,00
	<u>JOINERY FITTINGS</u>		
	<u>NOTE:</u> The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities		
	<u>FITTINGS</u>		
	Description for the following joinery fittings, ect., shall be deemed to include all ironmongery, metalwork, paint finishes, ect., and for assembling and installing complete		
	<u>Type references to fittings</u>		

	<u>WORKTOPS, CUPBOARDS AND COUNTERS, ECT</u>			
	<u>High density filing cabinets room, complete with ironmongery, silicone sealant at joints with walls, ect as detailed on architect's drawing (accompanying these bills of quantities)</u>			
16	cabinets with slatted shelf units 3500mm long x 600mm deep x 2500mm high overall , and 3500mm long x 600mm deep x 2500mm high overall, and 3400mm long x 600mm x 2500mm high overall, and fixed to and including 22 x 50mm cleats plugged to wall	No	1,00	
	<u>BUILT IN CUPBOARDS UNITS</u>			
	<u>Timber built in cupboards with 18mm V313 water resistant particleboard melamine faced shelving, doors, dividers, ect, complete with iron mongery, finishes, ect as detailed on Architect's drawing (Accompanying these bills of quantities)</u>			
	<u>Timber worktops with 32mm thick decorative laminated worktop with 1,2mm thick "Formica" finish, complete with ironmongery, finishes, silicone sealant at joints with walls, ect as detailed on Architect's Drawing(accompanying these bills of quantities)</u>			
17	Worktop 1800mm long x 915mm deep overall fixed to steel brackets (brackets elsewhere)	No	2,00	
	<u>Timber cupboard and counter units with 18mm thick V313 water resistant melamine faced particleboard shelving, doors, dividers, ect and 32mm thick decorative laminated worktops with 1,2mm thick "Formica" finish, complete with ironmongery, finishes, silicone sealant at joints with walls, ect as detailed on Architect's Drawing(Accompnying these bills of quantities)</u>			
18	Floor drawer and table unit 1800mm long x 600mm deep x 900mm high overall	No	5,00	
19	kitchen built in cupboards 3400mm long x 600mm deep x 900mm high overall fixed to wall	No	1,00	
20	Floor cupboard, with slatted shelf units 6015mm long x 535mm deep x 900mm high overall and 3050mm x 535mm deep x 900mm high overall	No	1,00	

TOTAL FOR CARPENTRY & JOINERY

BILL No. 7

CEILINGS, PARTITIONS AND ACCESS FLOORING

NOTE: The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities

Descriptions:

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete

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

CEILINGS ETC

SUSPENDED CEILINGS

Notes:

Electrical light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance must be made accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)

Scaffolding:

The sub contractor must provide for all scaffolding required to do the work. Scaffolding can be erected on the concrete surface bed below all ceilings

Installation Heights:

All ceilings and bulkheads are installed not exceeding 3 500mm above the concrete floor level below unless stated to the contrary in the description

Sawn softwood

1	38 x 38mm Hangers(provisional)	m	33,00	
2	38 x 114mm ceilings joists (provisional)	m	66,00	0,00
3	50 x 76mm Runners (provisional)	m	42,00	0,00
Flush plastered suspended ceilings				
9.5mm "Gyproc RhinoBoard" gypsum plasterboard ceiling on galvanised mild steel "screw up" type suspension grid finished with mesh scrim over the joints and one coat gypsum skim plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer				
6mm Rhino boards with Rhino "M" cover strips fixed on 50 x 38 brandering at 400c/c.				
4	75mm Rhino cove cornice.	m ²	313,91	
Extra over ceiling for opening for 100mm diameter downlighter				
5		No	30,00	
Aerolite insulation or similar approved				
75mm Insulation closely fitted and laid on top of brandering between roof timbers etc				
6		m ²	313,91	
Extra over ceiling for 600 x 600mm trap door of 38 x 114mm softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around				
7		No	1,00	
"Rhino" gypsum plasterboard cornices				
8	75mm Coved cornice	m	398,00	
<u>TOTAL FOR CEILINGS</u>				
<u>BILL No. 8</u>				
<u>IRONMONGERY</u>				
<u>NOTE:</u> The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities				
<u>Proprietary items</u>				
Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items				

<p>Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered</p> <p>On request returnable samples are to be provided to the principal agent for consideration</p> <p>Finishes to ironmongery</p> <p><u>PRICES</u></p> <p>Prices are to include for fixing to hardwood, softwood or pressed steel door frames</p> <p><u>The following items are for taking delivery, unpacking and fixing in position only. The cost to supply the items is covered elsewhere in a Prime Cost Amount</u></p> <p><u>LOCKS (FIX ONLY)</u></p>		
1	"2252-76SS" 3 LEVER MORTICE LOCKSET	No 20,00
<p><u>HINGES</u></p> <p><u>ASSA ABLOY</u></p>		
2	"H100SC" 100mm Satin chrome barrel bolt	No 4,00
<p><u>HANDLES</u></p> <p><u>ASSA ABLOY</u></p>		
3	"SS6SG01-44-24SS" seagull SS lever handle on plate	No 20,00
<p><u>PIN BOARDS, ETC</u></p> <p><u>Parrot or equal approved</u></p>		
4	pin board 1200 x 800 mm high fixed to brickwork.	No 1,00
<p><u>BATHROOM FITTINGS</u></p>		
5	Toilet roll holder as "Halcast" chrome thiefproof item No.366	No 5,00
6	116 x 135 x 326mm Soap Dispenser surface mounted	No 5,00

7	275 x 112 x 355mm Paper Towel Dispenser surface mounted	No	15,00		
8	355 x 168 x 460mm Waste Bin	No	6,00		
9	Sanitary Bin	No	5,00		
10	Sanitary mini bag holder	No	5,00		
	SUNDRIES				
11	38mm Diameter rubber door stop plugged	No	8,00		
<u>TOTAL FOR IRONMONGERY</u>					
<u>BILL No. 9</u>					
<u>METALWORK</u>					
NOTE: The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities					
<u>Hot dipped galvanised mild steel</u>					
50 x 50 x 5mm Angle section rail 1000mm long, four times drilled for washing line(washing line elsewhere) and three times holed for bolts (bolts elsewhere) to					
1	brickwork or concrete	No	4,00		
2	10mm Diameter x 80mm long expansion bolt	No	12,00		
3	2,5mm Core diameter plastic coated washing line fixed through holes in supports (supports elsewhere) and securely bound at both ends	m	26,00		
<u>STAINLESS STEEL DOOR FRAMES</u>					
<u>1,6MM Thick grade 304 double rebated frames complete with base tiles, striking plate, rubber buffers and fixing lugs and supplied with three 100 x 75mm "Union 8352-100SS" two ball bearing butt hinges per door leaf fixed with stainless steel screws and suitable for half brick walls</u>					
4	Frame door 900 x 2100mm high	No	17,00		
<u>ALUMINIUM DOOR FRAMES</u>					
Exterior aluminium double rebated frames for double doors, complete with base tiles, striking plate, rubber buffers and fixing lugs and supplied with ball bearing butt hinges per door leaf fixed with stainless steel					
5	screws and suitable for half brick walls	No	3,00		

<u>GALVANISED MILD STEEL WELDED BURGLAR BARS</u>				
<u>Hot dipped galvanised steel burglar bars formed of 25 x 25mm flat section welded frame holed for bolts(elsewhere), with 10 x 10mm square bars set horizontally and vertically in the same plane welded at all joints as detailed on Architect's Drawing No 027890 - 303 accompanying these bills of quantities</u>				
5	Burglar bars to suit window opening sizes 654 x 1150mm high	No	17,00	
6	Burglar bars to suit window opening sizes 1825 x 1245mm high	No	3,00	
<u>WINDOWS</u>				
<u>HBS Window wall top hung aluminium windows, charcoal powder coated frame material shall be of 6063T6 aluminium alloy with a minimum structural wall, Complete with 16 diameter heavy duty galvanized steel burglar bars. 6mm clear safety glass, glazing must be carried out in accordance with SABS 0137, SANS 10400 Part H, O & XA</u>				
7	Window size 654 x 1150mm high	No	24,00	
8	Window size 1825 x 1245mm high	No	5,00	
<u>GALVANISED PRESSED STEEL DOOR FRAMES</u>				
<u>1,2mm Thick double rebated door frames with 1 pair steel butt hinges, chromium plated striking plate and rubber buffers suitable for half brick walls</u>				
9	Frame for door 2032x813 mm high	No	3,00	
<u>ALUMINIUM BURGLAR BARS</u>				
<u>Xpanda aluglide 18 1800mm x 2150mm CHRCOAL, fully framed trellis gate with slamlock</u>				
10		No	3,00	
<u>TOTAL FOR METALWORK</u>				
<u>BILL No. 10</u>				
<u>PLASTERING</u>				
<u>NOTE: The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities</u>				

GRANOLITHIC		
<u>Method</u>		
The method to be used shall be either the monolithic method or the bonded method		
<u>Preparation</u>		
For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic		
PLASTERING		
SCREEDS		
20mpa screeds "wood floated" on concrete		
1	25mm Thick on floors	m ² 313,93
GRANOLITHIC SCREED		
2	25MM Granolithic screed to consist of 3 parts granite chippings, 2 parts sieved concrete sand and one part cement	m ² 150,00
INTERNAL PLASTER		
Cement plaster on brickwork		
3	12mm Cement plaster steel trowelled, on brickwork . On walls	m ² 600,00
TOTAL FOR PLASTERING		
BILL No. 12		
TILING		
NOTE: The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities		

<u>Fixing</u>		
Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding		
Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat		
Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Professional" ("Ceresit Tylon"?) range of products as recommended by the manufacturer of the tiles		
<u>GLAZED CERAMIC WALL TILING</u>		
<u>200 X 200 X 4,7MM "Johnson Matisse MWB4" glazed wall tiles fixed with "Tal Professional" tile adhesive to plaster (plaster elsewhere) with 2mm wide joints continuous in both directions with joints pointed with "Tal Super White Grout"</u>		
1	On walls	m ² 100,00
2	On walls in splashbacks	m ² 8,00
<u>FLOOR TILES</u>		
<u>330 x 330 x 7mm "Johnson Granito GN 573 light grey" ceramic floor tiles fixed with "Tal Professional" tile adhesive to bedding (bedding elsewhere) with 6mm wide joints continuous in both directions with joints pointed with "Tal Super White Grout"</u>		
3	On floors	m ² 600,00
4	On narrow widths	m ² 50,00
5	Cut skirting 165mm high	m 500,00
6	Fair cutting and fitting tiles around pipe not exceeding 100mm diameter (provisional)	No 34,00
7	Fair cutting and fitting tiles around WC base (provisional)	No 16,00

TOTAL FOR TILING

BILL No. 13

PLUMBING AND DRAINAGE

NOTE: The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities

Wire gratings

Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings

Stormwater channels

Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site

French drains

Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, "?" geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site

Septic tanks

Descriptions of proprietary type septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions and disposal of surplus material on site

Stainless steel basins, sinks, wash troughs, urinals, etc

Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0) Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8) Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8) Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable

STORMWATER DRAINAGE

	<u>Upvc underground pipes in "Class B" bedding</u>		
1	110mm pipes laid in and including trenches not exceeding 1m deep	m	35,00
	<u>Sumps, catchpits, inspection on chambers, ect</u>		
2	Catchpit size 450 x 450mm and not exceeding 750mm deep internally	No	4,00
	<u>Gratings, covers , ect</u>		
3	450 x 450mm x 27kg cast iron dished grating and frame	No	4,00
	<u>Sundries</u>		
4	Unreinforced concrete encasing to 100mm horizontal pipes	m	6,00
	<u>SOIL DRAINAGE</u>		
	<u>Upvc underground pipes in "Class B" bedding</u>		
5	110mm Pipes vertically or ramped to cleaning eyes ect (no excavation)	m	6,00
6	110mm Pipes laid in and including trenches not exceeding 1m deep	m	35,00
7	110mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	16,00
	RAINWATER DISPOSAL		
	0,6mm Chromadek seamless gutters and rainwater pipes		
8	100x75x0,6mm THICK ROLL-FORMED COLOMET GUTTER, GUTTER BRACKETS TO BE FIXED AT MAX. 1000mm c/c.75mm.	m	123,52
9	Extra over gutter for stopped end	No	4,00
10	Extra over gutter for outlet for 100 x 75mm pipe	No	4,00
11	Down pipe	m	12,00
12	Extra over rainwater pipe for plinth bend	No	4,00
	<u>Sundries</u>		
13	Extra over excavation in earth for trenches, chambers, ect for intermediate excavation	m ³	1,00

14	Extra over excavation in earth for pipe trenches, chambers, ect for hard rock excavation	m ³	1,00
15	Extra over excavation in earth for pipe trenches, chambers, ect for excavation in Class A boulders	m ³	0,30
16	Extra over excavation in earth for pipe trenches, chambers, ect for excavation in Class B bolders	m ³	0,20
17	Unreinforced concrete encasing to 100mm horizontal pipe	m	10,00
18	Unreinforced concrete encasing to 110mm vertical pipe	m	8,00
19	Unreinforced concrete encasing to 110mm vertical bend	No	2,00
20	150 x 150 x 75mm Precast concrete inspection eye maker slab set in ground	No	2,00
21	100mm Cast iron "ABC" Cleaning eye	No	2,00
<u>SANITARY FITTINGS</u>			
The following in WASH HAND BASINS fixed complete in position and connected to services			
22	Vaal 'Hibiscus' lavatory basin 510 x 405mm white (code7051) bolted to wall using two 8mm bolts(code8446ZO). Pillar tap as cobra No. 114 with carina handle, basin waste, plug and chain plug and chain as cobra No. 301. C.P. bottle trap as cobra No. 340 with 75mm deep seal. Basin to be sealed with silicone at wall junction. Cold water pipe to be 15mm DIA. Copper and fitted with approved 'cobra' fullway bulcock.	No	10,00
23	"Aquassive Code 755499" white vitreous china low level WC suite comprising washdown pan fitted with "De Luxe" heavy duty double flap white plastic seat and 6 liter cistern with flush pipe	No	2,00
24	Bottle trap as 'cobra' No.340 with 75mm deep seal	No	5,00
25	15mm castle or other approved ballostop	No	5,00
The following in WC suite complete			

26	Vaal 'Hisbiscus' close coupled 104 degree outlet open rim washdown pan (code 772200) and matching 9 litre cistern (code 710531) complete with heavy duty lid and fitments.	No	5,00
27	15 mm Chromium plated ballostop	No	5,00
<u>WASTE UNIONS ETC</u>			
Cobra Watertech or equal approved			
28	32mm 301 CP basin waste union	No	10,00
<u>TAPS, VALVES, ETC.</u>			
Cobra Watertech or equal approved			
29	Cobra Carina 214CA-20 Pillar tap Cold water only to basin and 32 mm chromium plated waste union with backnut, chain and vulcanite plug	No	10,00
30	40 x 40mm Butyl rubber "P" OR "S" trap jointed to waste outlet fitting and to Upvc pipe including clamps	No	10,00
Brass			
31	15mm Stopcock	No	10,00
<u>SANITARY PLUMBING</u>			
<u>EXTRA OVER UPVC PIPES FOR THE FOLLOWING FITTINGS</u>			
32	50mm Pipes	m	12,00
33	110mm Pipes	m	12,00
Extra over uPVC pipes for fittings			
34	50mm Bend	No	30,00
35	110mm Bend	No	6,00
36	110mm Pan connector	No	6,00
37	50mm Access bend	No	30,00
38	110 mm Access bend	No	20,00
39	110mm "GI Two-way" vent valve	No	6,00
<u>WATER SUPPLIES</u>			
40	15 mm Copper (1.2 mm thick) service pipe average 350 mm girth, bent as necessary, including one straight copper to iron fitting (tap)	No	20,00
41	22mm pipes	m	50,00

42	22mm pipes laid in and including trenches <u>Copper pipes (class 460/2) with soldered joints</u>	m	35,00		
43	15mm Pipes	m	30,00		
44	Extra over copper pipes (class 460/2) for capillary fittings				
45	15mm Fittings <u>Taps, valves, etc.</u>	No	15,00		
46	15 mm Brass bibcock with hose connection and 1/2" threaded outlet	No	10,00		
47	15mm "1075" Chromium plated ballock and joints to copper pipes	No	10,00		
48	15mm "131" brass stopcock and joints to copper pipes	No	10,00		
49	15mm "139" Chromium plated brass screw down underwall pattern stopcock with sliding wall flange and joints to copper pipes	No	15,00		
	<u>"Kwikot"</u>				
50	22mm Vacuum breaker and joints to copper pipes	No	6,00		
51	22mm "KH3.216" Pressure valve with integral isolating valve and expansion relief valve and joints to copper pipes	No	4,00		
	<u>ELECTRICAL WATER HEATERS</u>				
	<u>"Kwikot"</u>				
52	150 Liter integrated "Thermosiphon" solar type hot water heater with collector panel, three kilowatt element, draincock and safety valve, fixed on gyser tray (gyser tray elsewhere) in roof space and joints to copper pipes, all in accordance with the electrical engineer's specification (Electrical Connection by Electrician)	No	2,00		
53	Polyethylene geyser tray to suit 150 liter horizontal geyser in roof space with socketed connection for overflow pipe	No	2,00		
	<u>TESTING</u>				

	<p><u>Allow for testing the whole of the Sanitary plumbing and Water supplies to the satisfaction of the architect and local authorities. All defective work is to be taken out and replaced at the contractor's expense and the whole retested until found satisfactory</u></p> <p><u>LAGGING</u></p> <p>25mm Thick fibre glass insulation wrapped around pipes and fittings including straps, etc.</p>			
54	15mm Pipes	m	20,00	
	<p><u>RAINWATER STORAGE TANKS</u></p> <p><u>Polythelene</u></p> <p>"JO-JO" 2500 liter rainwater storage tank 1400mm diameter and 1750mm high, including 75 x 75mm inlet and 20mm diameter galvanised wire ties, the top end looped and protected by 15mm hospipe and hooked around bracket, the other end fixed to and including anchor of 12mm diameter high tensile rod 500mm girth cast into concrete surface bed (Surface bed</p>			
55		No	2,00	
56	20mm Rough brass locking cock jointed to 20mm diameter galvanised mild steel pipe 220mm long, including all necessary connectors, the pipe jointed to connection on water tank and supported with bracket formed of 3mm galvanised mild steel plate size 50 x 300mm high, the plate once holed for pipe and twice holed for and including 8mm diameter expansion bolts, including necessary mortices in concrete surface bed.	No	2,00	
	<p><u>SOIL DRAINAGE</u></p> <p><u>uPVC gulleys</u></p>			
57	110 mm Gulley not exceeding 500mm deep	No	1,00	
	<p><u>Sundries</u></p> <p><u>Testing</u></p>			
58	Testing water pipe system	Item	1	
	<p><u>FIRE APPLIANCES ETC</u></p>			
59	4.5kg "DCP" dry chemical powder fire extinguisher with hook of 120 x 20 x 2mm mild steel strip bent to form hook screwed to and including 520 x 100 x 22mm varnished meranti block six times plugged and screwed to wall	No	1	

60	190 x 190mm ABS plastic symbolic safety sign type FB2 plugged and screwed to wall	No	1	
<u>HOLES ETC</u>				
Core drilling hole not exceeding 50mm diameter				
61	220mm Face brick wall	No	1	
Core drilling hole exceeding 50mm and not exceeding 100mm diameter				
62	220mm Face brick wall	No	1	
<u>TOTAL FOR PLUMBING AND DRAINAGE</u>				
<u>BILL No.14</u>				
<u>GLAZING</u>				
<u>NOTE:</u> The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities				
<u>Float glass</u>				
The term "float glass" is used for monolithic annealed glass				
<u>Laminated glass</u>				
Laminated glass to have polyvinyl butyral (PVB) interlayer(s)				
TOPS, SHELVES, DOORS, MIRRORS, ETC.				
450 x 600 mm HIGH MIRROR WITH POLISHED EDGES, SCREWED TO WALL WITH CHROME DOMED SCREWS,				
1	Mirror 450 x 600 mm high with four screws	No	5,00	
GLAZING TO STEEL WITH PUTTY				
6mm Clear float glass				
2	Panes exceeding 0,1m ² and not exceeding 0,5m ²	m ²	10,00	
<u>TOTAL FOR GLAZING</u>				
<u>BILL No. 15</u>				
<u>PAINTING</u>				

NOTE: The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities

PREPARATORY WORK TO EXISTING WORK

Previously painted plastered surfaces

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

Previously painted metal surfaces

Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal

Previously painted wood surfaces

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

PAINT SPECIFICATIONS

All painting shall be done in accordance with "?" specifications unless otherwise described

COLOURS

Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091

ON FLOATED PLASTER

One coat primer and two coats interior quality PVA emulsion paint light tone colour

1	On internal walls	m ²	313,93
2	On ceilings and cornices	m ²	313,93

ON FIBRE CEMENT

	<u>One Coat alkali-resistant primer to SABS 1416 and two finishing coats "Plascon wall 'n All" acrylic paint to SABS 1586 Grade 1</u>		
3	On fascias and barge boards	m ²	87,61
	<u>ON METAL</u>		
	<u>One coat calcium plumbate primer to SABS 912, one coat undercoat and two coats :plascon Velvago" satin polyurethane enamel paint to SABS 630 Type</u>		
4	On door frames ect	m ²	180,00
	<u>ON WOOD</u>		
	<u>One coat "Plascon Professional" wood primer to SABS 678 Type III and two coats "Plascon Velvago" satin polyurethane enamel paint to SABS 630 Type I</u>		
5	On doors	m ²	180,00

6	On roof timbers at eaves and verges	m ²	88,00		
TOTAL FOR PAINTING					
PROVISIONAL SUMS					
NOTE: The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities					
Allow a Provisional amount of R 450 000.00 (Four Hundred and Fifty Thousand Rand Only) for Equipment including curtain rails, blinds, curtains, etc.					
1		Item	1,00	450 000,00	450 000,00
ELECTRICAL WORKS					
Allow a Provisional amount of R 1 500 000.00 (One Million and Five Hundred Thousand Rand Only) for Electrical Installation					
2		item	1,00	1 500 000,00	1 500 000,00
	Allow for profit	item	1,00		
	Allow for attendance	item	1,00		
MECHANICAL WORKS					
Allow a Provisional amount of R 350 000.00 (Three Hundred and Fifty Thousand Rand Only) for Mechanical Installation					
3		item	1,00	350 000,00	350 000,00
	Allow for Profit	item	1,00		
	Allow for attendance	item	1,00		
Allow a Provisional amount of R 300 000.00 (Three Hundred Thousand Rand Only) for storm water drainage.					
		item	1,00	300 000,00	300 000,00
	Allow for Profit	item	1,00		
	Allow for attendance	item	1,00		
Allow a Provisional amount of R 600 000.00 (Six Hundred Thousand Rand Only) for sewer drainage.					
		item	1,00	600 000,00	600 000,00
	Allow for Profit	item	1,00		
	Allow for attendance	item	1,00		
Allow a Budgetary amount of R 1 500 000.00 (One Million and Five Hundred Thousand Rand Only) for Escalations.					
		item	1,00	1 500 000,00	1 500 000,00

TOTAL PROVISIONAL SUMS				
SUMMARY SECTION				
1	EARTHWORKS		0,00	
2	CONCRETE FORMWORK & REINFORCEMENT		0,00	
3	MASONRY		0,00	
4	WATERPROOFING		0,00	
5	ROOF COVERINGS		0,00	
6	CARPENTRY & JOINERY		0,00	
7	CEILINGS		0,00	
8	IRONMONGERY		0,00	
9	METALWORK		0,00	
10	PLASTERING		0,00	
11	TILING		0,00	
12	PLUMBING AND DRAINAGE		0,00	
13	GLAZING		0,00	
14	PAINTING		0,00	
15	PROVISIONAL SUMS			
TOTAL SUM				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<p><u>BILL NO. 1</u></p> <p><u>NOTE:</u> The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities</p> <p>Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles</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 Model Preambles and in any supplementary preambles</p> <p><u>EARTHWORKS</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground</u></p> <p>The nature of the ground is assured to be loose sandy material, therefore "earth", but possibly interspread with "hard rock" or "soft rock"</p> <p><u>Soft rock</u></p> <p>All material which can not be removed as described above, but the removal of which necessitates the use of jack hammers with moil points, will be classified as "soft rock"</p> <p><u>Hard rock</u></p>				

All very hard material which can not be removed as described above, but the removal of which necessitates the use of jack hammers with moil points, will be classified as "soft rock"

Excavations

Further to the last paragraph of clause C.2.1 of the model preambles for trades, tenderers' attention is drawn particularly to the following:

1. All excavation is measured to the net sizes of the concrete foundation components, ect. Any measurements will be executed on the same basis
2. Payment will be made only on this basis and any over excavation will not be measured or paid for
3. Tenderers shall therefore allow in their prices for all over excavation, backfilling to sides and for making up to bottoms as described. Excavation to provide specific space in accordance with the standard system of measuring builders' work has, where necessary, been seperately measured

Carting away of excavated material

Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site

Filling

Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the standard system of measuring building work, prices for filling and backfilling shall include for all section and any multiple handling of material

<u>SITE CLEARANCE ETC</u>		
Site clearance		
Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc		
1	m ²	126,50
<u>EXCAVATION, FILLING, ETC</u>		
Excavation in earth not exceeding 1,5m deep		
2	m ³	42,18
Extra over trench and hole excavations in earth for excavation in		
3	m ³	4,22
4	m ³	2,11
Extra over all excavations for carting away		
Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor		
5	m ³	15,02
Risk of collapse of excavations		
Sides of trench and hole excavations not exceeding 1,5m deep		
6	m ²	134,38
Keeping excavations free of water		
7	Item	1,00
<u>FILLING ETC</u>		
Coarse river sand filling supplied by the contractor		
8	m ³	3,36
Imported fill by the contractor compacted to 90% Mod AASHTO density		

9	Hardcore	m ³	6,72	
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density			
10	Backfilling to trenches, holes, etc	m ³	20,83	
	Compaction of surfaces			
	Compaction of ground surface 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			
11		m ²	67,193	
	<u>SOIL POISONING</u>			
	Approved termite poisoning per SANS code of practise			
	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m ²	67,19	
12	To bottoms and sides of trenches etc	m ²	152,15	
<u>TOTAL FOR EARTHWORKS</u>				
	<u>BILL No. 2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>NOTE:</u> The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities			
	<u>Cost of tests</u>			

<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>			
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
15MPa/19mm concrete			
1	Surface blinding under footings (50 mm thick)	m ³	1,97
2	Surface blinding under surface bed (50 mm thick)	m ³	3,36
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
20MPa/19mm concrete			
3	footings (230 mm thick)	m ³	9,07
4	Surface beds (100 mm Thick)	m ³	6,72
<u>TEST BLOCKS</u>			
5	Making and testing 150 x 150 x 150mm concrete strength test cube	No	5,00
<u>CONCRETE SUNDRIES</u>			
Finishing top surfaces of concrete smooth with a wood float			
6	Surface beds	m ²	67,19
<u>FORMWORK</u>			
<u>REINFORCEMENT (PROVISIONAL)</u>			
Mild steel reinforcement to structural concrete work			

<p>7 Bars not exceeding 10mm diameter</p> <p>High tensile steel reinforcement to structural concrete work</p>	<p>t</p>	<p>0,91</p>		
<p>8 Bars not exceeding 20mm diameter</p> <p><u>Fabric reinforcement</u></p>	<p>t</p>	<p>0,23</p>		
<p>9 Type 193 fabric reinforcement in concrete surface beds,ramps</p>	<p>m²</p>	<p>67,19</p>		
<p><u>TOTAL FOR CONCRETE FORMWORK & REINFORCEMENT</u></p>				
<p><u>BILL No. 3</u></p>				
<p><u>MASONRY</u></p>				
<p><u>NOTE:</u> The tenderer is refered to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities</p>				
<p><u>BRICKWORK</u></p>				
<p>Sizes in descriptions</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>Face bricks</p>				
<p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p>				
<p>Pointing</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>FOUNDATIONS</u></p>				

Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar		
1	One brick walls	m ² 30,00
2	half brick wall	m ² 12,47
<u>SUPERSTRUCTURE</u>		
Brickwork of NFP clay bricks in class II mortar		
3	One brick walls	m ² 98,18
4	Half brick walls	m ² 40,80
<u>FACE BRICKWORK</u>		
Face bricks of FBA bricks in stretcher bond (Allow the Prime Cost Amount of R 5 500,00 per thousand brick delivered to site excluding waste and VAT) pointed with flush horizontal and vertical joints		
5	Extra over brickwork for face brickwork in foundations	m ² 9,58
6	Extra over brickwork for face brickwork in superstructure	m ² 11,42
<u>BRICKWORK SUNDRIES</u>		
<u>Bagging of 1:6 cement sand mixture</u>		
7	On outer face of inner skin of brick surfaces	m ² 67,19
<u>2,5mm Brickwork reinforcement</u>		
8	75mm Wide reinforcement built in horizontally	m 95,54
9	150mm Wide reinforcement built in horizontally in foundations (Provisional)	m 248,52
10	150mm Wide reinforcement built in horizontally	m 203,30
<u>Turning pieces to soffit of lintels etc</u>		

11	220mm Wide turning piece to soffit of bricks lintels etc	m	14,23	
	<u>Galvanised hoop iron cramps, ties, etc</u>			
12	30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end built into brickwork	No	6,00	
TOTAL FOR MASONRY				
BILL No. 4				
WATERPROOFING				
NOTE: The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities				
Waterproofing				
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				
DAMPPROOFING OF WALLS AND FLOORS				
<u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u>				
1	In walls	m ²	12,90	
<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	m ²	67,19	
JOINT SEALANTS ETC				

<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
10 x 10mm In horizontal expansion joints including raking out expansion joint filler as necessary	m	40,60		
TOTAL FOR WATERPROOFING				
BILL No. 5				
ROOF COVERINGS, ETC.				
<p>NOTE: The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities</p>				
<p>Where battens for roof coverings form part of the plate nailed timber roof truss design it shall be included under the roof construction in the "Carpentry and Joinery" trade and not under this trade</p>				
PROFILED METAL SHEETING AND ACCESSORIES				
0,6mm "S" profile chromadek roof sheeting as per manufactures details corrugated pattern sonda polyclosures under				
1 chromadek ridge capping	m ²	83,99		
2 Ridge Capping 460mm girth	m	9,00		
3 Ridge end cap 460mm girth	No	6,00		
4 Valley Capping 460mm girth	m	24,00		
TOTAL FOR ROOF COVERINGS				
BILL No. 6				
CARPENTRY AND JOINERY				

NOTE: The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities

Fixing

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete

Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere

Joinery

Descriptions of frames shall be deemed to include frames, transomes, rails, etc

Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts

Sawn treated softwood grade V4

1	Roof construction to Hipped roof 5700mm long x 5700mm wide x 1500mm high (25 degrees pitch) with 600mm overhang on both sides including trusses, runners, bracings etc (wall plates, purlins hurricane clips, elsewhere measured).	Item	1,00
2	Extra over for 750mm long wrought and shaped rafter foot	No	27,95
3	Extra over for 5210 mm long wrought tie beam	No	1,00
4	38 x 114mm Wall plates	m	33,54
5	38 x 228mm Gangboards	m	10,15

6	50 x 76mm Purlins	m	111,99		
7	50 x 76mm Batten to hip	m	153,33		
8	Extra over for 300mm long wrought end to purlins	No	13,03		
	<u>Wrought treated softwood grade V4</u>				
9	50 x 76mm Trimmers	m	12,69		
10	50 x 76mm Sprockets	m	16,55		
11	76 x 76mm Splayed purlins	m	12,69		
	<u>Sundries</u>				
12	Two coats "ABE provonite" paint on exposed roof timbers and wall plates.	m ²	77,48		
13	Teco two way hurricane clips	No	35,00		
	<u>EAVES, VERGES, ETC</u>				
	'Everite Nutec" Medium density fibre-cement facias				
	Everite nutec medium density fibre cement fascia boards (product No.041-202)				
14	12mm thick x 225mm with aluminium H-profile fascia joiners (product No.685-195)	m	33,54		
	<u>DOORS ETC</u>				
	Semi-solid core door (SS Oak Heritage 92496) or other approved				

15	<p>900 x 2100mm Double rebated door frame suitable for single skinned wall rebated frames are to be formed of 1,2mm sheet steel and once rebated frames and surrounds are to be formed of 1,6mm sheet steel neatly mitered and welded at angles and reinforced with 1,6mm sheet steel cleats welded over mitered angles in channels of profiles. Suitable for single door.</p>	No	5,00		
16	<p>1800 x 2100mm Double rebated door frame suitable for double wall rebated frames are to be formed of 1,2mm sheet steel and once rebated frames and surrounds are to be formed of 1,6mm sheet steel neatly mitered and welded at angles and reinforced with 1,6mm sheet steel cleats welded over mitered angles in channels of profiles. Suitable for double door. 6mm laminated safety glass to panels.</p>	No	2,00		
<u>JOINERY FITTINGS</u>					
<p><u>NOTE:</u> The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities</p>					
<u>FITTINGS</u>					
<p>Description for the following joinery fittings, ect., shall be deemed to include all ironmongery, metalwork, paint finishes, ect., and for assembling and installing complete</p>					
<u>Type references to fittings</u>					
<p>The type references to the various units are included for purposes of identification and for an indication of the general nature of the fittings required, Tenderers are referred to Drawings issued with these bills of quantities. The fittings depicted in these drawings are indicative of the general nature of the fittings required.</p>					

<p><u>Fittings</u></p> <p>The fittings generally have been measured in modules and the Type references after each module refer to the fittings of which they form a part</p> <p>The general shape, size, details and specification of the units are shown on the drawings and the tenderers shall allow in their rates for the full intent of the work described and shown on the drawings</p> <p><u>Worktops</u></p> <p>The worktops shall be supported on cupboard or drawer units or on metal leg/brackets and free ends shall be supported on and including bearers fixed to walls or adjacent fittings. (cupboard units, drawer units and metal leg/brackets are included with the revelant item)</p> <p>Note: The stated height of the cupboard units, ect under worktops includes the thickness of the worktop only (excluding the splashback over)</p> <p><u>Dimensions</u></p> <p>The stated dimensions of the units described as L-shaped on plan or U-shaped on plan are the extreme dimensions of the component, i.e the overall length measured over the external face</p> <p>The dimensions of cupboards, lockers, storage, units, ect., are stated in the following order:width x depth x height</p> <p><u>Steel posts, bearers, brackets, ect</u></p>	<p></p>	<p></p>
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<p>15</p>	<p>Unless otherwise described all steel posts, bearers, brackets, ect., shall be galvanised mild steel finished with one coat calcium plumbate primer and two coats gloss enamel paint and prices shall include for the bolting to floor or wall.</p> <p><u>JOINERY FITTINGS</u></p> <p><u>WORKTOPS, CUPBOARDS AND COUNTERS, ECT</u></p> <p><u>High density filing cabinets room, complete with ironmongery, silicone sealant at joints with walls, ect as detailed on architect's drawing (accompanying these bills of quantities)</u></p> <p><u>BUILT IN CUPBOARDS UNITS</u></p> <p><u>Timber built in cupboards with 18mm V313 water resistant particleboard melamine faced shelving, doors, dividers, ect, complete with iron mongery, finishes, ect as detailed on Architect's drawing (Accompanying these bills of quantities)</u></p> <p><u>Timber worktops with 32mm thick decorative laminated worktop with 1,2mm thick "Formica" finish, complete with ironmongery, finishes, silicone sealant at joints with walls, ect as detailed on Architect's Drawing(accompanying these bills of quantities)</u></p> <p>Worktop 1800mm long x 915mm deep overall fixed to steel brackets (brackets elsewhere)</p>	<p>No</p>	<p>1,00</p>		
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16	<p>Timber cupboard and counter units with 18mm thick V313 water resistant melamine faced particleboard shelving, doors, dividers, ect and 32mm thick decorative laminated worktops with 1,2mm thick "Formica" finish, complete with ironmongery, finishes, silicone sealant at joints with walls, ect as detailed on Architect's Drawing(Accompanying these bills of quantities)</p> <p>kitchen built in cupboards 3400mm long x 600mm deep x 900mm high overall fixed to wall</p>	No	1,00		
TOTAL FOR CARPENTRY & JOINERY					
<u>BILL No. 7</u>					
<u>CEILINGS, PARTITIONS AND ACCESS</u>					
<u>FLOORING</u>					
<u>NOTE:</u> The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities					
<u>Descriptions:</u>					
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete					
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					
<u>CEILINGS ETC</u>					
<u>SUSPENDED CEILINGS</u>					
<u>Notes:</u>					

<p>Electrical light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance must be made accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)</p>			
<p>Scaffolding:</p>			
<p>The sub contractor must provide for all scaffolding required to do the work. Scaffolding can be erected on the concrete surface bed below all ceilings</p>			
<p>Installation Heights:</p>			
<p>All ceilings and bulkheads are installed not exceeding 3500mm above the concrete floor level below unless stated to the contrary in the description</p>			
<p><u>Sawn softwood</u></p>			
1	38 x 38mm Hangers(provisional)	m	23,00
2	38 x 114mm ceilings joists (provisional)	m	33,00
3	50 x 76mm Runners (provisional)	m	22,00
<p>Flush plastered suspended ceilings</p>			
<p>9.5mm "Gyproc RhinoBoard" gypsum plasterboard ceiling on galvanised mild steel "screw up" type suspension grid finished with mesh scrim over the joints and one coat gypsum skim plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer</p>			
4	6mm Rhino boards with Rhino "M" cover strips fixed on 50 x 38 brandering at 400c/c. 75mm Rhino cove cornice.	m ²	67,19
5	Extra over ceiling for opening for 100mm diameter downlighter	No	8,00

<p>Aerolite insulation or similar approved</p>	m ²	67,19	
<p>75mm Insulation closely fitted and laid on top of brander between roof timbers etc</p>			
<p>Extra over ceiling for 600 x 600mm trap door of 38 x 114mm softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around</p>	No	1,00	
<p>"Rhino" gypsum plasterboard cornices</p>			
<p>75mm Coved cornice</p>	m	56,35	
TOTAL FOR CEILINGS			
BILL No. 8			
<u>IRONMONGERY</u>			
<p>NOTE: The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities</p>			
<u>Proprietary items</u>			
<p>Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items</p>			
<p>Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered</p>			

	On request returnable samples are to be provided to the principal agent for consideration			
	Finishes to ironmongery			
	<u>PRICES</u>			
	Prices are to include for fixing to hardwood, softwood or pressed steel door frames			
	<u>The following items are for taking delivery, unpacking and fixing in position only. The cost to supply the items is covered elsewhere in a Prime Cost Amount</u>			
	<u>LOCKS (FIX ONLY)</u>			
1	"2252-76SS" 3 LEVER MORTICE LOCKSET	No	8,00	
	<u>HINGES</u>			
	<u>ASSA ABLOY</u>			
2	"H100SC" 100mm Satin chrome barrel bolt	No	2,00	
	<u>HANDLES</u>			
	<u>ASSA ABLOY</u>			
3	"SS6SG01-44-24SS" seagull SS lever handle on plate	No	8,00	
	<u>PIN BOARDS, ETC</u>			
	Parrot or equal approved			
4	pin board 1200 x 800 mm high fixed to brickwork.	No	1,00	
	<u>BATHROOM FITTINGS</u>			
5	Toilet roll holder as "Halcast" chrome thiefproof item No.366	No	4,00	
6	116 x 135 x 326mm Soap Dispenser surface mounted	No	4,00	

7	275 x 112 x 355mm Paper Towel Dispenser surface mounted	No	4,00		
8	355 x 168 x 460mm Waste Bin	No	4,00		
9	Sanitary Bin	No	4,00		
10	Sanitary mini bag holder	No	4,00		
	SUNDRIES				
11	38mm Diameter rubber door stop plugged	No	4,00		
TOTAL FOR IRONMONGERY					
BILL No. 9					
METALWORK					
NOTE: The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities					
STAINLESS STEEL DOOR FRAMES					
<u>1,6MM Thick grade 304 double rebated frames complete with base tiles, striking plate, rubber buffers and fixing lugs and supplied with three 100 x 75mm "Union 8352-100SSS" two ball bearing butt hinges per door leaf fixed with stainless steel screws and suitable for half brick walls</u>					
1	Frame door 900 x 2100mm high	No	5,00		
ALUMINIUM DOOR FRAMES					
Exterior aluminium double rebated frames for double doors, complete with base tiles, striking plate, rubber buffers and fixing lugs and supplied with ball bearing butt hinges per door leaf fixed with stainless steel screws					
2	and suitable for half brick walls	No	2,00		

<u>GALVANISED MILD STEEL WELDED BURGLAR BARS</u>				
<u>Hot dipped galvanised steel burglar bars formed of 25 x 25mm flat section welded frame holed for bolts(elsewhere), with 10 x 10mm square bars set horizontally and vertically in the same plane welded at all joints as detailed on Architect's Drawing No 027890 - 303 accompanying these bills of quantities</u>				
3	Burglar bars to suit window opening sizes 654 x 1150mm high	No	8,00	
4	Burglar bars to suit window opening sizes 1825 x 1245mm high	No	1,00	
<u>WINDOWS</u>				
<u>HBS Window wall top hung aluminium windows, charcoal powder coated frame material shall be of 6063T6 aluminium alloy with a minimum structural wall, Complete with 16 diameter heavy duty galvanised steel burglar bars. 6mm clear safety glass, glazing must be carried out in accordance with SABS 0137, SANS 10400 Part H, O & XA</u>				
5	Window size 654 x 1150mm high	No	8,00	
6	Window size 1825 x 1245mm high	No	1,00	
<u>ALUMINIUM BURGLAR BARS</u>				
7	Xpanda aluglide 18 1800mm x 2150mm CHRCOAL, fully framed trellis gate with slamlock	No	2,00	
<u>TOTAL FOR METALWORK</u>				
<u>BILL No. 10</u>				
<u>PLASTERING</u>				

NOTE: The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities

GRANOLITHIC

Method

The method to be used shall be either the monolithic method or the bonded method

Preparation

For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic

PLASTERING

SCREEDS

20mpa screeds "wood floated" on concrete

1	25mm Thick on floors	m ²	
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			67,19
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GRANOLITHIC SCREED

2	25MM Granolithic screed to consist of 3 parts granite chippings, 2 parts sieved concrete sand and one part cement	m ²	
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			10,76
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INTERNAL PLASTER

Cement plaster on brickwork

12mm Cement plaster steel trowelled, on brickwork .				
3 On walls	m ²	67,19		
TOTAL FOR PLASTERING				
<u>BILL No. 12</u>				
<u>TILING</u>				
<u>NOTE:</u> The tenderer is refered to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities				
<u>Fixing</u>				
Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding				
Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat				
Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Professional" ("Ceresit Tylon"?) range of products as recommended by the manufacturer of the tiles				
<u>GLAZED CERAMIC WALL TILING</u>				
<u>200 X 200 X 4,7MM "Johnson Matisse MWB4" glazed wall tiles fixed with "Tal Professional" tile adhesive to plaster (plaster elsewhere) with 2mm wide joints continous in both directions with joints pointed with "Tal Super White Grout"</u>				

1	On walls	m ²	16,91		
2	On walls in splashbacks	m ²	2,00		
<u>FLOOR TILES</u>					
<u>330 x 330 x 7mm "Johnson Granito GN 573 light grey" ceramic floor tiles fixed with "Tal Professional" tile adhesive to bedding (bedding elsewhere) with 6mm wide joints continous in both directions with joints pointed with "Tal Super White Grout"</u>					
3	On floors	m ²	67,19		
4	On narrow widths	m ²	8,00		
5	Cut skirting 165mm high	m	56,35		
6	Fair cutting and fitting tiles around pipe not exceeding 100mm diametre (provisional)	No	15,00		
7	Fair cutting and fitting tiles around WC base (provisional)	No	8,00		
<u>TOTAL FOR TILING</u>					
<u>BILL No. 13</u>					
<u>PLUMBING AND DRAINAGE</u>					
<u>NOTE:</u> The tenderer is refered to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities					
<u>Wire gratings</u> Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings					

<p><u>Stormwater channels</u> Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site</p> <p><u>French drains</u> Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, "G" geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site</p> <p><u>Septic tanks</u> Descriptions of proprietary type septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions and disposal of surplus material on site</p> <p><u>Stainless steel basins, sinks, wash troughs, urinals, etc</u> Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0) Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8) Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8) Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><u>STORMWATER DRAINAGE</u></p> <p><u>Upvc underground pipes in "Class B" bedding</u></p> <p>110mm pipes laid in and including trenches</p>				
<p>1 not exceeding 1m deep</p>	<p>m</p>	<p>35,00</p>		

	<u>Sumps, catchpits, inspection on chambers, ect</u>			
2	Catchpit size 450 x 450mm and not exceeding 750mm deep internally	No	4,00	
	<u>Gratings, covers , ect</u>			
3	450 x 450mm x 27kg cast iron dished grating and frame	No	4,00	
	<u>Sundries</u>			
4	Unreinforced concrete encasing to 100mm horizontal pipes	m	6,00	
	<u>SOIL DRAINAGE</u>			
	<u>Upvc underground pipes in "Class B" bedding</u>			
5	110mm Pipes vertically or ramped to cleaning eyes ect (no excavation)	m	6,00	
6	110mm Pipes laid in and including trenches not exceeding 1m deep	m	35,00	
7	110mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	16,00	
	<u>RAINWATER DISPOSAL</u>			
	<u>0,6mm Chromadek seamless gutters and rainwater pipes</u>			
8	100x75x0,6mm THICK ROLL-FORMED COLOMET GUTTER, GUTTER BRACKETS TO BE FIXED AT MAX. 1000mm c/c.75mm.	m	40,60	
9	Extra over gutter for stopped end	No	4,00	
10	Extra over gutter for outlet for 100 x 75mm pipe	No	4,00	
11	Down pipe	m	12,00	
12	Extra over rainwater pipe for plinth bend	No	4,00	

<u>Sundries</u>		
13	Extra over excavation in earth for trenches, chambers, ect for intermediate excavation	m ³ 1,00
14	Extra over excavation in earth for pipe trenches, chambers, ect for hard rock excavation	m ³ 1,00
15	Extra over excavation in earth for pipe trenches, chambers, ect for excavation in Class A boulders	m ³ 0,30
16	Extra over excavation in earth for pipe trenches, chambers, ect for excavation in Class B bolders	m ³ 0,20
17	Unreinforced concrete encasing to 100mm horizontal pipe	m 10,00
18	Unreinforced concrete encasing to 110mm vertical pipe	m 8,00
19	Unreinforced concrete encasing to 110mm vertical bend	No 2,00
20	150 x 150 x 75mm Precast concrete inspection eye maker slab set in ground	No 2,00
21	100mm Cast iron "ABC" Cleaning eye	No 2,00
<u>SANITARY FITTINGS</u>		
The following in WASH HAND BASINS fixed complete in position and connected to services		

22	Vaal 'Hibiscus' lavatory basin 510 x 405mm white (code7051) bolted to wall using two 8mm bolts(code8446ZO). Pillar tap as cobra No. 114 with carina handle, basin waste, plug and chain plug and chain as cobra No. 301. C.P. bottle trap as cobra No. 340 with 75mm deep seal. Basin to be sealed with silicone at wall junction. Cold water pipe to be 15mm DIA. Copper and fitted with approved 'cobra' fullway bulcock.	No	1,00		
22	"Aquassive Code 755499" white vitreous china low level WC suite comprising washdown pan fitted with "De Luxe" heavy duty double flap white plastic seat and 6 liter cistern with flush pipe	No	2,00		
23	Bottle trap as 'cobra' No.340 with 75mm deep seal	No	1,00		
24	15mm castle or other approved ballostop	No	1,00		
	The following in WC suite complete				
25	Vaal 'Hibiscus' close coupled 104 degree outlet open rim washdown pan (code 772200) and matching 9 litre cistern (code 710531) complete with heavy duty lid and fitments.	No	4,00		
26	15 mm Chromium plated ballostop	No	4,00		
	<u>WASTE UNIONS ETC</u>				
	Cobra Watertech or equal approved				
27	32mm 301 CP basin waste union	No	3,00		
	<u>TAPS, VALVES, ETC.</u>				
	Cobra Watertech or equal approved				
28	Cobra Carina 214CA-20 Pillar tap Cold water only to basin and 32 mm chromium plated waste union with backnut, chain and vulcanite plug	No	3,00		

29	40 x 40mm Butyl rubber "P" OR "S" trap jointed to waste outlet fitting and to Upvc pipe including clamps	No	4,00	
	Brass			
30	15mm Stopcock	No	4,00	
	<u>SANITARY PLUMBING</u>			
	<u>EXTRA OVER UPVC PIPES FOR THE FOLLOWING FITTINGS</u>			
31	50mm Pipes	m	5,00	
32	110mm Pipes	m	5,00	
	Extra over uPVC pipes for fittings			
33	50mm Bend	No	10,00	
34	110mm Bend	No	4,00	
35	110mm Pan connector	No	4,00	
36	50mm Access bend	No	10,00	
37	110 mm Access bend	No	10,00	
38	110mm "GI Two-way" vent valve	No	4,00	
	<u>WATER SUPPLIES</u>			
39	15 mm Copper (1.2 mm thick) service pipe average 350 mm girth, bent as necessary, including one straight copper to iron fitting (tap)	No	10,00	
40	22mm pipes	m	25,00	
41	22mm pipes laid in and including trenches	m	15,00	
	<u>Copper pipes (class 460/2) with soldered joints</u>			
42	15mm Pipes	m	15,00	
43	Extra over copper pipes (class 460/2) for capillary fittings			

44	15mm Fittings	No	9,00		
	<u>Taps, valves, etc.</u>				
45	15 mm Brass bibcock with hose connection and 1/2" threaded outlet	No	5,00		
46	15mm "1075" Chromium plated ballcock and joints to copper pipes	No	5,00		
47	15mm "131" brass stopcock and joints to copper pipes	No	5,00		
48	15mm "139" Chromium plated brass screw down underwall pattern stopcock with sliding wall flange and joints to copper pipes	No	7,00		
	<u>"Kwikot"</u>				
49	22mm Vacuum breaker and joints to copper pipes	No	6,00		
50	22mm "KH3.216" Pressure valve with integral isolating valve and expansion relief valve and joints to copper pipes	No	4,00		
	<u>ELECTRICAL WATER HEATERS</u>				
	<u>"Kwikot"</u>				
51	150 Liter integrated "Thermosiphon" solar type hot water heater with collector panel, three kilowatt element, draincock and safety valve, fixed on gyser tray (gyser tray elsewhere) in roof space and joints to copper pipes, all in accordance with the electrical engineer's specification(Electrical Connection by Electrician)	No	2,00		
52	Polyethylene geyser tray to suit 150 liter horizontal geyser in roof space with socketed connection for overflow pipe	No	2,00		
	<u>TESTING</u>				
	<u>Testing</u>				

	<u>Allow for testing the whole of the Sanitary plumbing and Water supplies to the satisfaction of the architect and local authorities. All defective work is to be taken out and replaced at the contractor's expense and the whole retested until found satisfactory</u>			
	<u>LAGGING</u>			
	25mm Thick fibre glass insulation wrapped around pipes and fittings including straps, etc.			
53	15mm Pipes	m	10,00	
	<u>RAINWATER STORAGE TANKS</u>			
	<u>SOIL DRAINAGE</u>			
	uPVC gulleys			
54	110 mm Gulley not exceeding 500mm deep	No	1,00	
	<u>Sundries</u>			
	Testing			
55	Testing water pipe system	Item	1	
	<u>FIRE APPLIANCES ETC</u>			
56	4.5kg "DCP" dry chemical powder fire extinguisher with hook of 120 x 20 x 2mm mild steel strip bent to form hook screwed to and including 520 x 100 x 22mm varnished meranti block six times plugged and screwed to wall	No	1	
57	190 x 190mm ABS plastic symbolic safety sign type FB2 plugged and screwed to wall	No	1	
	<u>HOLES ETC</u>			
	Core drilling hole not exceeding 50mm diameter			
58	220mm Face brick wall	No	1	

	Core drilling hole exceeding 50mm and not exceeding 100mm diameter			
59	220mm Face brick wall	No	1	
TOTAL FOR PLUMBING AND DRAINAGE				
BILL No.14				
GLAZING				
NOTE: The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities				
<u>Float glass</u>				
The term "float glass" is used for monolithic annealed glass				
<u>Laminated glass</u>				
Laminated glass to have polyvinyl butyral (PVB) interlayer(s)				
TOPS, SHELVES, DOORS, MIRRORS, ETC.				
450 x 600 mm HIGH MIRROR WITH POLISHED EDGES, SCREWED TO WALL WITH CHROME DOMED SCREWS,				
1	Mirror 450 x 600 mm high with four screws	No	2,00	
GLAZING TO STEEL WITH PUTTY				
6mm Clear float glass				
2	Panes exceeding 0,1m ² and not exceeding 0,5m ²	m ²	2,50	
TOTAL FOR GLAZING				
BILL No. 15				
PAINTING				

NOTE: The tenderer is referred to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities

PREPARATORY WORK TO EXISTING WORK

Previously painted plastered surfaces

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

Previously painted metal surfaces

Surfaces shall be thoroughly rubbed and cleaned down.
Blistered or peeling paint shall be completely removed down to bare metal

Previously painted wood surfaces

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

PAINT SPECIFICATIONS

All painting shall be done in accordance with specifications unless otherwise described

COLOURS

Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091

ON FLOATED PLASTER

	One coat primer and two coats interior quality PVA emulsion paint light tone colour			
1	On internal walls	m ²	67,19	
2	On ceilings and cornices	m ²	67,19	
	<u>ON FIBRE CEMENT</u>			
	<u>One Coat alkali-resistant primer to SABS 1416 and two finishing coats "Plascon wall 'n All" acrylic paint to SABS 1586 Grade 1</u>			
3	On fascias and barge boards	m ²	33,54	
	<u>ON METAL</u>			
	<u>One coat calcium plumbate primer to SABS 912, one coat undercoat and two coats :plascon Velgvago" satin polyurethane enamel paint to SABS 630 Type</u>			
4	On door frames ect	m ²	8,00	
	<u>ON WOOD</u>			
	<u>One coat "Plascon Professional" wood primer to SABS 678 Type III and two coats "Plascon Velvaglo" satin polyurethane enamel paint to SABS 630 Type I</u>			
5	On doors	m ²	20,00	
6	On roof timbers at eaves and verges	m ²	35,54	
	<u>TOTAL FOR PAINTING</u>			
	<u>PROVISIONAL SUMS</u>			
	<u>NOTE:</u> The tenderer is refered to the relevant clauses in the Standard Preambles to All Trades and the Supplementary Preambles which are incorporated in these Bills of Quantities			

1	Allow an amount for the supply of security office chairs, for an amount of R 2 000	Item	1,00		
	<u>ELECTRICAL WORKS</u>				
2	Supply and install electrical fittings, including galvanised steel conduit boxes including, 20mm conduit, 25mm diameter conduit, 16A two-way light switches, sockets outlets with white covers, and switch flush mounted in conduit box in wall, plugs tops, isolators, luminaries with lamps transformers, and distribution box ect.	item	1,00		
	<u>MECHANICAL WORKS</u>				
3	Supply and install seven (7) 99000 Btu split unit aircons	item	1,00		
TOTAL PROVISIONAL SUMS					
<u>SUMMARY SECTION</u>					
1	EARTHWORKS				
2	CONCRETE FORMWORK & REINFORCEMENT				
3	MASONRY				
4	WATERPROOFING				
5	ROOF COVERINGS				
6	CARPENTRY & JOINERY				
7	CEILINGS				
8	IRONMONGERY				
9	METALWORK				
10	PLASTERING				
11	TILING				
12	PLUMBING AND DRAINAGE				
13	GLAZING				
14	PAINTING				
15	PROVISIONAL SUMS				
TOTAL SUM					

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE
	<u>BILL NO.1</u>			
	<u>EARTHWORKS (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Carting away of excavated material</u>			
	<u>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</u>			
	<u>SITE CLEARANCE ETC</u>			
	User Note:			
	Where the value is of significance, the removal of hedges etc shall be given separately in meters or in number			
	Site clearance			
	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc			
1		m2	116	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	36	
4	Reduced levels	m3	6	
	<u>Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 98% Mod. AASHTO density</u>			
	Exceeding 500mm and not exceeding 1500mm deep for placing and removing formwork to walls 300mm away from excavated face (plinth)			
5		m2	4	
	<u>Extra over trench and hole excavation in earth for excavation in</u>			
6	Soft rock	m3	4	
7	Hard rock	m3	2	

<u>Extra over all excavations for carting away</u>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	18
<u>Risk of collapse of excavations</u>			
9	Sides of trench and hole excavations exceeding 1,5m deep	m2	103
<u>Keeping excavations free of water</u>			
10	Keeping excavations free of all water other than subterranean water	Item	1
<u>FILLING, ETC</u>			
<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	20
<u>Coarse river sand filling supplied by the contractor</u>			
12	Under floors etc	m3	3
<u>Hardcore filling</u>			
13	Under floors etc	m3	6
<u>Compaction of surfaces</u>			
14	Compaction of ground surface under floors, etc. including grading, levelling and scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod. AASHTO	m2	60
<u>Prescribed density tests on filling</u>			
15	"Modified AASHTO Density" test	No	1
<u>SOIL POISONING</u>			
<u>Soil insecticide</u>			
16	To bottoms and sides of trenches etc	m2	139
17	Under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc. filling in furrows and ramming	m2	60
TOTAL EARTHWORKS			

BILL NO.2CONCRETE, FORMWORK AND REINFORCEMENTSUPPLEMENTARY PREAMBLESCost of tests

The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an 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

Formwork

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 Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES30MPa/19mm concrete

1	Strip footings	m3	9
2	Surface bed	m3	6

REINFORCED CONCRETE CAST ON/IN FORMWORK30MPa/19mm concrete

3	Plinth	m3	2
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TEST BLOCKS

4	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	5
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CONCRETE SUNDRIES

<u>Finishing top surfaces of concrete smooth with a wood float</u>			
5	Wood Float to Surface beds, slabs, etc	m2	29
<u>FORMWORK</u>			
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>			
<u>Smooth formwork to sides</u>			
6	Edges, risers, ends and reveals exceeding 300mm high or wide	m2	4
<u>REINFORCEMENT (PROVISIONAL)</u>			
7	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	29
<u>Mild tensile steel reinforcement to structural</u>			
8	Bars not exceeding 10mm diameter	t	0,5
<u>High tensile steel reinforcement to structural</u>			
9	Bars not exceeding 20mm diameter	t	2
TOTAL CONCRETE, FORMWORK AND REINF			
<u>BILL NO. 3</u>			
<u>MASONRY</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>BLOCKWORK</u>			
<u>Concrete masonry units</u>			
Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7 MPa			
<u>Wall ties for blockwork</u>			
Wall ties shall be polypropylene "Permaties" complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other			

Blockwork

Blockwork shall comply with SABS 0145 "Concrete Masonry Construction" Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole

Standard complementary blocks

Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary

FOUNDATIONS (PROVISIONAL)**BRICKWORK****Brickwork in foundations**

- | | | | |
|---|---|----|----|
| 1 | Brickwork of NFX bricks (14 Mpa nominal compressive strength in class 1 mortar) | m2 | 55 |
|---|---|----|----|

SUPERSTRUCTURE**BRICKWORK****Brickwork of NFP bricks in class II mortar****Face brickwork to be Corobrik**

- | | | | |
|---|---|----|----|
| 2 | Half brick walls in beamfilling | m2 | 9 |
| 3 | One brick wall | m2 | 15 |
| 4 | One brick walls of two half brick skins with inner skin bagged and sealed | m2 | 80 |
| 5 | One brick walls of two half brick skins with inner skin bagged and sealed (boundary wall) | m2 | 44 |

BRICKWORK SUNDRIES**2,5mm Brickwork reinforcement**

- | | | | |
|---|---|---|------|
| 6 | 150mm Wide reinforcement built in horizontally in foundations (Provisional) | m | 1086 |
| 7 | 150mm Wide reinforcement built in horizontally | m | 290 |

	<u>Joint forming material in movement joints</u>			
8	12mm Bitumen impregnated fibre board built in vertically between brickwall and concrete surfaces	m	33	
	<u>Turning pieces to lintels, etc.</u>			
9	220mm Wide turning piece to lintels etc	m	6	
	<u>Galvanised hoop iron cramps, ties, etc</u>			
10	30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end built into brickwork	No	23	
	<u>Air bricks</u>			
11	Set of two 229 x 152mm terra-cotta vermin proof air bricks	No	14	
	<u>FACEBRICK WORK</u>			
	<u>Face bricks to match existing and pointed with tinted recessed horizontal and vertical joints to match existing</u>			
12	Extra over brickwork for face brickwork in foundations laid on both sides of walls (Provisional)	m2	11	
13	Extra over brickwork for face brickwork	m2	29	
14	Extra over brickwork for face brickwork on both ends boundary wall	m2	87	
15	Extra over brickwork for brick-on-header course	m	23	
	<u>PAVING WORKS</u>			
	<u>Keeping excavations free of water</u>			
16	Keeping excavations free of water other than subterranean water	Item	1	
	<u>Filling supplied by the contractor under paved areas</u>			
17	Over site of 150mm thick G8 materials in accordance with SABS 1200 DM compacted to 93% AASHTO density (Sub-grade)	m3	7	
18	Over site of 150mm thick G6 materials in accordance with SABS 1200 DM compacted to 93% AASHTO density (Sub-grade)	m3	7	

19	Over site of 150mm thick G2 materials in accordance with SABS 1200 DM compacted to 93% AASHTO density (Sub-grade)	m3	7	
	<u>Compaction of surfaces</u>			
20	Compaction of ground surface under pavings etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 91% Mod AASHTO density	m2	44	
	<u>Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien</u>			
	248,6 g/l and atrasien 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m ²			
21	Under pavings (Certificate to be provided)	m2	44	
	<u>PRECAST CONCRETE PAVING BLOCKS</u>			
	Paving is to be laid in accordance with SABS 1200MJ, SABS 1058 and the Concrete Masonry Association's Specification			
	<u>Standard "Grey" or similar approved interlocking roadstone</u>			
	<u>paving on and including 25mm thick layer of river sand with</u>			
	<u>joints filled in with sand, compacted with a vibration roller</u>			
22	60mm Paving to walkway etc to falls	m2	44	
TOTAL MASONRY				
<u>BILL NO.4</u>				
<u>WATERPROOFING</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<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>DAMP-PROOFING OF WALLS AND FLOORS</u>				
<u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u>				
1	In walls	m2	4	
<u>One layer of 250 micron "Consol Plastics" or other</u>				
<u>equally approved waterproof sheeting sealed at laps</u>				
2	Under surface bed	m2	26	
<u>JOINT SEALANTS ETC</u>				
<u>"Sika" or other equally approved two-part grey</u>				
polysulphide sealing compound including backingcord, bond breaker, primer, etc.				
12 x 12mm In vertical expansion joints including raking out expansion joint filler as necessary				
3		m	33	
TOTAL WATERPROOFING				
<u>BILL NO.5</u>				
<u>ROOF COVERINGS ETC</u>				
<u>PREAMBLES</u>				
For preambles see "Model Preambles for Trades 2008" as issued by The Association of South African Quantity Surveyors				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Execution of Roof Works</u>				
The appointed contractor is to execute roof work at night only when the facility is not operational				
<u>CORRUGATED METAL SHEETING AND ACCESSORIES</u>				
Safintra 0,53mm thick SAFLOK 700 AZ150 G550 interlocking roof sheeting with Z275 spelter to both sides fixed to timber purlins (elsewhere) with SAFLOK 700 clips screw, all in accordance with manufacturer's recommendations and specifications. Colour to the approval of the Client/Principal Agent.				

1	Roof covering with pitch not exceeding 25 degrees	m2	49	
	<u>Sundries</u>			
2	Narrow flute eaves closures	m	21	
	<u>ROOF INSULATION</u>			
	<u>Sisalation FR430' heavy industrial grade reinforced aluminium foil and polyethylene insulation with fire retardant properties</u>			
	waterproofing lapped 140mm at all intersections as underlay to aluminium sheet metal roofing and supported on and including 1,6mm diameter galvanised wire supports spaced at 300mm centres and would around and srewed to steel or timber purlins including cutting and waste			
3	(measured nett)	m2	49	
TOTAL ROOF COVERINGS ECT				
	<u>BILL NO.6</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>PREAMBLES</u>			
	<u>For preambles see "Model Preambles for Trades 2008" as issued by The Association of South African Quantity Surveyors</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Particle board:</u>			
	<u>Particle board shall comply with the following specifications:</u>			
	a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type			
	<u>Joinery:</u>			
	Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc			
	Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes			
	<u>Fixing.</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	<u>PLATE NAILED TIMBER ROOF TRUSSES</u>			

CONSTRUCTION**ROOF ETC**

Sawn treated softwood grade V4

Roof construction to mono pitched roof 9480mm long x 2740mm wide x 1600mm high (17 degrees pitch) with 600mm overhang on both sides including trusses, runners, bracings etc (wall plates, elsewhere measured).

1	Item	1
2	No	22
3	m	22
4	m	11
5	m	88
6	m	22

EAVES, VERGES, ETC**Everite FC77 pressed fibre-cement**

7	m	9
8	m	22

SUNDRIES

9	m2	13
10	No	1408

TOTAL CAPENTRY AND JOINERY**BILL NO.7****CEILINGS, PARTITIONS AND ACCESS FLOORING****PREAMBLES**

For preambles see "Model Preambles for Trades 2008" as issued by The Association of South African Quantity Surveyors

<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions:</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete			
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 measured elsewhere			
<u>CEILINGS ETC</u>			
<u>"Aerolite" insulation</u>			
1	50mm Insulation closely fitted and laid on top of branderings between roof timbers etc	m2	22
<u>NAILED UP CEILINGS</u>			
<u>6mm "Nutec" Fibre cement</u>			
2	Nailed up Ceilings including 32 x 32mm sawn softwood branderings at 400mm centres	m2	22
3	Extra over ceiling for 900 x 600mm trap door of 32 x 44mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around	No	1
<u>"Rhino" gypsum plasterboard cornices</u>			
4	75mm Coved cornices	m	24
TOTAL CEILINGS, PARTITIONS AND FLOORING			
<u>BILL NO.8</u>			
<u>METALWORK</u>			
<u>PREAMBLES</u>			
The Tenderer is referred to the relevant clauses in the latest edition of the Model Preambles for Trades and to the Supplementary Preambles			
<u>SUPPLEMENTARY PREAMBLES</u>			

The Contractor must visit the site and acquaint himself fully with conditions and scope of alterations. Descriptions herein are brief and are to serve as a means of identifying work only. The full extent of work is to be assessed by the contractor on site.

Removal and reinstatement of existing work to be executed by the Contractor. Old materials from alterations, except where described to be re-used or handed over, as well as rubbish, etc. must be regularly carted from site and not be allowed to accumulate on or around the site. All primers, emulsion paints and enamels are to comply with the relevant SABS specifications. Paints etc. shall be suitable for the application on the surfaces to which they are being applied.

The paint and surface finishes specified herein are for normal applications as intended by the manufacturer. Should a finish be required for a surface other than that for which it would normally be used, then the specifier should contact the manufacturer for approval.

The final state of preparatory work to existing decorated surfaces shall in all cases produce in the finished decorated surfaces a condition similar to new work.

Fixing

Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc

GALVANISED STEEL GATES, SCREENS, ETC

Hot dipped galvanised steel gates

Double gate size 1760 x 1800mm high with 19mm dia. tubular steel infills @ 100mm centres welded to frames and 40 x 6mm horizontal support with and including frame 38 x 60 x 3mm tubular gate surround concealed fixed wall with raw bolts.

1

No

1

PRESSED STEEL LOUVERED DOORS AND

FRAMES

The following in galvanised mild steel louvered doors

<p>2 Steel louvred double door Type DVA including door frame, louvred doors, padlatch and hinges and fixed to brickwork. Size 1830 x 2135mm high</p>	<p>No</p>	<p>3</p>	
<p>METAL WORK</p>			
<p><u>BILL NO.9</u></p>			
<p><u>PLASTERING</u></p>			
<p><u>PREAMBLES</u></p>			
<p>The Tenderer is referred to the relevant clauses in the latest edition of the Model Preambles for Trades and to the Supplementary Preambles</p>			
<p>SUPPLEMENTARY PREAMBLES</p>			
<p>The Contractor must visit the site and acquaint himself fully with conditions and scope of alterations. Descriptions herein are brief and are to serve as a means of identifying work only. The full extent of work is to be assessed by the contractor on site.</p>			
<p>Removal and reinstatement of existing work to be executed by the Contractor. Old materials from alterations, except where described to be re-used or handed over, as well as rubbish, etc. must be regularly carted from site and not be allowed to accumulate on or around the site.</p>			
<p>All primers, emulsion paints and enamels are to comply with the relevant SABS specifications.</p>			
<p>Paints etc. shall be suitable for the application on the surfaces to which they are being applied.</p>			
<p>The paint and surface finishes specified herein are for normal applications as intended by the manufacturer. Should a finish be required for a surface other than that for which it would normally be used, then the specifier should contact the manufacturer for approval.</p>			
<p>The final state of preparatory work to existing decorated surfaces shall in all cases produce in the finished decorated surfaces a condition similar to new work.</p>			
<p><u>INTERNAL PLASTER</u></p>			

<u>Cement plaster on brickwork</u>			
1	15mm thick On walls	m2	75
<u>GRANOLITHIC</u>			
<u>Untinted granolithic, on concrete</u>			
2	Average 25mm thick on floors with upper surface to falls and current	m2	22
3	80mm High coved skirtings	m	24
TOTAL PLASTERING			
<u>BILL NO.10</u>			
<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
<u>PREAMBLES</u>			
For preambles see "Model Preambles for Trades 2008" as issued by The Association of South African Quantity Surveyors			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Septic Tanks</u>			
Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions			
<u>Exposed Concrete Surfaces</u>			
<u>Exposed surfaces of concrete stormwater channels, cover slabs, inspection eve marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster</u>			
<u>Excavations</u>			
No claim for rock excavation will be entertained unless the contractor has timeously notified the Quantity Surveyor thereof prior to backfilling			
"Intermediate material" and "Hard rock" shall be as defined in "Earthworks"			
<u>Laying, Backfilling, Bedding, Etc of Pipes</u>			

Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturer's instructions

Where no manufacturer's instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200

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)

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)

Unless otherwise described bedding of rigid pipes shall be class B bedding

Guardhouse Kitchenette Facilities

Flush Pans

Flush pans shall have straight or side outlets and "P" or "S" traps as necessary

Stainless Steel Basins, Sinks, Wash Troughs, Urinals, Etc Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable

Waste Unions

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings

Steel Sectional Water Tanks

"Densyl" Petrolatum Anti-Corrosion Tape As Manufactured by Denso SA (Pty) Ltd

Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described

Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "layflat" sheeting, securing of same, etc

Prices for wrapping of pipes shall include for all work as described to couplings in the length

RAINWATER DISPOSAL

<u>0.7mm Baked enamel on aluminium gutter system in continuous lengths</u>			
1	100 x 125mm Ogee eaves gutters	m	11
2	Extra over eaves gutter for stopped end	No	2
3	Extra over eaves gutter for angle	No	2
4	Extra over eaves gutter for outlet for 100 x 75mm down pipe	No	2
5	100 x 75mm Down pipes	m	6
6	Extra over rainwater pipe for offset bend	No	2
7	Extra over rainwater pipe for shoe	No	2
<u>SOIL DRAINAGE</u>			
<u>uPVC pipes in class C bedding:</u>			
8	110mm Pipes vertically or ramped to cleaning eyes (no excavation)	m	6
9	110mm Pipes laid in and including trenches not exceeding 1m deep	m	18
<u>Extra over uPVC pipes for fittings:</u>			
10	110mm Bend	No	10
11	110mm Access Junction	No	4
12	110mm Rodding eye cap	No	1
<u>Sundries</u>			
13	Excavate for and construct gulley comprising of 110mm uPVC gulley trap with 190mm diameter Upvc hopperhead with pvc grating, all set in mass concrete and not exceeding 500mm deep. The top of the gulley 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	1
14	Testing soil drainage pipe system	No	1
<u>SANITARY FITTINGS</u>			
<u>"Franke" stainless steel or other approved</u>			

15	WB001 Grade 18/10 stainless steel wash hand basin with gallows brackets, rubber trap and chrome plated waste union	No	1		
	<u>TRAPS ETC</u>				
	<u>Floor traps</u>				
16	"Herbish" or other equally approved HB 200 V (H) NW100 stainless steel floor drain connected uPVC pipes all in accordance to manufacturer's details	No	2		
	<u>TAPS, VALVES, ETC</u>				
17	"Cobra Watertech" or equally approved Cobra" or other similar approved basin 211-20 pillar tap	No	1		
18	"Cobra" or other similar approved 15mm brass hose bib tap	No	1		
	<u>SANITARY PLUMBING</u>				
	<u>uPVC soil and vent pipes</u>				
19	50mm pipes	m	2		
20	110mm pipes	m	20		
21	50mm pipes chased into concrete surface beds	m	5		
	<u>Extra over uPVC soil and vent pipes for fittings</u>				
22	50mm BSP adaptor	No	1		
23	50mm Bend	No	2		
24	50mm Access bend	No	1		
25	110mm Access bend	No	2		
26	110mm Bend	No	2		
	<u>Testing</u>				
27	Testing waste pipe system	No	1		
	<u>WATER SUPPLIES</u>				
	<u>Class 0 copper pipes with brass compression couplings</u>				
28	15mm Pipes	m	5		

29	15mm Pipes chased into brickwork including brown paper lagging	m	5	
	<u>Extra over Class 0 copper pipes for capillary fittings</u>	H3		
30	15mm Fittings	No	5	
	<u>Extra over Class 0 copper pipes for brass compression fittings</u>	H3		
31	15mm Fittings	No	7	
	<u>Flexible service pipes</u>			
32	15mm Service pipe 350mm girth	No	1	
	<u>Testing</u>			
33	Testing water pipe system	No	1	
	<u>PRECAST CONCRETE STORM WATER CHANNELS</u>			
34	Concrete channels including earthworks, concrete, reinforcement, formwork, waterproofing etc as per the engineer's design	m	12	
TOTAL PLUMBING AND DRAINAGE				
	<u>BILL NO.11</u>			
	<u>PAINTWORK</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades 2008" as issued by The Association of South African Quantity Surveyors			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items or materials</u>			
	Proprietary items or materials where specified are to be of the brand specified - or other approved - by the Head - Works			
	SABS Specifications Alkali resistant plaster primer : SABS 1416			
	Matt or eggshell decorative paint for interior works : SABS 515			
	High gloss enamel paint : SABS 630 Grade I			
	Oil gloss enamel paint : SABS 631			
	Primers for wood for external work : SABS 678			
	Type I, Primers for wood for internal work : SABS 678 Type III			

Zink chromate primers for steel : SABS 679 Type I

Undercoats for paints (except emulsion paint) :

SABS 681 Type Aluminium paint : SABS 682 Grade

II, Roof paints : SABS 683 Type B (Oil based)

Roof paints : SABS 940 (Emulsion based) Structural

steel pain : SABS 684 Type B

Wash primer (metal etch) : SABS 723

Varnish for interior use : SABS 887 Type I

Emulsion paints : SABS 1227 (Textured: Internal /
External)

Emulsion paints : SABS 1586 (Gloss, semi-gloss;
matt; internal / external)

Calcium plumbate primer : SABS 912

Road marking paint : SABS 5731 Part I

<u>PAINTWORK ETC TO NEW WORK</u>			
<u>ON FLOATED PLASTER</u>			
<u>One coat primer and two coats interior quality PVA emulsion paint</u>			
<u>One coat alkali resistance primer, one coat universal undercoat and two finishing coats of PVA emulsion paint on</u>			
1	On internal walls	m2	75
<u>ON PLASTERBOARD SURFACES</u>			
2	On ceilings	m2	22
3	Fascia and barge boards	m2	16
TOTAL PAINTWORK			

SUMMARY PAGE

- 1 EARTHWORKS
- 2 CONCRETE, FORMWORK & REINFORCEMENT
- 3 MASONRY
- 4 WATERPROOFING
- 5 ROOF COVERING
- 6 CAPENTRY AND JOINERY
- 7 CEILINGS, PARTITIONS AND ACCESS FLOORING
- 8 METAL WORKS
- 9 PLASTERING
- 10 PLUMBING AND DRAINAGE
- 11 PAINTWORK

- TOTAL**

<u>SUMMARY</u>			
1	PRELIMINARIES		
2	MAIN BUILDING TOTAL		
3	WASTE AREA TOTAL		
4	GUARD HOUSE TOTAL		
	TOTAL		
	Add: VAT		
Total offer carried to form of Tender			

ANNEXURE 2: CURRICULUM VITAE TEMPLATE



CURRICULUM VITAE TEMPLATE

1. Personal Details

Name:	
Date of Birth:	
Current Employer:	
Current Position Held:	
Period with Current Employer: (mm-yyyy to mm-yyyy)	
Previous Employer:	
Position Held with Previous Employer:	
Period with Previous Employer: (mm-yyyy to mm-yyyy)	

2. Education (Degrees, Diplomas, BTech and Post Graduate Qualifications ONLY)

Qualification	Year Obtained	Institution



3. Professional Registration/s

Professional Body	Year Obtained	Expiry Date	Category of Professional Registration

4. Relevant Project Experience (Provide a maximum of 3 relevant projects)

Name of Project	Client	Project Start Date	Project End Date	Project Value	Role on Project