



**Construction of Moletji Cluster Office Project No.
MLM/TECH/06/2019/20**

Item No	Unit	Quantity	Rate	Amount
SECTION 1				
BILL No.1				
<u>PRELIMINARIES</u> (PROVISIONAL SUM)				
1		Item		
2	Prov. SUM	1	17500	17500
3	%	17500		
4	Prov. SUM	1	5000	5000
5	%	5000		
6	No.	1		
Carried to Final Summary				R

Construction of Moletji Cluster Office

Item No	Unit	Quantity	Rate - R	Amount
SECTION No.2 - OFFICE BLOCK				
BILL No.1				
<u>FOUNDATIONS (PROVISIONAL)</u>				
NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.104 for CPAP formula				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Nature of ground</u> The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock".				
<u>Carting away of excavated material</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively from stock piles situated on the building site.				
EARTHWORKS				
<u>EXCAVATION, FILLING, ETC.</u>				
<u>Excavation in earth not exceeding 2m deep</u>				
1	Trenches	m ³	30	
<u>Extra over trench and hole excavations in earth for excavation</u>				
2	Soft rock	m ³	7	
3	Hard rock	m ³	3	
<u>Extra over all excavations for carting away</u>				
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	20	
<u>Compaction of surfaces</u>				
5	Rip compaction of ground surface under surface beds etc by wetting and compacting to 935% Mod Aashto density at optimum moisture content in layers not exceeding 150mm	m ³	211	
<u>Prescribed density tests on filling</u>				
6	"Field Density" test including "Optimum moisture content" (4 readings/test)	No.	2	
<u>SOIL POISONING</u>				
<u>Soil insecticide</u>				
7	Under floor surface beds etc including forming and poisoning shallow furrows against foundation walls etc, filling furrows and ramming	m ²	211	
Carried Forward to Summary of Section No.2			R	

SECTION 2: OFFICE BLOCK

Bill No.1

Earthworks (Provisional)

Construction of Moletji Cluster Office

Item No	Unit	Quantity	Rate	Amount
<p>SECTION No.2: OFFICE BLOCK BILL No.2</p> <p><u>CONCRETE & FORMWORK</u></p> <p>NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.110 for CPAP formula purposes</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G, shall include the cost of providing cube moulds necessary for 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 seperately)</p> <p><u>Formwork</u></p> <p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in 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 untill the newly constructed work is able to support itself.</p> <p>Formworks to soffits of solid etc shall remain deemed to be slabs not exceeding 250mm thick unless otherwise described.</p> <p>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and cost thereof shall be deemed to be included in allowance for taking the risk of collapse of sides of excavations, provision for which is made in "Earthworks".</p> <p style="text-align: center;">Carried forward</p>			R	

Section No.2 OFFICE BUILDING

Bill No.2

Concrete and Formwork

Costruction of Moletji Cluster Office

Item No		Unit	Quantity	Rate R	Amount
	Brought Forward				
	<u>CONCRETE</u>				
	<u>25MPa/19mm Concrete</u>				
1	Strip footing	m ³	0		
2	Surface beds	m ³	19		
	<u>TESTS BLOCKS</u>				
	<u>Making and testing 150 x 150 x 150mm concrete strength test cube</u>				
3	test cube	No.	5		
	<u>COCRETE SUBDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
4	Surface beds, ramps etc, to falls	m ²	211		
	<u>MOVEMENT JOINTS ETC</u>				
	<u>Expansion joints with 15mm softboard between vertical concrete and brick surfaces</u>				
5	Not exceeding 300mm high to edges of surface beds	m	99		
	Carried Forward to Summary of Section No.2			R	

Construction Moletji Cluster Office

Item No	Unit	Quantity	Rate	Amount
Section No.2 OFFICE BUILDING				
BILL No.3				
<u>MASONRY</u>				
NOTE Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.116 for CPAP formula purposes				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>BRICKWORK</u>				
<u>Sizes in description</u> Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of the brick.				
<u>Face bricks and Semi-face bricks</u> Bricks shall be ordered timeously to obtain uniformity in size and colour.				
<u>Pointing</u> Descriptions of recessed pointing to fair face brickwork and face brick shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.				
<u>SUB-STRUCTURE</u>				
<u>Brickwork of NFX bricks in class II mortar</u>				
1	Half brick walls	m ²	5	
2	One brick walls	m ²	4	
<u>SUPER STRUCTURE</u>				
<u>Brickwork of NFP bricks in class II mortar</u>				
3	Brick piers	m ³	2	
4	Half brick walls in beamfilling	m ²	30	
5	Half brick walls in beamfilling	m ²	211	
6	One brick walls	m ²	228	
<u>BRICKWORK SUNDRIES</u>				
<u>Brickwork reinforcement</u>				
7	75mm Wide reinforcement built in horizontally	m	1016	
8	150mm Wide reinforcement built in horizontally	m	976	
<u>Pre-stressed fabricated lintels</u>				
9	110 x 75mm Lintels in lengths not exceeding 3m	m	60	
<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.	40	
Carried Forward			R	

Construction of Moletji Cluster Office

Item No		Unit	Quantity	Rate	Amount
	Brought Forward				R
	<u>FACE BRICKWORK</u>				
	<u>Face bricks (Prime Cost amount R4 500.00/1000) pointed with flush horizontal and vertical joints</u>				
11	Extra over brickwork for external face brickwork	m ²	225		
	<u>Brick-on-edge header and roller course copings, sills, etc with recessed joints on all external exposed faces</u>				
12	220mm Wide sill set sloping and slightly projecting pointed on top and front edge	m	28		
	Carried Forward to Summary of Section No.2			R	

Section No.2 OFFICE BUILDING

Bill No.3

Masonry

Construction of Moletji Cluster Office

Item No	Unit	Quantity	Rate	Amount
Section No.2 OFFICE BUILDING BILL No.4				
<u>WATERPROOFING</u>				
NOTE Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.120 for CPAP formula purposes				
<u>DAMP-PROOFING OF WALLS AND FLOORS</u>				
<u>One layer of 375 micron "Consol Plastics Brikqrip DPC" embossed damp proof course</u>				
1	m ²	31		
2	m ²	211		
Carried Forward to Summary of Section No.2				R

Construction of Moleji Cluster Office

Item No		Unit	Quantity	Rate	Amount
Section No.2 OFFICE BUILDING BILL No.5					
<u>ROOF COVERINGS, etc</u>					
NOTE Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.124 for CPAP formula purposes					
<u>TILED ROOF COVERING AND ACCESSORIES</u> <u>420 x 332mm "Marley" concrete roof tiles nailed with no-corrosive tile nails to 38 x 38mm sawn softwood battens at 330mm centres on Marlev under tile membrane</u>					
1	Roof covering with pitch of 22° (not exceeding 25°)	m ²	300		
2	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour	m	30		
3	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour	m	35		
Carried Forward to Summary of Section No.2					R <input type="text"/>

Section No.2 OFFICE BUILDING

Bill No.5

Roof Coverings, etc

Construction of Moletjie Cluster Office

Item No	Unit	Quantity	Rate	Amount
<p>Section No.2 OFFICE BUILDING BILL No.6</p> <p><u>CARPENTRY AND JOINERY</u></p> <p>NOTE Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.126 for CPAP formula purposes</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Particle board:</u></p> <p>Particle board shall comply with the following specifications a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type</p> <p><u>Joinery</u> Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc. Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.</p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><u>Decorative laminate finish</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p><u>ROOFS, ETC</u></p> <p><u>Plate nailed timber roof truss construction</u></p> <p>* The following is applicable in respect of roof trusses: * Trusses are at maximum 1050mm centres * Ceilings are generally 6,4mm gypsum plasterboard on 38 x 38mm brandering * All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 / SABS 1245 * Metal connector plates shall have a minimum yield strength of 228MPa and a minimum ultimate tensile strength of 330MPa with hot-dip galvanised finish * All joints to be close fitted butt joints * Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers' Certificate upon completion of installation * The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on * Tenderes must study the roof plan and sections as provided and obtain prices from qualified and registered roof truss supplier as no claim in this regards will be entertained</p>				

Section No.2 OFFICE BUILDING
 Bill No.6
 Carpentry & Joinery

Construction of Moletji Cluster Office

Item No		Unit	Quantity	Rate	Amount
	<u>Sawn Softwood</u>				
1	38 x 114mm Wall plates	m	99		
2	Design, manufacture, supply and deliver on site, plate nailed roof construction to the office block size 250m ² overall on plan consisting of double pitch roof trusses, 1800mm high (extreme), including all necessary purlins, runers, bracing	L/Sum	1		
	<u>Sundries</u>				
3	Two coats creosote on sawn timbers	m ²	19		
	<u>DOORS, ETC</u>				
	<u>Wrought doors hung to steel frames</u>				
4	44mm "TDM" framed and ledged door 813 x 2 032mm high	No.	2		
	<u>Semi-solid flush panel masonite door hung to steel frame</u>				
5	40mm door 813 x 2 032mm High	No.	17		
6	40mm door 813 x 2 032mm High	No.	1		
7	40mm Double door 1500 x 2 032mm High	No.	1		
	Carried Forward to Summary of Section No.2			R	

Section No.2 OFFICE BUILDING
 Bill No.6
 Carpentry & Joinery

Constructio n of Moletji Cluster Office

Item No		Unit	Quantity	Rate	Amount
Section No.2 OFFICE BUILDING BILL No.7					
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>					
NOTE Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.129 for CPAP formula purposes					
<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 given elsewhere					
<u>NAILED UP CEILINGS</u>					
<u>4mm "Fibre cement" ceiling board with H-type pressed steel jointing strips</u>					
1	Ceilings including 38 x 38mm sawn softwood brander at min. 400mm centres	m ²	211		
2	Extra over ceiling for 650 x 650mm trap door of 38 x 50mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No.	2		
3	<u>"Rhino" gypsum plasterboard comices</u> 75mm Coved cornices	m	275		
4	"Aerolite" or similar and approved insulation 100mm thick Insulation closely fitted and laid on top of brander of ceiling	m ²	211		
Carried Forward to Summary of Section No.2					

Section No.2 OFFICE BUILDING
 Bill No.7
 Ceilings, Partitions and Access flooring

Constructio n of Moletji Cluster Office

Item No		Unit	Quantity	Rate	Amount
	Section No.2 OFFICE BUILDING				
	BILL No.8				
	<u>IRONMONGARY</u>				
	NOTE Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.132 for CPAP formula purposes				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Finishes to ironmongary</u> Where applicable finishes to ironmongary are indicated by suffixes in according with the following list BS - Satin bronze lacquered, CH - Chromium plated, SC - Satin chromium plated, SE - Silver enamelled, GE - Grey enameeled, AS - Anodised silver, AB - Anodised bronze, AG - Anodised gold, ABL - Anodised black, PB - Polished brass, PL - Polished and lacquered, PT - Epoxy coated, SD - Sanded, NP - Nickle plated				
	<u>HINGES, BOLTS, ETC.</u>				
1	150mm Brass barrel bolt	No.	21		
	<u>LOCKS</u>				
	<u>"Mazac Tarpon" or similar approved</u> <u>"LA952/4L" four lever lockset and handles with chrome plated finish</u>				
2		No.	21		
	<u>LETTERS, NAMEPLATES, ETC</u>				
	<u>"Union" or similar and approved</u>				
3	250 x 300mm Female Toilet Signage	No.	2		
4	250 x 300mm Male Toilet Signage	No.	2		
5	250 x 300mm Paraplegic Toilet Signage	No.	1		
	<u>BATHROOM FITTINGS</u>				
	<u>"Nampak" or similar and approved</u>				
6	"TR2" lockable toilet roll holder plugged	No.	6		
	<u>"Stiebel Eltron" or similar and approved</u>				
7	"SDDS" soap dispenser plugged	No.	6		
	<u>SUNDRIES</u>				
	<u>"Union" or similar and approved</u>				
8	"AL8730AS" door stop plugged	No.	21		
	Carried Forward to Summary of Section No.2				

Construction of Moletji Cluster Office

Item No	Unit	Quantity	Rate	Amount
Section No.2 OFFICE BUILDING BILL No.9				
<u>METALWORK</u>				
NOTE Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.136 for CPAP formula purposes				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Descriptions</u> Descriptions of bolts shall be deemed to include nuts and washers. Descriptions of expansion anchors and bolts and chemical anchors and bolts, shall be deemed to include nuts, Metalwork described a s"holed or bolt(s)" shall be deemed to exclude the bolts unless otherwise described.				
<u>PRESSED STEEL DOOR FRAMES</u>				
<u>1,2mm Double rebated frames suitable for half brick walls</u>				
1	No	17		
<u>1,2mm Double rebated frames suitable for one brick walls</u>				
2	No	3		
3	No	1		
<u>STEEL WINDOWS, DOORS, ETC.</u>				
<u>Standard residential windows with type "B2" burglar bars to opening and fixed sections</u>				
4	No	4		
5	No	5		
6	No	8		
7	No	2		
8	No	8		
<u>High power coated aluminium doors complete including glazing, locks etc - colour to Architect</u>				
9	No	2		
Carried Forward to Summary of Section No.2				

Section No.2 OFFICE BUILDING
 Bill No.9
 Metalwork

Constructio n of Moletji Cluster Office

Item No		Unit	Quantity	Rate	Amount
Section No.2 OFFICE BUILDING BILL No.10					
<u>PLASTERING</u>					
NOTE Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.142 for CPAP formula purposes					
<u>SCREEDS</u>					
<u>1:4 Cement plaster screeds, wood floated on concrete</u>					
1	30mm Thick on floors and landings	m ²	211		
<u>INTERNAL PLASTER</u>					
<u>Cement plaster on brickwork</u>					
2	On walls	m ²	651		
3	On narrow widths	m ²	11		
Carried Forward to Summary of Section No. 2					R

Constructio n of Moletji Cluster Office

Item No		Unit	Quantity	Rate	Amount
	<p>Section No.2 OFFICE BUILDING BILL No.11</p> <p><u>TILING</u> NOTE Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.144 for CPAP formula purposes</p> <p><u>SUPPLEMENTARY PREAMBLES</u> <u>Descriptions</u> Unless described as "fixed with adhesive to plaster" descriptions of tiling on brick or concrete walls, colimns, 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.</p> <p><u>WALL TILING</u> <u>200 x 200 x 6mm Ceramic tiles (PC Amount R100.00/m²) fixed with adhesive to plaster</u></p> <p>1 On walls m² 149 2 On narrow widths m² 5</p> <p><u>FLOOR TILING</u> <u>300 x 300mm Ceramic tiles (PC Amount R150/m²) fixed with adhesive to bedding and flush pointed with tinted waterproof jointing compound</u></p> <p>3 On floors m² 138 4 On skirting m 181</p> <p><u>600 x 600mm Porcelain tiles (PC Amount R150/m²) fixed with adhesive to bedding and flush pointed with waterproof compound</u></p> <p>5 On floors m² 73 6 On skirting m 62</p>				11
	Carried Forward to Summary of Section No.2				

Construction of Moletjie Cluster Office

Item No	Unit	Quantity	Rate	Amount
<p>Section No.2 OFFICE BUILDING BILL No.12</p> <p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p>NOTE Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.146 for CPAP formula purposes</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>"Polycop" polypropylene pipes:</u></p> <p>Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "fast-fuse" heat and welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated.</p> <p>Pipes shall be firmly fixed to walls etc. with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p>All pipe diameters are normal external.</p> <p><u>Concrete Pipes</u></p> <p>Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.</p> <p><u>uPVC Pipes and fittings</u></p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed.</p> <p><u>uPVC pipes and fittings</u></p> <p>Pipes for water supply shall be of class stated.</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p> <p>Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints</p> <p><u>Copper pipes</u></p> <p>Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.</p> <p><u>Fixing of pipes</u></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level.</p> <p style="text-align: center;">Carried Forward</p>				12

Section No.2 OFFICE BUILDING

Bill No.12

Plumbing & Drainage

Construction of Moletjie Cluster

Item No		Unit	Quantity	Rate	Amount
	<p style="text-align: center;">Brought Forward</p> <p><u>Reducing fittings</u> Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers, he may do so on the understanding that no claim in this regard will be entertained. in the case of</p> <p><u>Wire gratings</u> Descriptions of gutter outlets etc. shall be deemed to include balloon wire gratings</p> <p><u>Exposed concrete surfaces</u> Exposed surfaces of concrete storm water channels. Cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc, shall be finished smooth with plaster.</p> <p><u>Excavations</u> Hard rock and soft rock shall be as defined in "Earthworks" - No allowance made for this in Bill.</p> <p><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.</p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200L: medium-pressure pipelines LD: Sewers LE: storm water drainage pipe trenches etc, shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB: Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1-3.4.1, 5.1-5.3 and 7 of SABS 1200LB: Bedding (Pipes). Unless otherwise described bedding of rigid shall be Class B bedding</p> <p><u>Flush pans</u> Flush pans shall have straight or side outlets and "P" or "S" traps as necessary.</p> <p><u>Stainless steel basins, sinks, wash troughs, urinals etc.</u> Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><u>Waste unions</u> Descriptions of waste unions shall be deemed to include tubber or vulcanite plugs and chains fixed to fittings</p> <p style="text-align: center;">Carried Forward</p>				

Section No.2 OFFICE BUILDING

Bill No.12

Plumbing & Drainage

Construction of Moletjie Cluster

Item No		Unit	Quantity	Rate	Amount
	Brought Forward				
	<u>Vitrified clay gulleys</u>				
1	100mm Dished gully not exceeding 1000mm deep	No	3		
	<u>SANITARY FITTINGS</u>				
	<u>"Franke" or similar and approved</u>				
2	Double bowl sink and drainer (PC Amount R2 200.00/unit) 18	No.	1		
	<u>"Vaal" or similar and approved</u>				
3	Ceramic washand basin (PC Amount R950.00/unit) with pede	No.	6		
4	Low level WC suite (PC Amount R800.00/unit) comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern with flash pipe.	No.	5		
5	"Pearl Paraplegic 7300SC white vitreous china floor mounted paraplegic washdown suite comprising washdown pan, heavy duty white plastic hinged seat with flap and chromium plated brass lever handle, regulation ball valve, unions for inlet and flush pipes, white porcelain enamelled drawn stell flush pipe with rubber joint and fixing pipe to cistern and pan and bolting seat pan.	No.	1		
6	"705427" Lavatera back entry urinal including waste, flash master, F/pipe and hangers	No.	2		
	<u>WASTE UNIONS, ETC.</u>				
	<u>"Cobra watertech" or similar and approved</u>				
7	32mm "301CP" Basin waste union	No.	6		
8	40mm "316CP" Sink waste union	No.	1		
	<u>TRAPS, ETC</u>				
	<u>"Marley" or similar and approved</u>				
9	32 x 50mm deep seal "P" or "S" trap	No.	6		
10	40 x 50mm deep seal "P" or "S" trap	No.	1		
	<u>TAPS, VALVES, ETC</u>				
	<u>"Cobra watertech" or similar and approved</u>				
11	Sink mixer chrome plated (PC Amount R800.00/unit)	No.	1		
12	Basin mixer tap chrome plated (PC Amount R250/unit)	No.	6		
13	15mm 126CP stopcock	No.	2		
14	PB1.10RB vacuum breaker	No.	1		
15	PA1.1RB "Kwikflo" 400kPa pressure reducing valve	No.	1		
	<u>SANITARY PLUMBING</u>				
	<u>uPVC pipes</u>				
16	50mm pipes	m	45		
17	110mm uPVC Pipes	m	10		
	<u>Extra over uPVC pipes for fitting</u>				
18	110mm Reducer	No.	5		
19	50mm Bend	No.	15		
20	50mm Junction	No.	10		
	Carried Forward				

Construction of Moletjie Cluster

Item No		Unit	Quantity	Rate R	Amount	
	Brought Forward					
21	110mm Pan connector	No.	6			
22	50mm Access bend	No.	6			
23	110mm Access bend	No.	12			
24	50mm Access junction	No.	10			
25	110mm Access junction	No.	6			
26	110mm Access bend with anti-syphon horn	No.	6			
26	50mm "GI Two-way" vent valve	No.	6			
	<u>Sundries</u>					
28	Testing waste pipe	Item	1			
	<u>WATER SUPPLIES</u>					
	<u>Class 0 copper pipes</u>					
29	15mm Pipes	m	75			
30	q5mm Pipes chased into brick walls	m	50			
31	22mm Pipes	m	75			
32	22mm Pipes chased into brick walls	m	50			
	<u>Extra over class 0 copper pipes for capillary fittings</u>					
33	15mm Fittings	No.	25			
34	22mm Fittings	No.	25			
	<u>Copper overflow and service pipes</u>					
35	15mm Service pipe 500mm girth	No.	1			
	<u>ELECTRIC WATER HEATER</u>					
36	150 Litre horizontal electric water heater in roof including standard galvanized sheet iron drip tray with overflow pipe to external wall (might change to Solar)	No.	1			
	<u>FIRE APPLIANCES Etc.</u>					
37	4,5kg Carbon dioxide fire extinguisher with brackets to wall	No.	6			
	<u>TESTING</u>					
38	Testing water pipe system	Item	1			
	Carried Forward to Summary of Section No.2				R	

Section No.2 OFFICE BUILDING

Bill No.12

Plumbing & Drainage

Construction of Moletjie Cluster Office

Item No		Unit	Quantity	Rate	Amount
	<p>Section No.2 OFFICE BUILDING BILL No.13</p> <p><u>GLAZING</u> NOTE Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.150 for CPAP formula purposes</p> <p><u>TOPS, SHELVES, DOORS, MIRRORS, Etc</u> <u>"Franke CHR401" 1mm 18/10 stainless steel with reflection polished surface, holed for and fixed with chromium plate dome capped mirror screws with rubber buffers to plug in brickwork</u></p>				
1	Mirror 400 x 600mm high with four capped mirror screws	No.	No. 6		
	Purchase, supply, deliver and install 4mm SABS approved window pane	m2	40		
	Carried Forward to Summary of Section No.2			R	

Construction of Moletjie Cluster Office

Item No	Unit	Quantity	Rate	Amount
Section No.2 OFFICE BUILDING				
BILL No.14				
<u>PAINTWORK</u>				
NOTE Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.152 for CPAP formula purposes				
<u>ON FLOATED PLASTER</u>				
<u>One coat alkali resistant primer, one undercoat and two coats interior QUALITY PVA emulsion paint</u>				
1	m ²	662		
<u>ON PLASTERBOARD</u>				
<u>One coat primer and two coats interior QUALITY PVA emulsion paint</u>				
2	m ²	211		
<u>ON METAL</u>				
<u>Spot priming defects in pre-primed surfaces with zinc chromate primer and applying one undercoat and two coats matt enamel paint on steel</u>				
3	m ²	67		
4	m ²	14		
<u>ON WOOD</u>				
<u>Three coats polyurethane semi-gloss varnish</u>				
5	m ²	10		
6	m ²	67		
Carried Forward to Summary of Section No.2				

Construction of Moletjie Office Cluster

Item No		Amount
	SECTION No.2: OFFICE BUILDING	
Bill No.	SECTION SUMMARY	
1	<u>Earthworks (Provisional)</u>	
2	Concrete & Formwork	
3	Masonry	
4	Waterproofing	
5	Roof Coverings, etc.	
6	Carpentry & Joinery	
7	Ceilings, Partitions & access flooring	
8	Ironmongery	
9	Metalwork	
10	Plastering	
11	Tiling	
12	Plumbing & Drainage (Provisional)	
13	Glazing	
14	Paintwork	
	Carried to Final Summary	

Construction of Moletjie Cluster

Item No	Unit	Quantity	Rate - R	Amount
SECTION No.3 -Guard House & Refuse Area				
BILL No.1				
<u>FOUNDATIONS (PROVISIONAL)</u>				
NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.104 for CPAP formula purposes				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Nature of ground</u> The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock".				
<u>Carting away of excavated material</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively from stock piles situated on the building site.				
EARTHWORKS				
<u>EXCAVATION, FILLING, ETC.</u>				
<u>Excavation in earth not exceeding 2m deep</u>				
1	Trenches	m ³	11	
<u>Extra over trench and hole excavations in earth for excavation</u>				
2	Soft rock	m ³	1	
3	Hard rock	m ³	1	
<u>Extra over all excavations for carting away</u>				
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	11	
<u>Compaction of surfaces</u>				
5	Rip compaction of ground surface under surface beds etc by wetting and compacting to 935% Mod Aashto density at optimum moisture content in layers not exceeding 150mm	m ²	16	
<u>Prescribed density tests on filling</u>				
6	"Field Density" test including "Optimum moisture content" (4	No.	2	
<u>SOIL POISONING</u>				
<u>Soil insecticide</u>				
7	Under floor surface beds etc including forming and poisoning shallow furrows against foundation walls etc, filling furrows and ramming	m ²	16	
8	To bottoms and sides of trenches	m ²	51	
Carried Forward to Summary of Section No.3			R	

SECTION 3: Guard House & Refuse area
 Bill No.1
 Earthworks (Provisional)

Construction of Moletjie Cluster

Item No	Unit	Quantity	Rate	Amount
<p>SECTION No.3: Guard House & Refuse area BILL No.2</p> <p><u>CONCRETE & FORMWORK</u></p> <p>NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.110 for CPAP formula purposes</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G, shall include the cost of providing cube moulds necessary for 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 seperately)</p> <p><u>Formwork</u></p> <p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in 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 untill the newly constructed work is able to support itself.</p> <p>Formworks to soffits of solid etc shall remain deemed to be slabs not exceeding 250mm thick unless otherwise described.</p> <p>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and cost thereof shall be deemed to be included in allowance for taking the risk of collapse of sides of excavations, provision for which is made in "Earthworks".</p> <p style="text-align: center;">Carried forward</p>			R	

Construction of Moletjie Cluster Office

Item No		Unit	Quantity	Rate R	Amount
Brought Forward					
CONCRETE					
<u>25MPa/19mm Concrete</u>					
1	Strip footing	m ³	6		
2	Surface beds	m ³	8		
TESTS BLOCKS					
3	Making and testing 150 x 150 x 150mm concrete strength tes	No.	2		
COCRETE SUBDRIES					
<u>Finishing top surfaces of concrete smooth with a wood float</u>					
4	Surface beds, ramps etc, to falls	m ²	16		
MOVEMENT JOINTS ETC					
<u>Expansion joints with 15mm softboard between vertical concrete and brick surfaces</u>					
5	Not exceeding 300mm high to edges of surface beds	m	5		
Carried Forward to Summary of Section No.3					

Construction of Moletjie Office Cluster

Item No	Unit	Quantity	Rate R	Amount
Section No.3: Guard House & Refuse area				
BILL No.3				
<u>MASONRY</u>				
NOTE Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.116 for CPAP formula purposes				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>BRICKWORK</u>				
<u>Sizes in description</u> Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of the brick.				
<u>Face bricks and Semi-face bricks</u> Bricks shall be ordered timeously to obtain uniformity in size and colour.				
<u>Pointing</u> Descriptions of recessed pointing to fair face brickwork and face brick shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.				
<u>SUB-STRUCTURE</u>				
<u>Brickwork of NFX bricks in class II mortar</u>				
1	m ²	13		
One brick walls				
<u>SUPER STRUCTURE</u>				
<u>Brickwork of NFP bricks in class II mortar</u>				
2		1		
Brick piers				
3	m ²	7		
Half brick walls in beamfilling				
4	m ²	4		
Half brick walls				
5	m ²	59		
One brick walls				
<u>BRICKWORK SUNDRIES</u>				
<u>Brickwork reinforcement</u>				
6	m	43		
75mm Wide reinforcement built in horizontally				
7	m	380		
150mm Wide reinforcement built in horizontally				
<u>Pre-stressed fabricated lintels</u>				
8	m	8		
110 x 75mm Lintels in lengths not exceeding 3m				
<u>Galvanised hoop iron cramps, ties, etc</u>				
9	No.	8		
30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end built into brickwork				
Carried Forward			R	

Construction of Moletjie Office Cluster

Item No		Unit	Quantity	Rate R	Amount
	Brought Forward				
	FACE BRICKWORK				
	<u>Face bricks (Prime Cost amount R4 500.00/1000) pointed with flush horizontal and vertical joints</u>				
10	Extra over brickwork for external face brickwork	m ²	94		
	<u>Brick-on-edge header and roller course copings, sills, etc with recessed joints on all external exposed faces</u>				
11	220mm Wide sill set sloping and slightly projecting pointed o	m	2		
12	Brick-on-edge header and roller course lintels with recessed joints on all external exposed faces	m	4		
	Carried Forward to Summary of Section No.3				R

Construction of Moletjie Office Cluster

Item No	Unit	Quantity	Rate	Amount
Section No.3 Guard House & Refuse area BILL No.4				
<u>WATERPROOFING</u>				
NOTE Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.120 for CPAP formula purposes				
<u>DAMP-PROOFING OF WALLS AND FLOORS</u> <u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u>				
1	m ²	6		
2	m ²	216		
Carried Forward to Summary of Section No.3				R

Construction of Moletjie Cluster Office

Item No	Unit	Quantity	Rate	Amount
Section No.3 Guard House & Refuse area BILL No.5				
<u>ROOF COVERINGS, etc</u>				
NOTE Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.124 for CPAP formula purposes				
<u>TILED ROOF COVERING AND ACCESSORIES</u> <u>420 x 332mm "Marley" concrete roof tiles nailed with no-corrosive tile nails to 38 x 38mm sawn softwood battens at 330mm centres on Marley under tile membrane</u>				
1	m ²	25		
2	m	6		
Carried Forward to Summary of Section No.3				R

construction of Moletjie Cluster Office

Item No	Unit	Quantity	Rate	Amount
<p>Section No.3 Guard House & Refuse area BILL No.6</p> <p><u>CARPENTRY AND JOINERY</u></p> <p>NOTE Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.126 for CPAP formula purposes</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Particle board:</u> Particle board shall comply with the following specifications a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type</p> <p><u>Joinery</u> Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc. Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.</p> <p><u>Fixing</u> Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><u>Decorative laminate finish</u> Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p><u>ROOFS, ETC</u></p> <p><u>Plate nailed timber roof truss construction</u></p> <ul style="list-style-type: none"> * The following is applicable in respect of roof trusses: * Trusses are at maximum 1050mm centres * Ceilings are generally 6,4mm gypsum plasterboard on 38 x 38mm brandering * All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 / SABS 1245 * Metal connector plates shall have a minimum yield strength of 228MPa and a minimum ultimate tensile strength of 330MPa with hot-dip galvanised finish * All joints to be close fitted butt joints * Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers' Certificate upon completion of installation * The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site prior design or fabrication commences * Tenderes must study the roof plan and sections as provided and obtain prices from qualified and registered roof truss supplier as no claim in this regards will be entertained 				

Construction of Moletjie cluster Office

Item No		Unit	Quantity	Rate	Amount
	<u>Sawn Softwood</u>				
1	38 x 114mm Wall plates Design, manufacture, supply and deliver on site, plate nailed roof construction to the guard house size 16m ² overall on plan consisting of double pitch roof trusses, 1800mm high (extreme), including all necessary purlins, runers, bracing and cross bracing, etc (wall plates measured elsewhere)	m	14		
2		No.	1		
	<u>Sundries</u>				
3	Two coats creosote on sawn timbers	m ²	4		
	<u>DOORS, ETC</u>				
	<u>Wrought doors hung to steel frames</u>				
4	44mm "TDM" framed and ledged door 813 x 2 032mm high	No.	1		
	<u>Semi-solid flush panel masonite door hung to steel frame</u>				
5	40mm door 813 x 2 032mm High	No.	1		
	Carried Forward to Summary of Section No.3			R	

Construction of Moletjie Cluster

Item No		Unit	Quantity	Rate	Amount
Section No.3 Guard House & Refuse area BILL No.7					
<u>CEILING, PARTITIONS AND ACCESS FLOORING</u>					
NOTE Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.129 for CPAP formula purposes					
<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 given elsewhere					
<u>NAILED UP CEILINGS</u>					
<u>4mm "Fibre cement" ceiling board with H-type pressed steel jointing strips</u>					
1	Ceilings including 38 x 38mm sawn softwood brander at min. 400mm centres	m ²	12		
2	Extra over ceiling for 650 x 650mm trap door of 38 x 50mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No.	1		
3	<u>"Rhino" gypsum plasterboard comices</u> 75mm Coved cornices	m	17		
4	<u>"Aerolite" or similar and approved insulation</u> 100mm thick Insulation closely fitted and laid on top of brand	m ²	12		
Carried Forward to Summary of Section No.3					

Item No	Unit	Quantity	Rate	Amount
Section No.3 Guard House & Refuse area BILL No.8				
<u>IRONMONGARY</u>				
NOTE Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.132 for CPAP formula purposes				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Finishes to ironmongary</u> Where applicable finishes to ironmongary are indicated by suffixes in according with the following list BS - Satin bronze lacquered, CH - Chromium plated, SC - Satin chromium plated, SE - Silver enamelled, GE - Grey enameeled, AS - Anodised silver, AB - Anodised bronze, AG - Anodised gold, ABL - Anodised black, PB - Polished brass, PL - Polished and lacquered, PT - Epoxy coated, SD - Sanded, NP - Nickle plated				
<u>HINGES, BOLTS, ETC.</u>				
1	No.	2		
150mm Brass barrel bolt				
<u>LOCKS</u>				
<u>"Mazac Tarpon" or similar approved</u>				
2	No.	2		
"LA952/4L" four lever lockset and handles with chrome plated				
<u>LETTERS, NAMEPLATES, ETC</u>				
<u>"Union" or similar and approved</u>				
3	No.	1		
250 x 300mm Male Toilet Signage				
<u>BATHROOM FITTINGS</u>				
<u>"Nampak" or similar and approved</u>				
4	No.	1		
"TR2" lockable toilet roll holder plugged				
<u>"Stiebel Eltron" or similar and approved</u>				
5	No.	1		
"SDDS" soap dispenser plugged				
<u>SUNDRIES</u>				
<u>"Union" or similar and approved</u>				
6	No.	2		
"AL8730AS" door stop plugged				
Carried Forward to Summary of Section No.3			R	

Construction of Moletji Cluster Office

Item No	Unit	Quantity	Rate	Amount
Section No.3 Guard House & Refuse area BILL No.9				
<u>METALWORK</u>				
NOTE Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.136 for CPAP formula purposes				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Descriptions</u> Descriptions of bolts shall be deemed to include nuts and washers. Descriptions of expansion anchors and bolts and chemical anchors and bolts, shall be deemed to include nuts, washers and mortices in brickwork or concrete. Metalwork described a s"holed or bolt(s)" shall be deemed to exclude the bolts unless otherwise described.				
<u>PRESSED STEEL DOOR FRAMES</u>				
<u>1,2mm Double rebated frames suitable for half brick walls</u>				
1	No.	1		
<u>1,2mm Double rebated frames suitable for one brick walls</u>				
2	No.	1		
<u>STEEL WINDOWS, DOORS, ETC.</u>				
<u>Standard residential windows with type "B2" burglar bars to opening and fixed sections</u>				
4	No.	2		
5	No.	1		
Carried Forward to Summary of Section No.3				R

Construction of Moletjie Cluster Office

Item No		Unit	Quantity	Rate	Amount
Section No.3 Guard House & Refuse area BILL No.10					
<u>PLASTERING</u>					
NOTE Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.142 for CPAP formula purposes					
<u>SCREEDS</u>					
<u>1:4 Cement plaster screeds, wood floated on concrete</u>					
1	30mm Thick on floors and landings	m ²	16		
<u>INTERNAL PLASTER</u>					
<u>Cement plaster on brickwork</u>					
2	On walls	m ²	42		
3	On narrow widths	m ²	2		
Carried Forward to Summary of Section No. 3					R

Construction of Moletjie Cluster Office

Item No	Unit	Quantity	Rate	Amount
Section No.3 Guard House & Refuse area BILL No.11				
<u>TILING</u>				
NOTE Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.144 for CPAP formula purposes				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Descriptions</u> Unless described as "fixed with adhesive to plaster" descriptions of tiling on brick or concrete walls, colimns, 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.				
<u>WALL TILING</u>				
<u>200 x 200 x 6mm Ceramic tiles (PC Amount R100.00/m²) fixed with adhesive to plaster</u>				
1 On walls	m ²	15		
2 On narrow widths	m ²	1		
<u>FLOOR TILING</u>				
<u>300 x 300mm Ceramic tiles (PC Amount R150/m²) fixed with adhesive to bedding and flush pointed with tinted waterproof jointing compound</u>				
3 On floors	m ²	12		
4 On skirting	m	15		
Carried Forward to Summary of Section No.3			R	

Item No	Unit	Quantity	Rate	Amount
<p>Section No.3 Guard House & Refuse area BILL No.12</p> <p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p>NOTE deemed to fall into Work Group No.146 for CPAP formula</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>"Polycop" polypropylene pipes:</u></p> <p>Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "fast-fuse" heat and welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated.</p> <p>Pipes shall be firmly fixed to walls etc. with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions All pipe diameters are normal external.</p> <p><u>Concrete Pipes</u> Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.</p> <p><u>uPVC Pipes and fittings</u> Soil, waste and vent pipes and fittings shall be solvent weld jointed.</p> <p><u>uPVC pipes and fittings</u> Pipes for water supply shall be of class stated. Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p> <p>Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints</p> <p><u>Copper pipes</u> Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.</p> <p><u>Fixing of pipes</u> Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level.</p> <p style="text-align: center;">Carried Forward</p>				

Item No		Unit	Quantity	Rate	Amount
	Brought Forward				
	<p><u>Reducing fittings</u> Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers, he may do so on the understanding that no claim in this regard will be entertained. in the case of pipes with diameters exceeding 60mm, all sizes are given and no claim for extra bushes, reducers etc, will be entertained.</p> <p><u>Wire gratings</u> Descriptions of gutter outlets etc. shall be deemed to include balloon wire gratings</p> <p><u>Exposed concrete surfaces</u> Exposed surfaces of concrete storm water channels. Cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc, shall be finished smooth with plaster.</p> <p><u>Excavations</u> Hard rock and soft rock shall be as defined in "Earthworks" - No allowance made for this in Bill.</p> <p><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.</p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200L: medium-pressure pipelines LD: Sewers LE: storm water drainage pipe trenches etc, shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB: Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1-3.4.1, 5.1-5.3 and 7 of SABS 1200LB: Bedding (Pipes). Unless otherwise described bedding of rigid shall be Class B bedding</p> <p><u>Flush pans</u> Flush pans shall have straight or side outlets and "P" or "S" traps as necessary.</p> <p><u>Stainless steel basins, sinks, wash troughs, urinals etc.</u> Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><u>Waste unions</u> Descriptions of waste unions shall be deemed to include tubber or vulcanite plugs and chains fixed to fittings</p>				
	Carried Forward				

Item No		Unit	Quantity	Rate	Amount
Brought Forward					
<u>SANITARY FITTINGS</u>					
<u>"Vaal" or similar and approved</u>					
1	Ceramic washand basin (PC Amount R950.00/unit) with ped	No.	1		
2	Low level WC suite (PC Amount R800.00/unit) comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern with flash pipe.	No.	1		
<u>WASTE UNIONS, ETC.</u>					
<u>"Cobra watertech" or similar and approved</u>					
3	32mm "301CP" Basin waste union	No.	1		
<u>TRAPS, ETC</u>					
<u>"Marley" or similar and approved</u>					
4	32 x 50mm deep seal "P" or "S" trap	No.	1		
<u>TAPS, VALVES, ETC</u>					
<u>"Cobra watertech" or similar and approved</u>					
5	Basin mixer tap chrome plated (PC Amount R250/unit)	No.	1		
6	15mm 126CP stopcock	No.	1		
<u>SANITARY PLUMBING</u>					
<u>uPVC pipes</u>					
7	50mm pipes	m	8		
8	110mm uPVC Pipes	m	5		
<u>Extra over uPVC pipes for fitting</u>					
9	110mm Reducer	No.	2		
10	50mm Bend	No.	2		
11	50mm Junction	No.	2		
12	110mm Pan connector	No.	1		
13	50mm Access bend	No.	1		
14	110mm Access bend	No.	10		
15	50mm Access junction	No.	2		
16	110mm Access junction	No.	1		
17	110mm Access bend with anti-syphon horn	No.	1		
18	50mm "GI Two-way" vent valve	No.	1		
<u>Sundries</u>					
19	Testing waste pipe	Item	1		2 000,00
Carried Forward				R	

Item No		Unit	Quantity	Rate	Amount
	Brought Forward			R	
	<u>WATER SUPPLIES</u>				
	<u>Class 0 copper pipes</u>				
20	15mm Pipes	m	10		
21	15mm Pipes chased into brick walls	m	5		
22	22mm Pipes	m	10		
23	22mm Pipes chased into brick walls	m	5		
	<u>Extra over class 0 copper pipes for capillary fittings</u>				
24	15mm Fittings	No.	5		
25	22mm Fittings	No.	5		
	 <u>FIRE APPLIANCES Etc.</u>				
26	4,5kg Carbon dioxide fire extinguisher with brackets to wall	No.	1		
	 <u>TESTING</u>				
27	Testing water pipe system	Item	1		2 000,00
	Handling and profit for item 27	%	2000		
	 Carried Forward to Summary of Section No.3			R	

Item No	Unit	Quantity	Rate	Amount
Section No.3 Guard House & Refuse area BILL No.13				
<u>GLAZING</u>				
NOTE Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.150 for CPAP formula purposes				
<u>TOPS, SHELVES, DOORS, MIRRORS, Etc</u> <u>"Franke CHR401" 1mm 18/10 stainless steel with reflection polished surface, holed for and fixed with chromium plate dome capped mirror screws with rubber buffers to plug in brickwork</u>				
1 Mirror 400 x 600mm high with four capped mirror screws	No.	1		
Supply deliver and install 4mm SABS approved windowpane	m ²	4		
Carried Forward to Summary of Section No.3				R

Construction of Moletjie Cluster Office

Item No	Unit	Quantity	Rate	Amount
Section No.3 Guard House & Refuse area BILL No.14				
<u>PAINTWORK</u> NOTE Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No.152 for CPAP formula purposes				
<u>ON FLOATED PLASTER</u> <u>One coat alkali resistant primer, one undercoat and two coats interior QUALITY PVA emulsion paint</u>				
1	m ²	42		
<u>ON PLASTERBOARD</u> <u>One coat primer and two coats interior QUALITY PVA emulsion paint</u>				
2	m ²	12		
<u>ON METAL</u> <u>Spot priming defects in pre-primed surfaces with zinc chromate primer and applying one undercoat and two coats matt enamel paint on steel</u>				
3	m ²	2		
4	m ²	1		
<u>ON WOOD</u> <u>Three coats polyurethane semi-gloss varnish</u>				
5	m ²	3		
6	m ²	3		
Carried Forward to Summary of Section No.3				

Construction of Moletjie Cluster

Item No		Amount
	Section No.3 Guard House & Refuse area	
Bill No.	SECTION SUMMARY	
1	Earthworks (Provisional)	
2	Concrete & Formwork	
3	Masonry	
4	Waterproofing	
5	Roof Coverings, etc.	
6	Carpentry & Joinery	
7	Ceilings, Partitions & access flooring	
8	Ironmongery	
9	Metalwork	
10	Plastering	
11	Tiling	
12	Plumbing & Drainage (Provisional)	
13	Glazing	
14	Paintwork	
	Carried to Final Summary	

Construction of Moletji Cluster Office

Item No	Unit	Quantity	Rate	Amount
Section No.4: DRIVEWAYS, PARKING AND PAVING (PROVISIONAL)				
BILL No.1				
The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.				
<u>DRIVEWAY</u>				
<u>EARTHWORKS</u>				
1				
1	m ³	80		
2				
2	m ³	80		
3				
3	m ²	525		
4				
4	m ²	525		
5	No.	10		
<u>Soil insecticide</u>				
6				
6	m ²	525		
<u>PRECAST CONCRETE</u>				
<u>Light grey "Grinaker G-blocks" interlocking precast concrete (35MPa paving blocks laid with butt joints on 50mm river sand bed with sand swept into joints including preparation of ground or filling</u>				
7				
7	m ²	525		
<u>KERBS, CHANNELS, Etc.</u>				
<u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing</u>				
8	m	60		
9	m	35		
<u>ROAD MARKING</u>				
<u>Prepare and paint one coat white reflective road marking paint on precast concrete paving blocks</u>				
10	m	66		
11	No.	1		
Carried Forward to Summary of Section No.4				R

Construction of Moletjie Cluster Office				
Item No	Unit	Quantity	Rate	Amount
<p>Section No.4: FENCING (PROVISIONAL) BILL No.2</p> <p>The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.</p> <p><u>FENCING</u></p> <p><u>SECURITY FENCING</u> <u>Precast concrete fencing</u></p> <p>1 Precast concrete fencing 2m high above ground level with exposed faces of all components finished smooth and one side of infill panels with "big brick" design comprising of 150 x 150mm posts 2,5m long having tapered recesses on two sides and reinforced with 12mm diameter mild steel continuous bars, founded in and including 450 x 450 x 450mm unreinforced concrete bases at 1,59m centers and with precast caps cemented on top of each post and with 38 x 1525 x 305mm infill panels reinforced with type 395 high tensile steel fabric reinforcement including grouting panels in mortar.</p> <p style="text-align: right;">m 407</p> <p><u>Gates, screens, etc.</u></p> <p>2 Manually operated sliding gate 5500 x 2440mm high overall, the outer frame work, the outer frame of 75 x 75 x 5mm square tubing and 50 x 50 x 2,5mm welded mesh to frame work, complete with industrial type roller wheels rolling on ground track and mechanical operating mechanism and padbolt.</p> <p style="text-align: right;">No. 1</p>				
Carried Forward to Summary of Section No.4			R	

Section No.4 EXTERNAL WORKS
Bill No.2
Fencing

Item No	Construction of Moletji Cluster Office	Amount
	SECTION No.4	
Bill No.	SECTION SUMMARY	
1	Driveways, paving	
2	Fencing	
	Carried to Final Summary	

Construction of Moletjie Cluster Office

Item No	Unit	Quantity	Rate	Amount
Section No.5				
PROVISIONAL SUMS AND BUDGETARY ALLOWENCES				
BILL No.1				
<u>NOTES:</u>				
1				
The Contractor's attention is drawn specifically to the Principal Agreement clause 20.0 (Nominated Sub-Contractors), Clause 21.0 (Selected Sub-Contractors) and Clause 22 (Work by Others) and related Clauses in Section 1, Bill No.1 - Preliminaries				
2				
The Contractor's attention is drawn also to the definition of attendance and on Nominated or Selected Sub-Contractors and of fuel, power and other specialised installations given in the JBCC Preliminaries.				
3				
Where special attendance includes the provision of hoisting facilities for Sub-Contractor then the Contractor shall:				
* Ensure that the capacities of his hoisting equipment are sufficient to deal with the masses and the quantities of items to be hoisted.				
* Schedule the times of availability of the hoisting equipment for each Sub-Contractor.				
* Provide all necessary personnel to operate the hoisting equipment.				
All to enable the Sub-Contractor to execute the hoisting or lowering of his material, etc. using the facilities by the Contractor				
4				
Under no circumstances may Provisional Amount, etc. be extended at an amount lower than the Amount given in this Bill.				
5				
CPAP Formula Work Group 190 shall apply to all lump sum amounts of profit attendance				
<u>PROVISIONAL SUMS</u>				
<u>Electrical Installation</u>				
1				
Provide an amount of R 147 284.00 for electrical installation. All inclusive of Eskom connection application, cabling thereof, Electrical wiring of buildings and fittings thereof complete.				
	Item	1		147 284,00
<u>Fire Prevention Installation</u>				
2				
Provide the amount of R 75 000.00 for Fire prevention installation, inclusive of 10 000 Litre water tank, elevated steel tank stand, Fire hose reels, pipes etc. and installation complete with pump etc.				
	Item	1		75 000,00
Carried Forward			R	

Construction of Moletji Cluster Office

Item No	Unit	Quantity	Rate	Amount
				R
	Brought Forward			
	<u>Septic Tank and French drain</u>			
4	Item	1		30 000,00
	Provide the amount of R 30 000.00 for the construction of a septic tank and french drain complete - no allowance made for sewer pipes connecting with building - distances in meter to be determined on site			
	<u>Mechanical Air-Conditioning</u>			
5	Item	1		60 000,00
	Provide for the amount of R 60 000.00 for air-conditioning units and installation thereof complete			
	<u>Kitchen cupboard for sink</u>			
6	Item	1		5 000,00
	Provide the amount of R 5 000.00 for kitchen cupboard to install sink complete			
	<u>Carports</u>			
7	Item	1		30 000,00
	Provide the amount of R 30 000.00 for the installation of 6 x carports			
	<u>Profit and general attendance</u>			
8	Item	1		41 000,00
	Provide the amount of R 41 000.00 for profit and general attendance on all Provisional Sums allowed for			
	Carried Forward to Final Summary			R

Construction of Moletjie Cluster Office

		Amount
	FINAL SUMMARY	
tion No.		
1	PRELIMINARIES & GENERAL	
2	OFFICE BUILDING	
3	GUARD HOUSE AND REFUSE AREA	
4	EXTERNAL WORKS	
5	PROVISIONAL SUMS	
	Sub-Total	
	Contigencies 5%	
	Sub-Total	
	Add Value Added Tax (VAT) 15%	
	Carried to FORM OF TENDER	
