

Item No	Quantity	Rate	Amount
<u>BILL NO. 1</u>			
<u>PRELIMINARIES</u>			
<u>NOTES:</u>			
<u>BUILDING AGREEMENT AND PRELIMINARIES</u>			
<p>The JBCC Series 2000 Principal Building Agreement (July 2007 edition) prepared by the Joint Building Contract Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The JBCC Principal Building Agreement Contract Data EC and the JBCC Principal Building Agreement Contract Data CE form an integral part of this agreement</p> <p>The ASAQs Preliminaries (November 2007 edition) published by the Association of South African Quantity Surveyors for use with the said JBCC Principal Building Agreement shall be deemed to be incorporated in these bills of quantities</p> <p>Contractors are referred to the abovementioned documents for the full intent and meaning of each clause thereof</p> <p>These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the abovementioned documents</p> <p>Where any item is not relevant to this specific contract such item is marked N/A, signifying 'not applicable'</p>			
<u>PRICING OF PRELIMINARIES</u>			
<p>Should the contractor select Option A in terms of subclause 3.2.1 in the Contract Data - Contractor to Employer (CE) for the purpose of adjustment of these preliminaries, the amount entered into the amount column in these preliminaries is to be divided into one or more of the three categories provided namely Fixed (F), Value Related (V) and Time Related (T)</p>			
<u>SECTION A - PRINCIPAL BUILDING AGREEMENT</u>			
Carried to Collection		R	
<p>Bill No. 1</p> <p>PRELIMINARIES</p> <p>PROVISION OF ELECTRICAL UPGRADE AND ADMIN ACCOMMODATION TO AN EXISTING FACILITY FOR NULATEX SA (PTY) LTD</p>			

Definitions

1 Clause 1.0 - Definitions and interpretation

F V T

Item

Objective and preparations

2 Clause 2.0 - Offer acceptance and performance obligations

F V T

Item

3 Clause 3.0 - Documents

F V T

Item

4 Clause 4.0 - Design responsibility

F V T

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5 Clause 5.0 - Employer's agents

F V T

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6 Clause 6.0 - Contractor's site representative

F V T

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1	<p>Clause 7.0 - Compliance with laws and regulations</p> <p>Without limiting the generality of the provisions of clause 7.0, the contractor's attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works (refer to Volume 1 of 2 C3.2 for a copy of the relevant specification) and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification [7.1]</p> <p>Construction Environmental Management Plan (C3)</p> <p>The Construction Environmental Management Plan (CEMP) incorporates specifications derived from recommendations in the SEA, ELIDZ Rezoning Environmental Impact Assessment (EIA) and comments Report. Department of Economic Affairs, Environment and Tourism's Conditions of Approval for the rezoning EIA, together with specifications for good "environmental practice" for construction work.</p> <p>The purpose of the CEMP is to translate the recommendations of the SEA and the Rezoning EIA into a contractual environmental management plan which will be strictly applied during the construction of the works.</p> <p>A copy of the CEMP is attached (See 3.3 in Volume 1 of 2 of this document) and tenderers are to familiarize themselves with the provisions contained therein and allow for compliance with the same.</p> <p>F V T</p>	Item		
2	<p>Clause 8.0 - Works risk</p> <p>F V T</p>	Item		
3	<p>Clause 9.0 - Indemnities</p> <p>F V T</p>	Item		
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1	Clause 11.0 - Special insurances F V T	Item		
2	Clause 12.0 - Effecting insurances F V T	Item		
3	Clause 13.0 - Assignment F V T	Item		
4	Clause 14.0 - Security F V T	Item		
	<u>EXECUTION</u>			
5	Clause 15.0 - Preparation for and execution of the works F V T	Item		
6	Clause 16.0 - Site and access F V T	Item		
7	Clause 17.0 - Contract Instructions F V T	Item		
8	Clause 18.0 - Setting out of the works The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments F V T	Item		
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Clause 19.0 - Temporary works and plant

a) Site Enclosure

The contractor will, throughout the entire contract period be responsible for the proper and adequate protection of all workers and visitors on the site from injury and damage resulting from the works and for the proper security of the site at all times. Furthermore, the contractor must allow for all necessary temporary hoardings (Hoardings included in Bill No.3 - Carpentry and Joinery).

Other than the construction site itself, access is limited to the immediate area surrounding the works as enclosed by the entrance to the site. The limit of access and exist will be pointed out to the contractor by the Principal Agent at the pre-tender site inspection.

b) Site Establishment

All site establishment, offices and storage of materials will be strictly limited to an area within the site which must be suitably fenced with 1,8m high steel mesh fencing covered with shade cloth to the satisfaction of the principal agent. The contractor shall be responsible for keeping such areas in a clean, sanitary and orderly condition. The containers shall be removed by the contractor and the area made good at the completion of the contract.

19.1.2

The contractor shall provide, maintain and remove, on completion, the following accommodation.

a) Meeting Room

The room is to be adequately sized and equipped with a sound working table and chairs to accommodate at least thirty (30) people for site meetings.

The room is to be well vented and fitted with two large white boards with markers and erasers.

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b) Generally

The access and the areas around the offices and toilets shall be surfaced with clean crushed stone. Furthermore, an adequate level parking area shall be provided also surfaced with clean crushed stone. Both areas shall be well drained, kept free of mud and maintained throughout the contract period.

The contractor shall allow for the proper maintenance and regular cleaning of the all the above facilities during the contract period to ensure clean usable facilities at all times and shall clear away and make good on completion.

1 Clause 20.0 - Nominated subcontractors

Refer to the provisions on general attendance hereinafter

F V T

Item

2 Clause 21.0 - Selected subcontractors

General attendance of n/s subcontractors for pricing by the contractor shall be in accordance with the n/s agreement. Notwithstanding this provision, general attendance shall be deemed to include for the contractor to provide free of charge to any n/s subcontractor such scaffolding as may reasonably be required by such n / s subcontractor for the execution of the relevant subcontract work

F V T

Item

3 Clause 22.0 - Employer's direct contractors

F V T

Item

4 Clause 23.0 - Contractor's domestic subcontractors

F V T

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COMPLETION

1 Clause 24.0 - Practical completion

The contractor shall not receive any mark-up for overheads and profit on any omission of tenant installation work or tenant installation work by others. Claims of loss of profit shall not be entertained.

F V T

Item

2 Clause 25.0 - Works completion

F V T

Item

3 Clause 26.0 - Final completion

F V T

Item

4 Clause 27.0 - Latent defects liability period

F V T

Item

5 Clause 29.0 - Revision of date for practical completion

The removal and replacement of materials and/or workmanship which do not conform to specification or drawing shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value (Clause 29.3)

F V T

Item

6 Clause 30.0 - Penalty for late or non-completion

F V T

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PROVISION OF ELECTRICAL UPGRADE AND ADMIN ACCOMMODATION TO
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PAYMENT

1 Clause 31.0 - Interim payment

The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.4 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank. Clause 31.6.5 is therefore not applicable.

F V T

Item

2 Clause 32.0 - Adjustment to the contract value

Where prices are submitted by the contractor or n/s subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final payment certificate, it shall be in writing.

Notwithstanding the provisions of clause 32.13 or any other clause, all fluctuations in costs shall be for the account of the contractor.

This contract is a fixed price contract and the contractor is to allow in tender make-up for any price fluctuations.

F V T

Item

3 Clause 33.0 - Recovery of expense and loss

F V T

Item

4 Clause 34.0 - Final account and final payment

F V T

Item

5 Clause 35.0 - Payment to other parties

F V T

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PROVISION OF ELECTRICAL UPGRADE AND ADMIN ACCOMMODATION TO AN EXISTING FACILITY FOR NULATEX SA (PTY) LTD

CANCELLATION

1 Clause 36.0 - Termination by employer - contractor's default

F V T

Item

2 Clause 37.0 - Termination by employer - loss and damage

F V T

Item

3 Clause 38.0 - Termination by contractor - employer's default

F V T

Item

4 Clause 39.0 - Termination - cessation of the works

F V T

Item

DISPUTE

5 Clause 40.0 - Settlement of disputes

F V T

Item

CONTRACT AGREEMENT

6 Clause 41.0 - Post tender provisions

The required post tender information shall be inserted in the
post tender provisions after consultation with the contractor

F V T

Item

7 Clause 42.0 - Contractual agreement

F V T

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PROVISION OF ELECTRICAL UPGRADE AND ADMIN ACCOMMODATION TO
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SECTION B - PRELIMINARIES1.0 Definitions and interpretation

1 Clause 1.0 - Definitions and interpretation

F V T

Item

Documents

2 Clause 2.1 - Checking of documents

F V T

Item

3 Clause 2.2 - Provisional bills of quantities

F V T

Item

4 Clause 2.3 - Availability of construction documentation

F V T

Item

Previous work and adjoining properties

5 Clause 3.1 - Previous work - dimensional accuracy

F V T

Item

6 Clause 3.2 - Previous work - defects

F V T

Item

7 Clause 3.3 - Inspection of adjoining properties

F V T

Item

Samples, shop drawings and manufacturer's instructions

8 Clause 4.1 - Samples of materials

F V T

Item

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<u>Prime cost amounts</u>				
1	Clause 7.1 - Responsibility for prime cost amounts F V T	Item		
<u>Special attendance on n/s subcontractors</u>				
2	Clause 8.1 - Special attendance F V T	Item		
<u>General</u>				
3	Clause 9.1 - Protection of the works F V T	Item		
4	Clause 9.2 - Protection/isolation of existing/sectionally occupied works F V T	Item		
5	Clause 9.3 - Security of the works F V T	Item		
6	Clause 9.4 - Notice before covering work F V T	Item		
7	Clause 9.5 - Disturbance F V T	Item		
8	Clause 9.6 - Environmental disturbance F V T	Item		
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1	Clause 9.7 - Works cleaning and clearing F V T	Item		
2	Clause 9.8 - Vermin F V T	Item		
3	Clause 9.9 - Overhand work F V T	Item		
<u>Schedule of Variables</u>				
Information necessary for making choices and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that either no details or specific requirements are available or that the clause is irrelevant for this specific contract.				
10.1 Provisional Bills of Quantities (clause 2.2)				
The quantities are provisional (Yes).				
10.2 Availability of Construction documentation (clause 2.3)				
Construction documentation is not complete (Yes).				
10.3 Previous work - Dimensional accuracy (clause 3.1) (No).				
10.4 Previous work - defects (clause 3.2) (No)				
10.5 Inspection of adjoining properties (clause 3.3) (Yes).				
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10.6 Water (Clause 7.2)

Option A (By Contractor) No.

Option B (By the Employer free of charge) Yes.

Option C (By the Employer metered) No.

10.7 Electricity (clause 7.3)

Option A (By Contractor) No.

Option B (By the Employer free of charge) Yes.

Option C (By the Employer metered) No.

10.8 Telecommunications (clause 7.4)

Telephone: Yes

Facsimile: Yes

E-Mail: Yes

10.9 Ablution facilities (clause 7.5)

Option A (By Contractor) Yes

Option B (By Employer) No.

10.10 Protection of the works. (clause 9.1)

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10.11 Protection/ isolation of existing/ sectionally occupied works (clause 9.2)

Protection/ isolation is required. (Yes).

The existing premises will be occupied and operational during the construction period. The Contractor is to ensure that close liason is held at all times with the clients representative and ensure that the works, change over of areas, etc are completed satisfactory.

The Contractor must note that certain areas of the site will be strictly out of bounds during the contract. The Contractor is to take all measures necessary to ensure that no members of his staff, sub-contractors, etc enter such areas.

10.12 Disturbance (clause 9.5) (Yes)

10.13 Enviromental disturbance (clause 9.6) (Yes)

SECTION C: SPECIFIC PRELIMINARIES

Section C: Specific Preliminaries:

1 Site instructions

Instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor

F V T

Item

2 Overtime

Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.

F V T

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PROVISION OF ELECTRICAL UPGRADE AND ADMIN ACCOMMODATION TO AN EXISTING FACILITY FOR NULATEX SA (PTY) LTD

Dayworks

Where in the opinion of the quantity surveyor any extra work cannot properly be measured or valued, the contractor will be allowed daywork prices therefor calculated upon the costs defined hereunder together with the stated percentages. The total thus arrived at shall be the total amount recoverable by the contractor for performing such work.

1. The cost to the contractor or sub-contractor of materials, being the net cost (at current market prices) actually paid for such materials after the deduction of cash discounts or if materials are supplied from the contractor's or sub-contractor's stock then the cost of such materials shall be based upon the current market price plus the cost of delivery to site; to which net cost 10 per cent thereof shall be added

2. The cost of labour to the contractor or sub-contractor, being all items of direct cost of labour actually remunerated to the workmen concerned which shall include the cost of all allowances in terms of the Industrial Conciliation Act (where applicable) or any other wage determination applying in the area or any other charge or expense which is normally binding as well as all statutory levies to education and training funds as may be applicable relating to the class of labour concerned at the time when and in the area where the daywork is executed: to which labour costs 75 per cent in respect of shopfitting, wall and floor tiling, mosaic work and electrical work, 60 per cent in respect of plumbing, plastering, joinery and stone masonry and 40 per cent in respect of painting and decorating, general builders work and any other trade not specified herein, shall be added.

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Hourly based rates for labour shall be the current market rates for labour based upon standard working hours and shall be applied in respect of the time spent by workers directly engaged on the particular dayworks including any operators operating mechanical plant and transport and erecting and dismantling other plant. If a claim is made that individual workmen have been paid wages and allowances in excess of the minimum legalised rates, then proof must be furnished that such workmen had been so paid prior to the commencement of the extra work referred to.

Time lost due to inclement weather shall be excluded from the time charged.

3. Other direct costs, being any related direct costs such as mechanical plant and transport, other than costs of material and labour shall be the net cost thereof to which net cost 10 per cent thereof shall be added.

4. The rates for mechanical plant shall be commercial hire rates current at the time of executing the daywork and shall include fuel and insurance costs.

The above percentages shall cover head office charges; site staff including site supervision; third party and contractor's public liability insurance; contractor's workmen's compensation and unemployment insurance fund contributions; use, repair and sharpening of non-mechanical hand tools; use of erected scaffolding, staging, trestles and the like; use of tarpaulins, protective clothing, artificial lighting, safety and welfare facilities, storage and the like as may be available on the site; and profit.

- 1 Supporting vouchers reflecting the time spent and materials used each week shall be delivered for verification to the Quantity Surveyor not later than twenty one days after the end of the week concerned. Should the contractor fail to submit the vouchers within this time, the Quantity Surveyor shall determine a fair price for the work.

F V T

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1	<p>Warranties for material and workmanship</p> <p>Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The warranty shall state that workmanship, materials and installation are warranted for a specified period from the date of final completion and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice to do so. The warranty will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor</p> <p>F V T</p>	Item		
2	<p>Co-operation of contractor for cost management</p> <p>It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The principal agent undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedure to be implemented and the contractor shall attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures, as necessary, to all subcontractors</p> <p>F V T</p>	Item		
3	<p>Propping of floors below</p> <p>N/A</p> <p>F V T</p>	Item		
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1	<p>Testing of windows for watertightness</p> <p>Each window shall be tested for watertightness with water sprayed on using adequate pressure. If in the opinion of the principal agent, the pressure proves to be inadequate, then the pressure shall be boosted by means of compressed air or other approved means</p> <p>F V T</p>	Item		
2	<p>Testing of flat roof waterproofing for watertightness</p> <p>N/A</p> <p>F V T</p>	Item		
3	<p>Ingress of water</p> <p>It is the Contractors responsibility to prevent ingress of water into the buildings whilst all work is being completed, and damage arising out of the above will be made good at the Contractors expense.</p> <p>F V T</p>	Item		
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<u>"Gypwall Firestop Hispec 63/F120550" Or Other Approved Partitioning System Complete Steel Studs, Boarding Both Sides, Aluminium Skirtings Both Sides Etc. All In Strict Accordance With The Manufactures Instructions</u>					
1	Partitioning 2.80m high with bottom track plugged and top track fixed to suspended tee	m	56		
2	Ditto, 3.10m high	m	56		
3	Extra over for end intersection with isopanel walling	No	29		
4	Ditto, wall end	No	4		
5	Ditto, T - intersection	No	18		
6	Extra over partition for natural aluminium door frame for and including solid core door size 813 x 2032mm including one and a half pairs of 100mm aluminium butt hinges with nylon inserts, two lever mortice lockset as Union CZ682-24-95CH, and door stop as Union AL8730 and additional studding, trimming, etc	No	10		
7	Extra over partition for natural aluminium door frame for and including solid core door size 813 x 2032mm with 450mm high fanlight above filled in with and including 4mm clear float glass including one and a half pairs of 100mm aluminium butt hinges with nylon inserts, two lever mortice lockset as Union CZ682-24-95CH, and door stop as Union AL8730 and additional studding, trimming, etc	No	5		
8	Ditto, double door size 1500 x 2032mm	No	1		
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CEILINGS PARTIONS AND ACCESS FLOORING					
PROVISION OF ELECTRICAL UPGRADE AND ADMIN ACCOMMODATION TO AN EXISTING FACILITY FOR NULATEX SA (PTY) LTD					

Bill No. 4

CEILINGS PARTIONS AND ACCESS FLOORING

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CEILINGS PARTIONS AND ACCESS FLOORING

PROVISION OF ELECTRICAL UPGRADE AND ADMIN ACCOMMODATION TO
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Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u>			
	<u>IRONMONGERY</u>			
1	Door closer as Dorma TS73V EN 2-4	No 5		
2	Paraplegic grab rail as Chairman Industries DL2	No 2		
3	Ditto, as Chairman Industries SR2	No 2		
4	Toilet roll holder as Kimberly Clark SA405607 fixed to wall	No 6		
5	Hand towel dispenser as Slimroll U1356700 fixed to wall	No 4		
6	Soap dispenser as Kimberley Clark SA427715 fixed to wall	No 4		
7	Wall mounted waste bin as Kimberley Clark SA426213 fixed to wall	No 4		
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Bill No. 6				
IRONMONGERY				
PROVISION OF ELECTRICAL UPGRADE AND ADMIN ACCOMMODATION TO				
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	<u>BILL NO. 8</u>			
	<u>TILING</u>			
	<u>WALL TILING</u>			
	<u>Provide The Prime Cost Sum Of R 180.00/m2 Nett Supply Only For Ceramic Wall Tiles - Prices Are To Include For Laying, Tal Goldstar Adhesive, Pointing With Tal Tinted Epoxy Grout, Waste And Profit (Plaster Elsewhere Measured)</u>			
1	On drywall partition	m2	290	
2	Ditto on narrow widths	m2	53	
3	On isopanel walling	m2	44	
	<u>Sundries</u>			
4	Soap dish holder as "Vaal 71511085" fixed to wall	No	2	
5	Aluminium corner piece to edge of tiles	m	121	
	<u>FLOOR TILING</u>			
	<u>Provide The Prime Cost Sum Of R 250.00/m2 Nett Supply Only For Ceramic Floor Tiles - Prices Are To Include For Laying Tal Superflex Waterproofing, Tal Goldstar Adhesive, Pointing With Tal Tinted Epoxy Grout, Waste And Profit (Screeds Elsewhere Measured)</u>			
6	On floors to falls	m2	3	
7	On narrow widths	m2	1	
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	TILING			
	PROVISION OF ELECTRICAL UPGRADE AND ADMIN ACCOMMODATION TO AN EXISTING FACILITY FOR NULATEX SA (PTY) LTD			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 9</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	<u>Note:</u>			
	For Preambles and Specifications refer to:			
	1. "Model Preambles for Trades" as published by the Association of South African Quantity Surveyors (2008 Edition).			
	2. Where a trade name is specified an equal or other approved trade name may be approved subject to the Client's approval.			
	<u>SOIL AND WASTE WATER DRAINAGE</u>			
1	Cut into side of existing manhole and connect up new 160mm PVC pipe including upgrading concrete benching, channels, etc	No	2	
2	Cut into side of existing 160mm PVC pipe for new manhole (elsewhere measured)	No	1	
	<u>UPVC Pipes Class 34 Including Laying On And Including Average 150mm Layer Of Sand Including Excavations In Earth, Risk Of Collapse, Keeping Excavations Free From Water, Working Space, Filling In And Ramming With Selected/Imported Filling, Carting Away Surplus Soil, Etc</u>			
3	110mm Pipe laid in and including trenches not exceeding 1,00m deep	m	40	
4	160mm Ditto	m	7	
5	110mm Pipe laid in and including trenches exceeding 1.00 and not exceeding 2,00m deep	m	14	
6	160mm Ditto	m	3	
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	Bill No. 9			
	PLUMBING AND DRAINAGE			
	PROVISION OF ELECTRICAL UPGRADE AND ADMIN ACCOMMODATION TO AN EXISTING FACILITY FOR NULATEX SA (PTY) LTD			

<u>Extra For:</u>				
1	110mm Bend	No	13	
2	160mm Reducing inspection eye junction	No	1	
3	160mm Bend	No	2	
4	110mm Inspection eye bend	No	2	
5	110mm Inspection eye junction	No	6	
<u>Sundries</u>				
6	Break up existing 150mm thick reinforced concrete paving for a width of 700mm including neatly saw cutting through along both sides and later replace concrete to match existing	m	45	
7	Cement Concrete 15MPa in encasing 110mm pipe to a minimum thickness of 100mm all round including any necessary formwork, etc	m	5	
8	Ditto, to 160mm pipe	m	10	
9	Ditto, to 110mm bend	No	6	
10	UPVC gulley trap complete with UPVC removable grating including encasing all round with cement concrete 15MPa and with standard precast concrete surround fitted on top including excavation, risk of collapse, fill in and ram, formwork, etc	No	3	
11	110mm Diameter UPVC ABC rodding eye cover and frame including joint to UPVC pipe and encasing in 500 x 500 x 250mm thick concrete	No	1	
12	Inspection chamber size 1050mm diameter x not exceeding 1000mm deep internally complete (see drawing at back of Bill)	No	1	
Carried to Collection				R
Bill No. 9				
PLUMBING AND DRAINAGE				
PROVISION OF ELECTRICAL UPGRADE AND ADMIN ACCOMMODATION TO				
AN EXISTING FACILITY FOR NULATEX SA (PTY) LTD				

1	Ditto, exceeding 1000mm and not exceeding 2000mm deep	No	1		
2	Extra over excavations for drain trenches, etc in earth for excavation in soft rock	m3	8		
3	Ditto, in hard rock	m3	4		
<p><u>Note:</u></p> <p>In remeasuring the cubic quantity of extra for excavations in soft, hard rock, etc for drain trenches, etc the following basis shall apply:</p> <p>Drain Trenches, Water Supply, Etc - Trenches not exceeding 1,00m deep shall be taken 0,60m wider than the internal diameter of the pipe. This width shall be increased by 100mm for each successive depth of 1,00m to a maximum of 1,00m wider than the internal diameter of the pipe.</p> <p>Inspection Chambers, Etc - Inspection chambers, etc shall be taken to the full extent in width and depth and no more.</p> <p><u>SANITARY PLUMBING</u></p> <p><u>UPVC Pipes And Fittings</u></p>					
4	40mm pipes	m	9		
5	50mm Pipes	m	6		
6	110mm Pipes	m	20		
7	40mm Pipes chased into walls	m	8		
8	50mm Ditto	m	3		
9	40mm Pipes cast into concrete raft slabs	m	3		
10	50mm Ditto	m	6		
Carried to Collection				R	
Bill No. 9 PLUMBING AND DRAINAGE PROVISION OF ELECTRICAL UPGRADE AND ADMIN ACCOMMODATION TO AN EXISTING FACILITY FOR NULATEX SA (PTY) LTD					

1	50mm Inspection eye reducing junction	No	1		
2	110mm Ditto	No	2		
	<u>Sundries</u>				
3	50mm UPVC vent valve	No	1		
4	110mm Ditto	No	1		
5	40mm Brass combination sink "P" trap including joint to pipe and outlet fitting	No	2		
6	32 x 40mm Chromium plated bottle trap including joint to pipe and outlet of fitting	No	6		
7	40mm Brass shower "P" trap with combination plated grating including joint to pipe	No	2		
	<u>SANITARY FITTINGS</u>				
8	Stainless steel wash hand basin as "Franke Grade 304 18/10 Code 2520030" or other approved size 590 x 375 x 160mm deep complete with waste union, overflow tube attachment, plug and chain, brackets, etc (taps elsewhere measured)	No	6		
9	"Vaal Hibiscus Elite VAA-772480" or other approved WC complete with pan, solid waste double flap seat and matching push button top dual flush cistern with flush pipe and including joint to supply pipe	No	4		
10	Ditto, but "Vaal Protea Paraplegic"	No	2		
11	Stainless steel double bowl sink unit as "Franke Neptune NEX221" or other approved size 1160 x 510mm complete with waste union, plug, chain, etc and fixing on top of timber fitting (elsewhere measured)	No	2		
	Carried to Collection			R	
	Bill No. 9				
	PLUMBING AND DRAINAGE				
	PROVISION OF ELECTRICAL UPGRADE AND ADMIN ACCOMMODATION TO AN EXISTING FACILITY FOR NULATEX SA (PTY) LTD				

<u>WATER SUPPLY</u>				
<u>Class II Copper Pipes</u>				
1	15mm Pipes	m	43	
2	22mm pipes	m	26	
3	15mm Pipes chased into walls	m	30	
4	22mm Ditto,	m	8	
<u>Extra For Approved Brass Compression Fittings</u>				
5	15mm Fittings	No	56	
6	22mm Fittings	No	16	
<u>Sundries</u>				
7	15mm Brass stopcock including joints to pipes	No	2	
8	22mm Ditto	No	3	
9	15mm Chromium plated stopcock including joints to pipes	No	6	
10	15mm Chromium plated angle regulating valve with 350mm flex tube as Cobra 832/350 including jointing to pipes	No	17	
11	15mm Chromium plated basin mixer as "Cobra NA-951LH" or other approved including joint to pipe	No	4	
12	15mm Chromium paraplegic basin lever pillar tap as "Cobra 503-21" or other approved including joint to pipe	No	4	
Carried to Collection				R
Bill No. 9				
PLUMBING AND DRAINAGE				
PROVISION OF ELECTRICAL UPGRADE AND ADMIN ACCOMMODATION TO				
AN EXISTING FACILITY FOR NULATEX SA (PTY) LTD				

1	28mm Pipes chased into existing walls including making good to plaster	m	5		
	<u>Extra For Approved Brass Compression Fittings:</u>				
2	28mm Fitting	No	12		
	<u>Sundries</u>				
3	Approved fire hose reel complete with 30,00m rubber rose, chromium plated stopcock, shut off nozzle and wall brackets and fixing to wall including joint to pipe	No	2		
4	4,5 Kg DCP fire extinguisher fixed to wall with and including mounting bracket and 19 x 250 x 500mm painted meranti backing board with arris rounded edges	No	8		
	<u>TESTING</u>				
5	Allow for testing all stormwater drainage, soil and waste water drainage, sanitary plumbing, sanitary fittings, water supply and fire service to the satisfaction of the architect and the Municipal Authorities, replace any defective work free of charge and leave perfect			Item	
	<u>BUILDERS WORK IN CONNECTION WITH PLUMBING INSTALLATION</u>				
6	Cut hole through facebrick wall for pipe not exceeding 100mm diameter and make good	No	8		
7	Prepare and apply one coat undercoat and two coats gloss enamel paint to copper pipes not exceeding 300mm	m	21		
	Carried to Collection			R	
	Bill No. 9				
	PLUMBING AND DRAINAGE				
	PROVISION OF ELECTRICAL UPGRADE AND ADMIN ACCOMMODATION TO				
	AN EXISTING FACILITY FOR NULATEX SA (PTY) LTD				

Bill No. 9

PLUMBING AND DRAINAGE

COLLECTION

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Bill No. 9

PLUMBING AND DRAINAGE

PROVISION OF ELECTRICAL UPGRADE AND ADMIN ACCOMMODATION TO
AN EXISTING FACILITY FOR NULATEX SA (PTY) LTD

Item No	Quantity	Rate	Amount
BILL NO. 10			
GLAZING			
MIRRORS			
1	6mm Float glass silvered back mirror size 450 x 900mm with polished edged, four times holed for and screwed to plugs in wall with chromium plated dome headed screws and cork washers at back	No	6
Carried to Summary			R
Bill No. 10			
GLAZING			
PROVISION OF ELECTRICAL UPGRADE AND ADMIN ACCOMMODATION TO AN EXISTING FACILITY FOR NULATEX SA (PTY) LTD			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 12</u>			
	<u>PROVISIONAL SUMS</u>			
	The tenderer's attention is drawn to the fact that all Provisional Sums stated are nett and do not include builder's discount.			

	<u>Electrical Installation</u>			
1	Provide the sum of R 4 300 000.00 (four million three hundred thousand rand) for electrical installation supplied and fixed complete	Item		4 300 000 00
2	Allow for profit	Item		
3	Allow for attendance	Item		
	<u>Air Conditioning And Ventilation</u>			
4	Provide the sum of R 850 000.00 (eight hundred and fifty thousand rand) for air conditioning and ventilation supplied and fixed complete	Item		850 000 00
5	Allow for profit	Item		
6	Allow for attendance	Item		
	<u>Fire Detection</u>			
7	Provide the sum of R 90 000.00 (ninety thousand rand) for fire detection supplied and fixed complete	Item		90 000 00
8	Allow for profit	Item		
9	Allow for attendance	Item		
	Carried to Collection		R	
	Bill No. 12			
	PROVISIONAL SUMS			
	PROVISION OF ELECTRICAL UPGRADE AND ADMIN ACCOMMODATION TO AN EXISTING FACILITY FOR NULATEX SA (PTY) LTD			

<u>Hot Water Generation (Heat Pump)</u>				
1	Provide the sum of R 100 000.00 (one hundred thousand rand) for hot water generation (heat pump) supplied and fixed complete	Item	100 000	00
2	Allow for profit	Item		
3	Allow for attendance	Item		
<u>Structural Steelwork</u>				
4	Provide the sum of R 300 000.00 (three hundred thousand rand) for structural steelwork supplied and fixed complete	Item	300 000	00
5	Allow for profit	Item		
6	Allow for attendance	Item		
<u>Isopanel Walling/Doors and Viewing Panels</u>				
7	Provide the sum of R 470 000.00 (four hundred and seventy thousand rand) for isopanel walling, doors and viewing panels supplied and fixed complete	Item	470 000	00
8	Allow for profit	Item		
9	Allow for attendance	Item		
<u>Steel Staircase (Reception and Fire Escape)</u>				
10	Provide the sum of R 300 000.00 (three hundred thousand rand) for steel staircase (reception and fire escape) supplied and fixed complete	Item	300 000	00
11	Allow for profit	Item		
Carried to Collection				
Bill No. 12			R	
PROVISIONAL SUMS				
PROVISION OF ELECTRICAL UPGRADE AND ADMIN ACCOMMODATION TO AN EXISTING FACILITY FOR NULATEX SA (PTY) LTD				

1	Allow for attendance	Item		
	<u>Joinery</u>			
2	Provide the sum of R 100 000.00 (one hundred thousand rand) for joinery supplied and fixed complete	Item	100 000	00
3	Allow for profit	Item		
4	Allow for attendance	Item		
	<u>Balustrading</u>			
5	Provide the sum of R 100 000.00 (one hundred thousand rand) for balustrading supplied and fixed complete	Item	100 000	00
6	Allow for profit	Item		
7	Allow for attendance	Item		
	<u>Shower Doors</u>			
8	Provide the sum of R 6 000.00 (six thousand rand) for shower doors supplied and fixed complete	Item	6 000	00
9	Allow for profit	Item		
10	Allow for attendance	Item		
	<u>Budgetary Allowances</u>			
11	Provide the budgetary allowance of R 15 000.00 (fifteen thousand rand) for builders work in connection with electrical/mechanical installation to be adjusted as required	Item	15 000	00
12	Provide the budgetary allowance of R 20 000.00 (twenty thousand rand) for creating an opening for a new fire escape door to be adjusted as required	Item	20 000	00
	Carried to Collection			
	Bill No. 12		R	
	PROVISIONAL SUMS			
	PROVISION OF ELECTRICAL UPGRADE AND ADMIN ACCOMMODATION TO AN EXISTING FACILITY FOR NULATEX SA (PTY) LTD			

Bill No. 12

PROVISIONAL SUMS

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Bill No. 12

PROVISIONAL SUMS

PROVISION OF ELECTRICAL UPGRADE AND ADMIN ACCOMMODATION TO
AN EXISTING FACILITY FOR NULATEX SA (PTY) LTD

<u>FINAL SUMMARY</u>		Page No	Amount
1	PRELIMINARIES	-20-	
2	MASONRY	-21-	
3	CARPENTRY AND JOINERY	-22-	
4	CEILINGS PARTIONS AND ACCESS FLOORING	-25-	
5	FLOOR COVERINGS, PLASTIC LININGS, ETC	-26-	
6	IRONMONGERY	-27-	
7	PLASTERING	-28-	
8	TILING	-29-	
9	PLUMBING AND DRAINAGE	-38-	
10	GLAZING	-39-	
11	PAINTING	-40-	
12	PROVISIONAL SUMS	-44-	
Allow the sum of R 200 000.00 (two hundred thousand rand) for contingencies to be adjusted as required		Item	200 000 00
NETT BUILDING COST			R
ADD : 15% VALUE ADDED TAX			R
Carried to Form of Offer			R
PROVISION OF ELECTRICAL UPGRADE AND ADMIN ACCOMMODATION TO AN EXISTING FACILITY FOR NULATEX SA (PTY) LTD			