

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 1</u> <u>BILL NO. 1</u> <u>PRELIMINARIES</u> The agreement is to be the JBCC Series 2000 Principal Building Agreement, Edition 4.1 May 2005, and other contract documents that together form the contract between the employer and contractor The preliminaries are to be the JBCC Series 2000 Code 2103 Preliminaries prepared by the Joint Building Contracts Committee, May 2005 edition and shall be deemed to be incorporated herein Tenderers are referred to the above mentioned documents for the full intent and meaning of each clause thereof (hereinafter referred to by heading and clause number only) for which such allowance must be made as may be considered necessary 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 Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable") If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value and "T" denotes an amount in proportion to time <u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u>			
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<u>Definitions (A1)</u>					
1	Definitions and interpretation (clause 1) F.....V.....T.....	Item			
<u>Objective and Preparation (A2 to A14)</u>					
2	Offer acceptance and performance (clause 2) F.....V.....T.....	Item			
3	Documents (clause 3) F.....V.....T.....	Item			
4	Design responsibility (clause 4) F.....V.....T.....	Item			
5	Employer's agents (clause 5) F.....V.....T.....	Item			
6	Site representative (clause 6) F.....V.....T.....	Item			
7	Compliance with regulations (clause 7) F.....V.....T.....	Item			
8	Works risk (clause 8) F.....V.....T.....	Item			
9	Indemnities (clause 9) F.....V.....T.....	Item			
10	Works insurances (clause 10) F.....V.....T.....	Item			
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11	Liability insurances (clause 11) F.....V.....T.....	Item		
12	Effecting insurance (clause 12) F.....V.....T.....	Item		
13	NO CLAUSE 13.	N/A		
14	Security (clause 14) F.....V.....T.....	Item		
<u>Execution (A15-A23)</u>				
15	Preparation for and execution of the works (clause 15) F.....V.....T.....	Item		
16	Access to the works (clause 16) F.....V.....T.....	Item		
17	Contract instructions (clause 17) F.....V.....T.....	Item		
18	Setting out of the works (clause 18) F.....V.....T.....	Item		
19	Assignment (clause 19) F.....V.....T.....	Item		
20	Nominated subcontractors (clause 20) F.....V.....T.....	Item		
21	Selected subcontractors (clause 21) F.....V.....T.....	Item		
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22	Employer's Direct Contractors (clause 22) F.....V.....T.....	Item			
23	Contractor's Domestic Sub-Contractors (Clause 23) F.....V.....T.....	Item			
<u>Completion (A24-A30)</u>					
24	Practical completion (clause 24) F.....V.....T.....	Item			
25	Works completion (clause 25) F.....V.....T.....	Item			
26	Final completion (clause 26) F.....V.....T.....	Item			
27	Latent defects liability period (clause 27) F.....V.....T.....	Item			
28	Sectional completion (clause 28) F.....V.....T.....	Item			
29	Revision of date of practical completion (clause 29) F.....V.....T.....	Item			
30	Penalty for non-completion (clause 30) F.....V.....T.....	Item			
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<u>Payment (A31 - A35)</u>					
31	Interim payment to the contractor (clause 31) Clause 31.4.2 is amended by adding the following Materials and goods stored off site shall not be included in the amount authorised for payment Clause 31.9 is amended by replacing 7 calendar days by 30 calendar days F.....V.....T.....	Item			
32	Adjustment to the contract value (clause 32) F.....V.....T.....	Item			
33	Recovery of expense and loss (clause 33) F.....V.....T.....	Item			
34	Final account and final payment (clause 34) F.....V.....T.....	Item			
35	Payment to other parties (clause 35) F.....V.....T.....	Item			
<u>Cancellation (A36-A39)</u>					
36	Cancellation by employer - contractor's default (clause 36) F.....V.....T.....	Item			
37	Cancellation by employer - loss and damage (clause 37) F.....V.....T.....	Item			
38	Cancellation by contractor - employer's default (clause 38) F.....V.....T.....	Item			
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39	Cancellation - cessation of the works (clause 39) F.....V.....T..... <u>Dispute (A40)</u>	Item			
40	Dispute Settlement (clause 40) F.....V.....T..... <u>Substitute Provisions (A41)</u>	Item			
41	State clauses (Clause 41) F.....V.....T..... <u>THE SCHEDULE</u> Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder	Item			
42	Pre-tender information (clause 42) F.....V.....T.....	Item			
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42.1 <u>CONTRACTING AND OTHER PARTIES</u>				
42.1.1 Employer: Northern Cape Department of Roads and Public Works Postal address: 9 -11 Stokroos Street Tebogo Leon Tume Complex, Squarehill Park, Kimberley Code 8301 Tel 053 839 2100 Fax 053 839 2291 E-mail N/A Physical Address: Northern Cape Department of Roads and Public Works 9 -11 Stokroos Street 42.1.2 Principal Agent: Hospital Design Group Postal address: 57 Warden Street, Harrismith Code 9880 Tel 058 622 3942 Fax N/A E-mail N/A				
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42.1.3 Agents service: Architect				
Agent (1)				
Hospital Design Group Postal address: 57 Warden Street Harrismith Code 9880				
Tel 058 622 3942 Fax N/A E-mail N/A				
42.1.4 Agents service: Quantity Surveyor				
Agent (2) Innovex Chartered Quantity Surveyors & Project Managers 257 Jean Avenue Doringkloof Centurion Code 0157				
Tel 012 663 1250 Fax E-mail				
42.1.5 Agents service: Structural & Civil Engineer				
Agent (3) Ekon - Exilite Joint Venture				
Postal address:				
Code				
Tel Fax E-mail				
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42.1.6 Agents service: Electrical Engineer				
Agent (4) MVD Kalahari Consulting Engineers and Town Planners (PTY) LTD 186 Du Toitspan Road Kimberley Code 8300				
Tel 053 831 1889 Fax E-mail				
42.1.7 Agents Service : Mechanical Engineer				
Agent (5) Mekan Consulting Engineers And Deltamech Consulting Mechanical Engineers Joint Venture				
Code				
Tel Fax E-mail				
42.1.8 Agents Service : Landscaping				
Agent (6) Greeninc Landscape Architecture				
Code				
Tel Fax E-mail				
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42.1.9 Agents Service : Health and Safety				
Agent (7) Butler and Associates				
P.O. Box 9324 Brandhof Code 9324				
Tel Fax E-mail				
42.1.10 Agents Service : Environmentalist				
Agent (8) Environmental Management Group				
Code				
Tel Fax E-mail				
<u>42.2 CONTRACT DETAILS</u>				
42.2.1 Works Description:				
Refer to the Notes to Tenderers				
42.2.2 Site Description:				
Refer to the Notes to Tenderers				
42.2.3 Work or installations by direct contractors:				
N/A				
42.2.4 This agreement is for a government contract where there are specific options that are applicable to a State organ only				
Yes				
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42.2.5 Date on which possession of the site is intended to be given: Date to be determined by contracting parties 42.2.6 (15.3) Period for the commencement of the works after the contractor takes possession of the site <i>Five working days (to be agreed)</i> 42.2.7 For the works as a whole. Intended date of practical completion and the penalty per calendar day To be determined by contracting parties R34 500.00 per day <i>Penalty Amount</i> 42.2.8 For the works in sections: Intended date of practical completion and the penalty per calendar day N/A 42.2.9 The law applicable to this agreement shall be that of Republic of South Africa			
<u>42.3 INSURANCES</u>			
42.3.1 Contract works insurance to be effected by: <i>Contractor:</i> <i>For the Sum of R Contract Sum + 10% with.</i> <i>With a deductible of not exceeding 5% of each and every claim</i> 42.3.2 Supplementary insurance is required: <i>Yes to the minimum value of the Contract Sum +10%</i> 42.3.3 Public liability insurance to be effected by: <i>Contractor:</i> <i>For the Sum of R5 000 000.00</i> <i>With a deductible not exceeding 5% of each and every claim</i>			
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42.4 DOCUMENTS				
42.4.1 Waivers of contractors lien or right of continuing possession is required	Yes			
42.4.2 Number of construction document copies to be supplied to the contractor free of charge:				
3 Number of construction copies				
42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with:				
Standard System of Measuring Building Work issued by the Association of South African Quantity Surveyors Sixth edition (revised), effective date 1 April 1999 and the Tenderer's attention is specifically drawn to the 'shall be deemed to include' clauses that have to be read in conjunction with the applicable items				
42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days	5 Number of			
42.4.5 JBCC Engineering General Conditions are to be included in the contract documents :	No			
42.4.6 The contract value is to be adjusted using CPAP				

42.4.7	Details of changes made to the provision of JBCC standard documentation: <i>[An addendum is to be attached should the space provided be insufficient]</i>			
	Section A			
	Clause 31 Amended			
	Section B			
	Clause B2.5 Amended			
	<u>SECTION B: PRELIMINARIES</u>			
	<u>Definitions and interpretation (B1)</u>			
43	Definition and interpretation (B1.1 - B1.4.6)			
	F.....V.....T.....	Item		
	<u>Documents (B2)</u>			
44	Checking of documents (B2.1)			
	F.....V.....T.....	Item		
45	Provisional bills of quantities (B2.2)			
	See Schedule of Variables (B12)			
	F.....V.....T.....	Item		
46	Availability of construction documentation (B2.3)			
	See Schedule of Variables			
	F.....V.....T.....	Item		
47	Interests of agents (B2.4)			
	F.....V.....T.....	Item		
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48	Priced documents (B2.5) Notwithstanding the provisions of this clause, the contractor shall deposit/submit the priced documents within the time as stated in A42.4.4 of the Schedule of Contract Variables Where appropriate the unit rates for similar items in the bills of quantities should be the same Prior to signing of the Principal Building Agreement the Principal Agent shall be at liberty to make such adjustments to individual rates, whether they are Subcontractor's rates or not, as will eliminate errors or discrepancies or which he considers to be imbalanced, unreasonable or unrealistic rates, without altering the tender sum F.....V.....T.....	Item			
49	Tender submission (B2.6) F.....V.....T..... <u>The site (B3)</u>	Item			
50	Defined works area (B3.1) F.....V.....T.....	Item			
51	Geotechnical investigation (B3.2) F.....V.....T.....	Item			
52	Inspection of the site (B3.3) F.....V.....T.....	Item			
53	Existing premises occupied (B3.4) F.....V.....T.....	Item			
54	Previous work - dimensional accuracy (B3.5) F.....V.....T.....	Item			
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55	Previous work - defects (B3.6) F.....V.....T.....	Item		
56	Services - known (B3.7) F.....V.....T.....	Item		
57	Services - unknown (B3.8) F.....V.....T.....	Item		
58	Protection of trees etc (B3.9) F.....V.....T.....	Item		
59	Articles of value (B3.10) F.....V.....T.....	Item		
60	Inspection of adjoining properties etc (B3.11) F.....V.....T.....	Item		
<u>Management of contract (B4)</u>				
61	Management of the works (B4.1) The Contractor shall obtain all necessary particulars of Subcontractors'work timeously so that provision for recesses, chases, holes, etc, can be made F.....V.....T.....	Item		
62	Programme for the works (B4.2) F.....V.....T.....	Item		
63	Progress meetings (B4.3) F.....V.....T.....	Item		
64	Technical meetings (B4.4) F.....V.....T.....	Item		
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65	Labour and Plant records (B4.5) F.....V.....T.....	Item			
<u>Samples, Shop Drawings and Manufacturer's Instructions (B5)</u>					
66	Samples of materials (B5.1) F.....V.....T.....	Item			
67	Workmanship samples (B5.2) F.....V.....T.....	Item			
68	Shop drawings (B5.3) F.....V.....T.....	Item			
69	Compliance with Manufacturer's Instructions (B5.4) F.....V.....T.....	Item			
<u>Temporary works and plant (B6)</u>					
70	Deposits and fees (B6.1) F.....V.....T.....	Item			
71	Enclosure of the works (B6.2) F.....V.....T.....	Item			
72	Advertising (B6.3) See Schedule of Variances (B12) F.....V.....T.....	Item			
73	Plant, equipment, sheds and offices (B6.4) F.....V.....T.....	Item			
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74	Main notice board (B6.5) F.....V.....T.....	Item		
75	Subcontractors' notice board (B6.6) F.....V.....T.....	Item		
<u>Temporary services (B7)</u>				
76	Location (B7.1) F.....V.....T.....	Item		
77	Water (B7.2) See Schedule of Variables (B12) F.....V.....T.....	Item		
78	Electricity (B7.3) See Schedule of Variables (B12) F.....V.....T.....	Item		
79	Telecommunication facilities (B7.4) F.....V.....T.....	Item		
80	Ablution facilities (B7.5) See Schedule of Variables (B12) F.....V.....T.....	Item		
<u>Prime cost amounts (B8)</u>				
81	Responsibility for prime cost amounts (B8.1) F.....V.....T.....	Item		
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<u>Attendance on N/S Subcontractors (B9)</u>					
82	General attendance (B9.1) F.....V.....T.....	Item			
83	Special attendance (B9.2) F.....V.....T.....	Item			
84	Commissioning - Fuel, water and power (B9.3) F.....V.....T.....	Item			
<u>Financial aspects (B10)</u>					
<u>Statutory taxes, duties and levies (B10.1)</u>					
<u>In addition to the provisions of clause B10.1, all individual amounts in the bills of quantity exclude Value Added Tax (VAT) is to be calculated as a lump sum and added to the total value of all values in the Summary under the item provided for VAT</u>					
85	Payment of preliminaries (B10.2) Payment of preliminaries (B10.2) See Schedule of Variables (B12) F.....V.....T.....	Item			
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86	Adjustment of preliminaries (B10.3)				
	Notwithstanding the provisions of sub-clause B10.3.1 (Option A) and for the purpose of adjusting the Time Related amount, only revision of the date for practical completion granted by the Employer for variants, omissions, additions and substitutions referred to in sub- clauses 29.2 and 29.3 of the Principal Building Agreement, shall be taken into account As an allowance, the first ten (10) working days of the construction period is regarded as an administration period and shall be deducted from both the initial and the revised construction periods for calculation purposes F.....V.....T.....	Item			
87	Payment certificate cash flow (B10.4)				
	F.....V.....T..... <u>General (B11)</u>	Item			
88	Protection of works (B11.1)				
	F.....V.....T.....	Item			
89	Protection/isolation of existing/sectionally occupied works (B11.2)				
	F.....V.....T.....	Item			
90	Security of the Works (B11.3)				
	F.....V.....T.....	Item			
91	Notice before covering work (B11.4)				
	F.....V.....T.....	Item			
92	Disturbance (B11.5)				
	F.....V.....T.....	Item			
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Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
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93	Environmental Disturbance (B11.6) F.....V.....T.....	Item		
94	Works cleaning and clearing (B11.7) F.....V.....T.....	Item		
95	Vermin (B11.8) F.....V.....T.....	Item		
96	Overhand work (B11.9) F.....V.....T.....	Item		
97	Instruction manuals and guarantees (B11.10) F.....V.....T.....	Item		
98	As built information (B11.11) F.....V.....T.....	Item		
99	Tenant Installations (B11.12) F.....V.....T.....	Item		
	<u>Schedule of variables (B12)</u>			
100	Pre-tender information (B12.1) F.....V.....T.....	Item		
101	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional: Yes F.....V.....T.....	Item		
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102	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete Yes F.....V.....T.....	Item			
103	12.1.3 Interest of agents (B2.4) N/A	Item			
	12.1.4 Defined works area (B3.1) Yes				
	12.1.5 Geotechnical investigation (B3.2) N/A				
	12.1.6 Existing premises occupied (B3.4) N/A				
104	12.1.7 Previous work - dimensional accuracy (B3.4) Yes F.....V.....T.....	Item			
105	12.1.8 Previous work - defects (B3.5) Yes F.....V.....T.....	Item			
	12.1.9 Services - known (B3.7) Yes F.....V.....T.....				
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106	12.1.10 Protection of trees (B3.9)	Yes			
	F.....V.....T.....	Item			
107	12.1.11 Inspection of adjoining properties (B3.11)	N/A			
	F.....V.....T.....	Item			
108	12.1.12 Enclosure of the works (B6.2)	N/A			
	F.....V.....T.....	Item			
109	12.1.13 Offices (B6.4.3)	Yes			
	F.....V.....T.....	Item			
110	12.1.14 Main notice board (B6.5)	Yes			
	F.....V.....T.....	Item			
	12.1.15 Subcontractors notice board (B6.6) A notice board is required	No			
111	12.1.16 Water (B7.2)				
	Yes- Option A (by contractor) No - Option B (by employer - free of charge) No - Option C (by employer - metered) F.....V.....T.....	Item			
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112	12.1.17 Electricity (B7.3) Yes- Option A (by contractor) No - Option B (by employer - free of charge) No - Option C (by employer - metered) F.....V.....T.....	Item			
113	12.1.18 Telecommunications (B7.4) Yes- Telephone Yes- E-mail F.....V.....T.....	Item			
114	12.1.19 Ablution facilities (B7.5) Yes- Option A (by contractor) No - Option B (by employer - free of charge) F.....V.....T.....	Item			
115	12.1.20 Protection of existing/sectionally occupied works (B11.2) Protection is required: Yes F.....V.....T..... 12.1.21 Special attendance (B9.2) Subcontractors (1) details: N/A F.....V.....T..... 12.1.22 Protection of the works (B11.1) N/A 12.1.23 Disturbance (B11.5) N/A 12.1.24 Environmental Disturbance (B11.6) N/A Carried to Collection Section No. 1 Bill No. 1 Preliminaries	Item			
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<u>Post tender information (B12.2)</u>					
	12.2.1 Payment of preliminaries				
	No - Option A (prorated)				
	Yes - Option B (calculated)				
116	12.2.2 Adjustment of preliminaries				
	Yes - Option A (three categories)				
	No - Option B (detailed breakdown)				
	F.....V.....T.....	Item			
	12.2.3 Additional agreed preliminaries items				
	N/A				
<u>SECTION C: SPECIFIC PRELIMINARIES</u>					
C1 INSPECTION OF WORKS					
117	Allow for three weeks inspection of works prior to commencement of works, all findings shall be commutated to Project Manager for further contract instructions				
	N/A	Item			
118	Allow for four weeks remedial of works before proceeding with works				
	N/A	Item			
119	All construction processes are to be strictly carried out according to the latest revision of Department of Public Works Construction Specifications PW371				
	F.....V.....T.....	Item			
<u>Community Liaison Officer (CLO)</u>					
120	Provide the amount of R192 000 .00 (One Hundred and Ninety Two Thousand Rand) NET for CLO	Item			
121	Profit for item	Item			
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122	Allow for general attendance <u>JBCC SERIES 2000 EDITION 5.0</u> <u>EXECUTION (15-23)</u>	Item		
123	Preparation for and execution of the works (Clause 15.0) F.....V.....T..... 15.1 After acceptance of the tender or negotiated amount the contractor shall submit to the principal agent within the period stated in the contract data: 15.1.1 The priced document with all items properly priced, extended and cast. Priced items are deemed to include all costs, overheads and profit. The principal agent may instruct the contractor to adjust prices which are considered to be imbalanced and unreasonable and to eliminate errors and discrepancies. Such adjustments shall be affected to the approval of the principal agent and shall not change the contract sum and 15.1.2 Such other documents and information identified in the contract data. 15.2 The employer shall: 15.2.1 Give possession of the site to the contractor on the date stated in the contract data and 15.2.2 Where required in the contract data, provide an advance payment on receipt of an advance payment guarantee from the contractor, and 15.2.3 Inform the contractor of all cash advances and the quantum of each to be provided to n/s subcontractors, and	Item		
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15.3 On being given possession of the site the contractor shall commence the works within the working days period stated in the contract data and, subject to 31.15-16, shall proceed continuously, industriously and with due skill and appropriate physical resources to bring the works to: 15.3.1 No clause 15.3.2 Practical completion [24.0], and 15.3.3 Works completion [25.0], and 15.3.4 Final completion [26.0] 15.4 Where completion in sections is required in terms of the contract data the further provisions of 28.0 shall be applicable 15.5 The contractor shall provide everything necessary for the proper execution of the works and shall carry cut and complete the works in compliance with the contract documents, using materials and workmanship of the quality and standards specified therein, provided that such quality and standards shall be to the reasonable satisfaction of the principal agent 15.6 The contractor shall: 15.6.1 Prepare a programme of the works together with a schedule of outstanding construction information in sufficient detail to enable the principal agent to assess the progress of the works and timeously provide the necessary contract instructions, and 15.6.2 Coordinate the n/s subcontractor's and direct contractors' programmes with his own, and 15.6.3 Continuously revise and modify the programme and the schedule of outstanding construction information and issue copies timeously to the principal agent				
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	15.7 The contractor shall provide all reasonable assistance to the principal agent in the preparation of cash flow projections where required by the employer. The projections shall be based on the contractor's programme and shall be updated as and when necessary. 15.8 The principal agent and contractor shall hold regular meetings related to the progress of the works and at such other times as may be necessary. The principal agent shall record and distribute the minutes of the meetings. At the request of the principal agent or the contractor meetings shall be held to deal with technical and n/s subcontractor' coordination matters 15.9 The contractor shall maintain daily records of the number and categories of persons and plant employed on the works and shall provide copies thereof to the principal agent on request <u>SUMMARY OF CATEGORIES</u> Category : Fixed R Category : Value R Category : Time R Carried to Collection Section No. 1 Bill No. 1 Preliminaries				
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Provisional Bills of Quantities
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**Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works**

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u> <u>BILL NO. 1</u> <u>FOUNDATIONS</u> <u>The tenderer is referred to the relevant Clauses in the separate document "Model Preambles for Trades (1999 Edition)" and to the "Architectural and Functional General Details" all in accordance with drawings and specifications and must take all requirements that are described therein into account in the cost rates</u> <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". The nature of the ground is assumed to be gravel, therefore "earth", but possibly interspersed with "soft rock". The nature of the ground is assumed to be silty clay with loose river boulders varying in size up to approximately 450mm diameter, therefore "earth", but possibly interspersed with "hard rock". Trial holes indicate that the nature of the ground is silty clay to a depth of approximately 500mm with fine to medium loose sandy material below, therefore "earth". The trial holes also indicate that the water table is at a maximum depth of approximately 1000mm.			
	Carried to Collection		R	
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A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured <u>Transport of Earthworks:</u> The haulage of all material shall, for payment purposes, be regarded as freehaul regardless of distance hauled, and shall apply to: (i) All material excavated on site and used for filling on site (ii) All material excavated on site and stockpiled on site Descriptions for carting away of surplus excavated material includes for loading onto trucks directly from the excavations or from the stockpiles, and carting away to a dump site. The Contractor is to include for all dumping fees in the rate of the relevant item. The Contractor shall engage the services of an approved independent testing laboratory for the testing of materials, and quality testing of layerworks, so as to ensure that his work conforms to the specifications. Results of these tests shall be submitted to the Engineer timeously. Tests shall be carried out by the Contractor at a rate of at least 4 tests per 1 000m2 of each layer or in accordance with instructions issued by the Engineer. The tendered unit rates shall be deemed to include the cost of all control testing, and no additional claims shall be entertained in this respect. Should control testing arranged by the Contractor not meet the requirements of the Specification, the Engineer shall have the right to conduct all such other testing at the Contractor's expense.				

<u>Filling</u>	Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material				
<u>Working Space</u>	Working space for formwork to sides of all concrete, except columns, shall be measured only where the concrete face is less than 750mm from the face of the measured excavations Working space for formwork to sides of columns shall be measured for the width of the column face only where both: the top of the column base is more than 1500mm below the commencing level of the excavations and the column face is less than 500mm from the face of the measured excavations No claim shall be considered for any working space for formwork to concrete other than as above described or for working space beyond the sides of trench excavations for the building of brick or block walls Descriptions of excavations for working space shall be deemed to include for any additional risk of collapse so incurred and for the returning and compacting of the excavated material as described				
<u>Carting away of excavated material</u>	Descriptions of carting away of excavated material shall be deemed to include for bulking and loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site				
Carried to Collection				R	
Section No. 2 Bill No. 1 Foundations					

	<u>Subterranean water:</u> No information regarding subterranean water is available. The tenderer must acquaint himself of the presence and depth of subterranean water and allow thereof in his prices <u>EXCAVATION, FILLING, ETC</u> <u>Open face excavation in earth</u>				
1	To reduce levels under buildings	m3	3,157		
	<u>Excavation in earth not exceeding 2m deep</u>				
2	Trenches	m3	2,897		
3	Holes	m3	1,189		
4	Lift shaft bases	m3	41		
5	Pool and sump	m3	554		
6	Tree pits	m3	40		
	<u>Excavation in earth exceeding 4m deep not exceeding 2m deep</u>				
7	Pool and sump	m3	158		
	<u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 95% Mod AASHTO density</u>				
8	Exceeding 500mm and not exceeding 1500mm deep for placing and removing formwork to walls etc. 800mm away from excavated face	m3	78		
9	Exceeding 1500mm and not exceeding 3000mm deep for placing and removing formwork to walls etc. 800mm away from excavated face	m3	60		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 1				
	Foundations				

	<u>Extra over trench and hole excavations in earth for excavations in</u>				
10	Soft rock	m3	434		
11	Hard rock	m3	217		
	<u>Extra over all excavations for spreading and levelling</u>				
12	Surplus material from excavations and/or stock piles on site with in a 200m radius as directed by the Engineer	m3	1,624		
13	Spread and level material obtained from stockpile, over site, as directed by Engineer	m3	121		
	<u>Risk of collapse of excavations</u>				
14	Sides of trench and hole excavations not exceeding 1,5m deep	m2	10,718		
15	Sides of trench and hole excavations exceeding 1,5m deep	m2	860		
	<u>Keeping excavations free of water</u>				
16	Keeping excavations free of all water other than subterranean water		Item		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>				
17	Backfilling to trenches, holes, etc	m3	2,858		
18	Under floors, paving etc	m3	42		
	<u>Earth filling of G5 material supplied by the contractor compacted to 98% Mod. AASHTO density</u>				
19	Under floors, etc	m3	2,618		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 1				
	Foundations				

<u>Compaction of surfaces</u>					
20	Rip and recompact ground surface including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASTHO density	m2	13,891		
<u>TESTS</u>					
<u>Prescribed density tests on filling</u>					
Note : Prices for soil tests must be included in the contractor's rates for earthworks items.					
Additional soil tests to be carried out as directed by the Engineer:					
21	"Modified AASTHO Density" tests	No	260		
<u>PROTECTION AGAINST TERMITES</u>					
<u>Soil poisoning</u>					
22	Soil insecticide under floors, paving, etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	10,533		
23	Soil insecticide to bottoms of trenches, holes, etc	m2	14,739		
<u>CONCRETE</u>					
<u>UNREINFORCED CONCRETE</u>					
<u>15 MPa/19 mm concrete in</u>					
24	Surface blinding under footings and bases.	m3	184		
<u>25MPa/20mm concrete</u>					
25	Filling to cavity of brick work (elsewhere measured)	m3	325		
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
Carried to Collection				R	
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	<u>30 MPa/19mm Concrete in:</u>				
26	Strip footings	m3	644		
27	Bases	m3	220		
	<u>REINFORCED CONCRETE</u>				
	<u>30 MPa/19 mm concrete in</u>				
28	Columns	m3	37		
29	Stub columns	m3	2		
30	Surface beds	m3	16		
31	Surface beds on insulation	m3	1,317		
32	Ramps on waterproofing	m3	6		
33	Steps	m3	11		
34	Walls	m3	6		
35	Lift shaft floor and walls	m3	37		
36	Pool floor on waterproofing	m3	112		
37	Pool and sump walls	m3	44		
	<u>CONCRETE SUNDRIES</u>				
	<u>Test Blocks:</u>				
38	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes.	No	759		
	<u>Finishing top surfaces of concrete to an even surface with a wood float:</u>				
39	Surface beds, etc.	m2	6,787		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 1				
	Foundations				

	<u>Finishing top surfaces of concrete smooth with a power float and curing</u>				
40	Surface beds, etc.	m2	3,746		
	<u>Finishing top surfaces of concrete to an evenly ribbed non-slip surface with a "stiff broom" finish</u>				
41	Ramps	m2	32		
	<u>Insulation</u>				
42	20mm Isoboard insulation under surface beds on waterproofing	m2	9,675		
	<u>FORMWORK</u>				
	<u>ROUGH FORMWORK</u>				
	<u>Rough formwork to sides:</u>				
43	Columns	m2	541		
44	Stub columns	m2	21		
45	Walls	m2	55		
46	Lift shaft walls	m2	38		
47	Pool and sump walls	m2	350		
48	Edges, risers, ends and reveals exceeding 300 mm high or wide.	m2	94		
49	Edges, risers, ends and reveals not exceeding 300 mm high or wide circular on plan.	m	98		
	<u>Rough formwork to circular columns</u>				
50	300mm Diameter column 1300m high	No	21		
	<u>MOVEMENT JOINTS, ETC</u>				
Carried to Collection				R	
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	<u>10mm Isolation joints formed of bitumen impregnated soft board:</u>				
51	Between vertical concrete and brick surfaces not exceeding 300 mm high or wide	m	2,557		
	<u>Saw cut joints</u>				
52	30 x 3mm Saw cut joints in two operations in top of concrete.	m	5,495		
	<u>REINFORCEMENT</u>				
	<u>Mild steel rod reinforcement to structural concrete work</u>				
53	8mm Diameter bars.	t	2.28		
54	10mm Diameter bars.	t	3.74		
55	12mm Diameter bars.	t	2.42		
	<u>High tensile steel rod reinforcement to structural concrete work in foundations</u>				
56	10mm Diameter bars.	t	7.23		
57	12mm Diameter bars.	t	10.84		
58	16mm Diameter bars.	t	18.03		
59	20mm Diameter bars.	t	18.84		
60	25mm Diameter bars.	t	10.85		
61	32mm Diameter bars.	t	10.85		
	<u>Fabric reinforcement with minimum 400mm wide overlaps</u>				
62	Type Ref 395 reinforcement in concrete surface beds, slabs, etc.	m2	8,378		
	<u>MASONRY</u>				
Carried to Collection				R	
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	<u>Brickwork of extra hard burnt clay bricks including grouting in joints</u>				
63	One brick walls.	m2	1,041		
64	One brick walls circular on plan	m2	54		
65	One and a half brick walls	m2	40		
66	270mm Cavity walls formed of two half brick skins including wire ties	m2	1,245		
67	270mm Cavity walls formed of two half brick skins including wire ties circular on plan	m2	94		
68	330mm Cavity walls formed of two half brick skins including butterfly ties	m2	1,381		
69	330mm Cavity walls formed of two half brick skins including butterfly ties circular on plan	m2	22		
70	380mm Cavity walls formed of two half brick skins including butterfly ties	m2	13		
71	440mm Cavity walls formed of two half brick skins including fishtail ties	m2	144		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Brick reinforcement</u>				
72	150mm Wide reinforcement built in horizontally	m	12,447		
	<u>FACE BRICKWORK</u>				
	<u>"Corobrik Imperial" FBX face bricks or equal and approved 222 x 105 x 73mm in stretcher bond with cavity as shown on plan with well raked and smoothed joints (85mm gauge). Colour and type to Architect's approval</u>				
73	Extra over ordinary brickwork for face brickwork.	m2	1,558		
	<u>WATERPROOFING</u>				
	Carried to Collection			R	
	Section No. 2				
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	Foundations				

74	<u>One layer of 500 micron green polyethylene damp-proof membrane sealed at joints</u>				
	Under surface beds	m2	11,271		
	<u>Prepare and apply 2 layers "Jointex by Sondor", or equal and approved, lightweight, cross-linked, closed cell polyethylene joint former with hinged temporary blocking piece including raking out joint filler as necessary, etc. in strict accordance with the manufacturer's instructions to:</u>				
75	10mm Expansion joints	m	347		
	<u>FABRIC BLANKET</u>				
76	"Geotextile PT110" or equal and approved geofabric blanket under and on no fine concrete layer, including stretching	m2	584		
Carried to Collection					
Section No. 2 Bill No. 1 Foundations					R

**Provisional Bills of Quantities
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Northern Cape Department of Roads and Public Works**

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u> <u>BILL NO. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Cost of tests</u> The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SANS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Engineer. (Test cubes are measured separately) <u>Formwork</u> Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself			
	Carried to Collection		R	
	Section No. 2 Bill No. 2 Concrete Formwork and Reinforcement			

Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"					
<u>CONCRETE</u>					
<u>UNREINFORCED CONCRETE</u>					
<u>25MPa/20mm concrete</u>					
1	Filling to cavity of brick work (elsewhere measured)	m3	9		
<u>30MPa/20mm concrete</u>					
2	Filling to steel column (elsewhere measured)	m3	3		
<u>REINFORCED CONCRETE</u>					
<u>30MPa/20mm concrete</u>					
3	Columns	m3	112		
4	Stub columns	m3	13		
5	Slabs	m3	1,381		
6	Beams	m3	235		
7	Upstand beam	m3	84		
Carried to Collection					
Section No. 2					
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Concrete Formwork and Reinforcement					

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8	Ring beams	m3	58		
9	Walls	m3	53		
10	Lift shaft walls	m3	45		
11	Plinths	m3	17		
12	Ramps	m3	5		
13	Seats	m3	16		
14	Thresholds	m3	8		
15	Stairs including landings, beams and inverted beams	m3	29		
16	Steps, urinal steps, cupboard platforms, etc	m3	7		
	<u>TEST BLOCKS</u>				
	<u>Test blocks</u>				
17	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes	Sets	490.0		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing exposed surfaces of smooth formwork</u>				
18	Hack off projections, fill in and rub down concrete walls or columns as necessary and leave ready for painting	m2	1,169		
	<u>In-situ lintels</u>				
19	155mm Wide x 75mm high in-situ 25Mpa concrete with 6mm stone mix lintel including removable shutters where required	m	138		
20	155mm Wide x 160mm high in-situ 25Mpa concrete with 6mm stone mix lintel including removable shutters where required	m	56		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 2				
	Concrete Formwork and Reinforcement				

21	175mm Wide x 75mm high in-situ 25Mpa concrete with 6mm stone mix lintel including removable shutters where required	m	4		
	<u>In-situ window cills</u>				
22	185mm Wide in-situ 25Mpa concrete with 6mm stone mix window cill 49mm high on window side and sloping to 35mm thick with 40mm overhang and 10mm drip joint with 30mm wide x 14mm deep cut out to receive window frame (elsewhere) finished on top with steel float including removable shutters where required to architects details P2A-HDG 042-003	m	461		
23	185mm Wide in-situ 25Mpa concrete with 6mm stone mix window cill 49mm high on window side and sloping to 35mm thick with 40mm overhang and 10mm drip joint with 30mm wide x 14mm deep cut out to receive window frame (elsewhere) finished on top with steel float including removable shutters where required circular on plan to architects details P2A-HDG 042-003	m	40		
24	340mm Wide in-situ 25Mpa concrete with 6mm stone mix window cill 170mm high with 40mm overhang and 10mm drip joint with 30mm wide x 14mm deep cut out to receive window frame (elsewhere) finished on top with steel float including removable shutters where required	m	18		
25	420mm Wide in-situ 25Mpa concrete with 6mm stone mix window cill 170mm high on top of 440mm cavity wall finished on top with steel float including removable shutters where required	m	67		
	<u>GROOVES, ETC</u>				
	<u>Grooves, channels, mortices, sinkings, etc. in concrete</u>				
26	230 x 230 x 90mm Deep junction box in to of surface bed, slab, etc	No	16		
27	300 x 300 x 90mm Deep power outlet box in to of surface bed, slab, etc	No	80		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 2				
	Concrete Formwork and Reinforcement				

	<u>NON-SHRINK GROUT</u>				
	Non-shrink grout shall be 1:2 cement and sand mixture, mixed dry until uniform in colour before adding water				
28	20mm Bedding under base plates, size 250 x 250mm wide	No	34		
	<u>Casting in of holding down bolts</u>				
29	Provide template for and embed set of four 16mm diameter x 190mm long steel holding down bolts (bolts elsewhere) into top of concrete column in exact position	No	34		
	<u>FORMWORK</u>				
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
	<u>Rough formwork to sides of</u>				
30	Walls	m2	96		
31	Inner face of shaft walls	m2	307		
32	Square or rectangular columns propped up not exceeding 3,5m above bearing level.	m2	1,554		
33	Square or rectangular stub columns	m2	221		
34	Beams propped up exceeding 3,5m and not exceeding 5m above bearing level.	m2	80		
35	Edges, risers, ends and reveals exceeding 300 mm high or wide	m2	553		
36	Edges, risers, ends and reveals exceeding 300 mm high or wide circular on plan	m2	98		
37	Raking and stepped outer edge of stairs exceeding 350mm high extreme	m2	15		
38	Edges, risers, ends and reveals not exceeding 300 mm high or wide.	m	2,643		
	Carried to Collection			R	
	Section No. 2				
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39	Edges, risers, ends and reveals not exceeding 300 mm high or wide circular on plan	m	16		
	<u>Rough formwork to soffits</u>				
40	Soffits of slabs not exceeding 250mm thick propped up exceeding 1,5m and not exceeding 3,5m above bearing level	m2	252		
41	Soffits of slabs exceeding 250mm thick including horsing-up exceeding 3,5m and not exceeding 5,0m above bearing level	m2	5,237		
42	Soffits of lift shafts slab including horsing-up exceeding 6,5m and not exceeding 8m above bearing level	m2	6		
43	Soffits of lift shafts slab including horsing-up exceeding 11m and not exceeding 12,5m above bearing level	m2	7		
	<u>Rough formwork to sides and soffits of</u>				
44	Isolated beams propped up exceeding 3,5m and not exceeding 5m above bearing level	m2	1,328		
45	Isolated beams propped up exceeding 3,5m and not exceeding 5m above bearing level circular on plan	m2	32		
46	Isolated beams propped up exceeding 5m and not exceeding 6,5m above bearing level	m2	204		
47	Isolated beams propped up exceeding 5m and not exceeding 6,5m above bearing level circular on plan	m2	67		
48	Sloping and stepped outer edges of stairs 400mm high extreme	m	29		
49	Landings	m2	28		
50	Stairs with sloping soffits	m2	61		
Carried to Collection				R	
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Concrete Formwork and Reinforcement					

	<u>Rough formwork to circular columns</u>				
51	300mm Diameter column 3000mm high	No	3		
52	300mm Diameter column 3850mm high	No	14		
53	300mm Diameter column 4000mm high	No	4		
	<u>Boxing in or out rough formwork to form</u>				
54	25 x 25mm Vertical chamfer at corner of column.	m	7,524		
	<u>Rough formwork to form</u>				
55	Opening not exceeding 1m girth through 255mm slab.	No	392		
	<u>Sleeves</u>				
56	50mm Diameter PVC sleeve exceeding 250mm and not exceeding 500mm long cast into concrete	No	264		
57	150mm Diameter PVC sleeve exceeding 250mm and not exceeding 500mm long cast into concrete	No	153		
	<u>REINFORCEMENT</u>				
	<u>Mild steel reinforcement</u>				
58	8mm Diameter bars	t	3.64		
59	10mm Diameter bars	t	9.12		
60	12mm Diameter bars	t	5.47		
	<u>High tensile steel reinforcement</u>				
61	10mm Diameter bars	t	16.43		
62	12mm Diameter bars	t	24.63		
63	16mm Diameter bars	t	41.53		
64	20mm Diameter bars	t	32.52		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 2				
	Concrete Formwork and Reinforcement				

65	25mm Diameter bars	t	24.63		
66	32mm Diameter bars	t	24.63		
<u>High tensile steel dowel bars</u>					
67	12mm Diameter mild steel dowel bar 275mm long with one end embedded 135mm deep in side of concrete staircase and other end cast into concrete wall including hole through formwork	No	32		
				R	
Carried to Collection					
Section No. 2 Bill No. 2 Concrete Formwork and Reinforcement					

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Section No. 2 Bill No. 2 Concrete Formwork and Reinforcement <u>COLLECTION</u> Total Brought Forward from Page No.				
Carried Forward to Summary of Section No. 2				
Section No. 2 Bill No. 2 Concrete Formwork and Reinforcement				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u> <u>BILL NO. 3</u> <u>MASONARY</u> <u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Hollow walls, etc.</u> Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole. <u>Wall ties for blockwork</u> Wall ties shall be polypropylene "Permaties" complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other. <u>SUPERSTRUCTURE</u> <u>Brickwork of SABS approved clay NFX bricks (14 MPa nominal compressive strength) in class II mortar in loadbearing walls etc.:</u>			
1	Mass brickwork in tapered wall circular on plan	m3	47	
2	Half brick walls	m2	1,706	
3	Half brick lining to concrete walls including wire ties	m2	209	
	Carried to Collection			
	Section No. 2 Bill No. 3 Masonry			

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4	Half brick lining to concrete walls including wire ties circular on plan	m2	3		
5	Half brick wall kerb	m2	10		
6	430 x 430mm Half brick hollow column	m	19		
7	One brick walls	m2	5,255		
8	One brick walls circular on plan	m2	4		
9	One and a half brick walls	m2	21		
10	One and a half brick walls circular on plan	m2	2		
11	270mm Brick walls	m2	10		
12	270mm Brick walls in beamfilling	m2	231		
13	270mm Brick walls in beamfilling circular on plan	m2	2		
14	385mm Brick walls	m2	5		
15	440mm Brick walls	m2	2		
16	270mm Cavity walls formed of two half brick skins including wire ties	m2	4,499		
17	270mm Cavity walls formed of two half brick skins including wire ties circular on plan	m2	90		
18	270mm Cavity walls formed of two half brick skins including wire ties (loadbearing)	m2	6		
19	330mm Cavity walls formed of two half brick skins including wire ties	m2	3,053		
20	330mm Cavity walls formed of two half brick skins including wire ties circular on plan	m2	52		
21	380mm Cavity walls formed of two half brick skins including wire ties	m2	228		
Carried to Collection				R	
Section No. 2 Bill No. 3 Masonry					

22	440mm Cavity walls formed of two half brick skins including wire ties	m2	579			
23	440mm Cavity walls formed of two half brick skins including wire ties (loadbearing)	m2	33			
<u>BRICKWORK SUNDRIES</u>						
<u>Closing of cavity in brickwork</u>						
24	Splayed mortar fillet two courses high in 60mm cavity	m	1,921			
25	Splayed mortar fillet two courses high in 100mm cavity	m	946			
26	Splayed mortar fillet two courses high in 220mm cavity	m	347			
27	Rough raking cutting	m2	517			
28	Closing 60mm cavity of hollow wall vertically with brickwork half brick wide	m	1,180			
29	Closing 100mm cavity of hollow wall vertically with brickwork half brick wide.	m	969			
30	Closing 220mm cavity of hollow wall vertically with brickwork half brick wide.	m	186			
31	Closing 60mm cavity of hollow wall horizontally with two courses of brickwork	m	359			
32	Closing 100mm cavity of hollow wall horizontally with two courses of brickwork	m	206			
33	Closing 220mm cavity of hollow wall horizontally with two courses of brickwork	m	17			
<u>Brick reinforcement</u>						
34	75mm Wide reinforcement built in horizontally.	m	5,864			
35	150mm Wide reinforcement built in horizontally.	m	17,855			
Carried to Collection				R		
Section No. 2						
Bill No. 3						
Masonry						

	<u>Prestressed concrete lintels</u>				
36	115mm Wide lintels in lengths not exceeding 3m.	m	468		
37	115mm Wide lintels in lengths exceeding 4.5m and not exceeding 6m	m	19		
	<u>FACE BRICKWORK</u>				
	<u>"Corobrik Imperial" FBX face bricks or equal and approved 222 x 105 x 73mm in stretcher bond with cavity as shown on plan with well raked and smoothed joints (85mm gauge). Colour and type to Architect's approval</u>				
38	Extra over ordinary brickwork for face brickwork	m2	4,696		
39	Extra over ordinary brickwork for face brickwork circular on plan	m2	25		
	<u>FACE BRICKWORK COPINGS, SILLS, ETC.</u>				
	<u>"Corobrik Imperial" FBX face bricks or equal and approved 222 x 105 x 73mm in stretcher bond with cavity as shown on plan with well raked and smoothed joints (85mm gauge). Colour and type to Architect's approval</u>				
	<u>Brick-on-edge header course copings, sills, etc of approved face bricks (FBS) with a PC Amount of R4,000.00 per thousand bricks delivered to site (excluding VAT) pointed with square recessed horizontal and vertical joints on all exposed faces</u>				
40	Extra over brickwork for 160mm high brick-on-end soldier course lintel pointed on face and 110mm wide soffit	m	92		
41	Extra over brickwork for brick-on-edge header course lintel pointed on face and 115mm soffit	m	19		
42	Extra over brickwork for brick on edge coping	m	19		
43	Extra over brickwork for coping on top of 230mm brick wall	m	23		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 3				
	Masonry				

44	Extra over brickwork for coping on top of 270mm brick wall	m	60		
45	Extra over brickwork for coping on top of 330mm brick wall	m	31		
<u>POINTING TO FACE BRICK WALLS</u>					
<u>Fair face to brickwork in horizontal stretcher bond pointed with flush fill joints with Cemcrete mortar, prepared and finished with "Chryso Drikote Sealer" or equal and approved all to manufacturer's specifications</u>					
46	Face brick walls	m2	4,696		
<u>BUILDERS WORK IN CONNECTION WITH ELECTRICAL INSTALLATION, ETC.</u>					
47	Cut chase vertically or horizontally in concrete not exceeding 75mm wide for single conduit and make good	m	1,254		
48	Cut chase vertically or horizontally in brickwork not exceeding 100mm wide for two conduits and make good	m	769		
49	110mm Deep recess for and building in of distribution board not exceeding size 600 x 900mm and make good	No	72		
Carried to Collection				R	
Section No. 2 Bill No. 3 Masonry					

Provisional Bills of Quantities
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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u> <u>BILL NO. 4</u> <u>WATERPROOFING</u> <u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Waterproofing</u> Waterproofing of roofs, basements, etc shall be laid under a fifteen year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs <u>DAMP-PROOFING OF WALLS AND FLOORS</u> <u>One layer of 375 micron black embossed polyethylene damp-proof course</u>			
1	In walls, cavity walls, under cills, etc. <u>WATERPROOFING TO FLAT ROOFS</u> The Contractor shall allow in his rates for testing the waterproofing for water tightness by ponding the waterproofed surfaces for a period of at least 48 hours before application of a protective layer.	m2	2,089	
	Carried to Collection		R	
	Section No. 2 Bill No. 4 Waterproofing			

	<u>Apply six coats Sikapastic-560 GCC cold-applied, one-component waterborne liquid applied waterproofing membrane, highly elastic and UV resistant or equal and approved with 75mm side laps and 100mm end laps fully bonded, inclusive of additional membrane dressing around fullbores, pipes, etc including preparation, primer, base coat with embedded Sika Reemat Premiun or equal and approved, to receive sealer (elsewhere), in strict accordance to manufacturer's specification and guaranteed to remain watertight for a period of fifteen years</u>				
2	On flat roofs	m2	3,014		
3	On tops and sides of inverted beams	m2	416		
4	Collar around pipe not exceeding 200mm internal diameter	No	28		
	<u>SEALING COAT TO PARAPETS, BEAMS, ETC</u>				
	<u>One coat SikaTop Seal-107ZA two part polymer modified cementitious waterproof slurry protective coating or equal and approved comprising of a liquid polymer and cement-based mix incorporating special admixture all in strict accordance to manufacturer's specification on</u>				
5	On plastered tops and sides of beams, parapets, etc. not exceeding 300mm wide	m	892		
6	On plastered tops and sides of beams, parapets, etc. exceeding 300mm wide	m2	126		
	<u>JOINT SEALANTS, ETC</u>				
	<u>Grey polysulphide sealant, including backing cord, bond breaker, primer, etc</u>				
7	Clean out 3mm thick saw cut joint, apply approved primer, insert backing cord and fill with type 2 gungrade polysulphide base joint sealing compound	m	5,086		
	Carried to Collection			R	
	Section No. 2 Bill No. 4 Waterproofing				

8	<u>"ABE Dow Corning 888", or equal approved, silicone sealing compound including raking out joint filler as necessary and backing cord, bond breaker, primer, etc.</u> Rake out 12mm thick expansion joint filler to a depth of 10mm, apply approved primer, insert packing strip and fill with type 2 gungrade polysulphide base joint sealing compound m 2,821 Carried to Collection Section No. 2 Bill No. 4 Waterproofing				
			R		

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u> <u>BILL NO. 5</u> <u>ROOF COVERING</u> <u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>MATERIAL AND FINISH FOR KLIP-TITE ROOF SHEETING AND FLASHINGS</u> Galvanised steel Chromadek Uitim Z275 complying with ISQ 550 with Chromadek colour coated finish to two sides (Non standard colours to be approved by Architects). Finish with Chromadek to both sides on covered walkways or when exposed to bottom. <u>FIXING KLIP-TITE</u> The Klip-Tite profile Chormadek Ultim Z275 sheets shall be fixed to every purlin by means of patented KL700 clips with spurs to securely hold the sheets in position and lock-in sidelap and both centre ribs. Galvanised steel KL700 clips shall be fixed to steel intermediate purlins at maximum 2500mm centres and eaves and ridge purlins at maximum 2100mm centres with 10No. 16x16mm long self drilling wafer head PH2 screws, No.3 drill point fasteners or fixed to timber intermediate purlins at maximum 2500mm centres and eaves and ridge purlins at maximum 2100mm centres with 10No. 11x45mm long self drilling wafer head PH2 screws, type 17 drill point fasteners all in accordance with manufacturer's specifications.			
	Carried to Collection		R	
	Section No. 2 Bill No. 5 Roof Covering			

<u>GUARANTEES</u>					
The Contractor is to submit a certificate signed by the merchant, stating that the galvanised roof covering supplied complies with the required thickness specified.					
A written and approved ten year guarantee of site workmanship and water-tightness shall be issued after final inspection and approval of the roofs by the manufacturer of the sheeting.					
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>					
<u>0.58mm Thick Klip-Tite galvanised steel roof sheeting profile Chromadek Ultim Z275 spelter complying with ISQ550 or equal and approved and accessories, 700mm cover and fixed to all steel or timber purlins with KL700 plus clips and class 3 fasteners, al fixed in strict accordance with manufacturer's instructions</u>					
1	Sheeting laid to roof not exceeding 10 degrees in single lengths (measured nett)	m2	9,938		
2	Extra over for raking cutting	m	259		
3	Global Roofing Solution KT-PV Clamp™ system or equal and approved clamp fixed to Klip-Tite™ profile roof sheeting using fixing bolts all in accordance with manufacturers specifications	No	669		
<u>0.8mm Thick Chromadek Ultim Z275 spelter complying with ISQ550 galvanised steel or equal and approved flashings, etc. complete with metal and poly closers fixed in strict accordance to manufacturer's in specifications</u>					
4	325mm Girth fascia flashing bend to shape to suit roof covering	m	501		
5	603mm Girth apex flashing bend to shape to suit roof covering	m	508		
6	699mm Girth fascia flashing bend to shape to suit roof covering	m	98		
Carried to Collection				R	
Section No. 2 Bill No. 5 Roof Covering					

7	699mm Girth fascia flashing bend to shape to suit roof covering circular on plan	m	17		
8	603mm Girth barge flashing to suit roof profile including metal closer and poly closer	m	517		
9	733mm Girth barge flashing to suit roof profile including metal closer and poly closer	m	62		
10	972mm Girth apex flashing bend to shape to suit roof covering including metal closer and poly closer	m	64		
11	972mm Girth apex flashing bend to shape to suit roof covering circular on plan including metal closer and poly closer	m	32		
<u>ROOF INSULATION</u>					
<u>25mm Thick Insover Kulite (Rval-0.69) flame retardant rigid laminated expanded polystyrene roof insulation or equal and approved size 1200mm x length to suit purlin spacing, comprising expanded polystyrene (EPS) core material with density of 16kg/m3, faced with vinyl, fixed over purlins with support to all exposed edges by means screwed or pop riveted to roof members, all installed in strict accordance to manufacturer's specifications</u>					
12	Roof insulation fixed over steel purlins with support to all exposed edges by means screwed or pop riveted to roof members	m2	9,938		
<u>Sisalation FR430 (Rval-1.3) roof insulation or equal and approved double sided reflective foil laminate with purlins spaced at greater than 1500mm centres with top and bottom edges folded around flat bar and fixed to purlins all installed in strict accordance to manufacturer's specifications</u>					
13	Sisalation laid taut over steel purlins (at approximately 1500mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m2	9,938		
<u>FALL PROTECTION</u>					
Carried to Collection				R	
Section No. 2 Bill No. 5 Roof Covering					

	<u>SecuRope lifeline by Gravity Access (Pty) Ltd or equal and approved consisting of 8mm stainless steel wire rope complete with gliders, energy absorbers, line tensioners, turnbuckle, and curve guide fixed to supporting structure by anchors placed on intervals of 2m to 12m along the cable installed strictly to manufacturers specification and details to</u>				
14	Concrete roof length 9,77m long	No	1		
15	Concrete roof length 14,45m long	No	1		
16	Concrete roof length 14,46m long	No	1		
17	Concrete roof length 16,96m long	No	1		
18	Concrete roof length 17,46m long	No	1		
19	Concrete roof length 20,71m long	No	1		
20	Concrete roof length 29,16m long	No	1		
21	Concrete roof length 29,68m long	No	1		
22	Concrete roof length 34,99m long	No	1		
23	Concrete roof length 40,49m long	No	1		
24	Concrete roof length 48,41m long	No	1		
25	Concrete roof length 62,14m long	No	2		
26	Klip-Tite galvanised roof sheeting roof length 42,06m long	No	1		
27	Klip-Tite galvanised roof sheeting roof length 52,57m long	No	1		
Carried to Collection					
Section No. 2 Bill No. 5 Roof Covering					

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Section No. 2 Bill No. 5 Roof Covering <u>COLLECTION</u> Total Brought Forward from Page No.				
Carried Forward to Summary of Section No. 2 Section No. 2 Bill No. 5 Roof Covering			R	

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 6</u>			
	<u>CARPENTRY</u>			
	<u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>			
	<u>DOORS, ETC</u>			
	<u>Doors by Swartland (022 433 8000) or equal and approved</u>			
	<u>Solid core flush doors</u>			
	<u>40mm Thick solid heavy duty door concealed edge strips with solid core and finished with hardwood laminate on both sides and hung on steel frames (frames elsewhere)</u>			
1	Single leaf door overall size 813 x 1738mm high Dr_EP	No	1	
2	Single leaf door overall size 813 x 2032mm Dr_BZ	No	1	
3	Single leaf door overall size 813 x 2032mm high Dr_V	No	90	
4	Single leaf door overall size 900 x 2032mm high Dr_B	No	4	
5	Single leaf door size overall 965 x 2032mm high Dr_A	No	12	
6	Single leaf door size overall 965 x 2032mm high Dr_Z	No	8	
7	Single leaf door size overall 965 x 2125mm high HSW007 & HSW008	No	24	
8	Single leaf door size overall 1103 x 2380mm high HSW003	No	2	
	Carried to Collection		R	
	Section No. 2 Bill No. 6 Carpentry			

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9	Single leaf door size overall 1120 x 2380mm high HSW001 & HSW002	No	27		
10	Single leaf door size overall 1120 x 2380mm high HSW004	No	1		
11	Single leaf door size overall 1120 x 2510mm high HSW005 & HSW006	No	6		
12	Double leaf door with rounded meeting stiles overall size 986 x 1738mm high Dr_D	No	34		
13	Double leaf door with rounded meeting stiles overall size 1286 x 2065mm high Dr_CJ	No	1		
14	Double leaf door with rounded meeting stiles overall size 1510 x 2032mm high Dr_DB	No	16		
15	Double leaf door with rounded meeting stiles overall size 1486 x 2032mm high Dr_EJ	No	1		
16	Double leaf door with unequal leafs, each leaf size overall 813 x 2032mm high and 482 x 2032mm high, with rounded meeting stiles Dr_CA	No	14		
17	Double leaf door with unequal leafs, each leaf size overall 900 x 2032mm high and 450 x 2032mm high, with rounded meeting stiles Dr_AA	No	2		
<u>Extra over solid heavy duty doors for</u>					
18	3 x 3mm Slit to edge of top rail and stile for wiring (wiring elsewhere) in solid laminated flush door (doors elsewhere)	m	30		
19	Viewing panel size 250 x 630mm high with purpose made aluminium sub-frame for view panel (Sheerline NVW 01/02) or equal and approved, glazed with and including 6,38mm thick clear intruder proof safety glass, standard glazing beads, PVC gaskets and sealants in solid flush door, all to AAMSA standards (doors elsewhere)	No	67		
Carried to Collection				R	
Section No. 2 Bill No. 6 Carpentry					

20	Opening size 400 x 400mm high for ventilation grilles (grilles elsewhere) in solid laminated flush door (doors elsewhere)	No	66		
	<u>Fire doors by Melican Mis Systems (031 563 7307)</u>				
	<u>Fire doors</u>				
21	Pelican MIS Systems pyropanel 48mm Single leaf fire door size 1000 x 2032mm high or equal and approved in strict accordance with SABS 1253 carrying the relevant SABS mark for fire rating with 3,6mm treated commercial ply on both sides Dr_X	No	10		
	<u>OPERABLE PARTITIONING</u>				
	<u>Sound Operable Partition Panels by HUF COR (031 573 7380)</u>				
22	Supply and install Ifuba Hufcor 5000 Series Operable Partition, with an (STC 44/48) to suit opening size 16366mm wide x 3060mm high with panels faced with high pressure laminates, including the necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in aluminium finished in Interpon D powder coating (Super durability - Qualicoat® Class2) surround frame. Suspended from track and carriers (Type 38) including all necessary suspension components and acoustic baffle to specified STC 44 class of panels fitted to and above the track in the ceiling void to a height of average 3500mm high including factory fitted lock set type HUF38-001	No	2		
	Carried to Collection			R	
	Section No. 2 Bill No. 6 Carpentry				

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23	Supply and install Ifuba Hufcor 5000 Series Operable Partition, with an (STC 44/48) to suit opening size 14683mm wide x 3060mm high with panels faced with high pressure laminates, including the necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in aluminium finished in Interpon D powder coating (Super durability - Qualicoat® Class2) surround frame. Suspended from track and carriers (Type 38) including all necessary suspension components and acoustic baffle to specified STC 44 class of panels fitted to and above the track in the ceiling void to a height of average 3500mm high including factory fitted lock set type HUF38-002	No	1		
24	Supply and install Ifuba Hufcor 5000 Series Operable Partition, with an (STC 44/48) to suit opening size 8089mm wide x 2720mm high with panels faced with high pressure laminates, including the necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in aluminium finished in Interpon D powder coating (Super durability - Qualicoat® Class2) surround frame. Suspended from track and carriers (Type 38) including all necessary suspension components and acoustic baffle to specified STC 44 class of panels fitted to and above the track in the ceiling void to a height of average 3500mm high including factory fitted lock set type HUF38-003	No	1		
25	Extra over to 5000 for single Pass Door size 818mm wide x 2030mm high	No	3		
Carried to Collection					R
Section No. 2 Bill No. 6 Carpentry					

26	Supply and install Ifuba Hufcor 5000 Series Operable Partition, with an (STC 40/44/48) to suit opening size 4278mm wide x 2720mm high with panels faced with medium density board (MDF), including the necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in aluminium finished in Interpon D powder coating (Super durability - Qualicoat® Class2) surround frame. Suspended from track and carriers (Type 38) including all necessary suspension components and acoustic baffle to specified STC 48 class of panels fitted to and above the track in the ceiling void to a height of average 3500mm high including factory fitted lock set type HUF40-004	No	1		
27	Supply and install Ifuba Hufcor 5000 Series Operable Partition, with an (STC 40/44/48) to suit opening size 6539mm wide x 2720mm high with panels faced with medium density board (MDF), including the necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in aluminium finished in Interpon D powder coating (Super durability - Qualicoat® Class2) surround frame. Suspended from track and carriers (Type 38) including all necessary suspension components and acoustic baffle to specified STC 48 class of panels fitted to and above the track in the ceiling void to a height of average 3500mm high including factory fitted lock set type HUF40-005	No	1		
28	Supply and install Ifuba Hufcor 5000 Series Operable Partition, with an (STC 40/44/48) to suit opening size 3632mm wide x 3060mm high with panels faced with medium density board (MDF), including the necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in aluminium finished in Interpon D powder coating (Super durability - Qualicoat® Class2) surround frame. Suspended from track and carriers (Type 38) including all necessary suspension components and acoustic baffle to specified STC 48 class of panels fitted to and above the track in the ceiling void to a height of average 3500mm high including factory fitted lock set type HUF40-002	No	2		
Carried to Collection				R	
Section No. 2 Bill No. 6 Carpentry					

29	Supply and install Ifuba Hufcor 5000 Series Operable Partition, with an (STC 40/44/48) to suit opening size 5411mm wide x 3060mm high with panels faced with medium density board (MDF), including the necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in aluminium finished in Interpon D powder coating (Super durability - Qualicoat® Class2) surround frame. Suspended from track and carriers (Type 38) including all necessary suspension components and acoustic baffle to specified STC 48 class of panels fitted to and above the track in the ceiling void to a height of average 3500mm high including factory fitted lock set type HUF40-001	No	1		
30	Supply and install Ifuba Hufcor 5000 Series Operable Partition, with an (STC 40/44/48) to suit opening size 5421mm wide x 3060mm high with panels faced with medium density board (MDF), including the necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in aluminium finished in Interpon D powder coating (Super durability - Qualicoat® Class2) surround frame. Suspended from track and carriers (Type 38) including all necessary suspension components and acoustic baffle to specified STC 48 class of panels fitted to and above the track in the ceiling void to a height of average 3500mm high including factory fitted lock set type HUF40-003	No	1		
31	Supply and install Ifuba Hufcor 5000 Series Operable Partition, with an (STC 40/44/48) to suit opening size 4596mm wide x 3400mm high with panels faced with medium density board (MDF), including the necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in aluminium finished in Interpon D powder coating (Super durability - Qualicoat® Class2) surround frame. Suspended from track and carriers (Type 38) including all necessary suspension components and acoustic baffle to specified STC 48 class of panels fitted to and above the track in the ceiling void to a height of average 3500mm high including factory fitted lock set type HUF40-006	No	2		
Carried to Collection				R	
Section No. 2 Bill No. 6 Carpentry					

32	Supply and install Ifuba Hufcor 5000 Series Operable Partition, with an (STC 40/44/48) to suit opening size 4676mm wide x 3400mm high with panels faced with medium density board (MDF), including the necessary top and bottom retractable seals, interlocking vertical seals and end lever closure in aluminium finished in Interpon D powder coating (Super durability - Qualicoat® Class2) surround frame. Suspended from track and carriers (Type 38) including all necessary suspension components and acoustic baffle to specified STC 48 class of panels fitted to and above the track in the ceiling void to a height of average 3500mm high including factory fitted lock set type HUF40-007 No Carried to Collection Section No. 2 Bill No. 6 Carpentry	1			
				R	

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Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 7</u>			
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
<u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>			
<u>SUSPENDED CEILINGS</u>			
<u>Note:</u>			
Electrical light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance must be made accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)			
<u>Pelican Systems Jumbo Fibre Cement ceiling system or equal and approved with 6mm thick fibre cement board fixed at right angles to 35mm Jumbo galvanised steel main and cross tees at 400mmm centres with 25mm drywall screws spaced at 150mm centres. All joints to be covered with 6mm Jumbo Jointing Strips and prepared for decorations all in accordance with manufacturer's instructions</u>			
1	Ceilings suspended not exceeding 1m below concrete slabs	m2	35
2	Ceilings suspended not exceeding 1m below steel trusses	m2	149
3	Ceilings in eaves closure fixed to steel structure	m2	2,055
4	Circular cutting	m	40
Carried to Collection			R
Section No. 2 Bill No. 7 Ceilings, Partitions and Access Flooring			

	<u>Hardwood Cornice</u>				
5	46 x 24mm Hardwood cornice, complete with two 10 x 10mm shadow-line at side wall and top with splayed corner at internal face fixed to walls, stop, fill, sand down and prepare wood surface for decorations	m	2,689		
6	46 x 24mm Hardwood cornice, complete with two 10 x 10mm shadow-line at side wall and top with splayed corner at internal face circular on plan fixed to walls, stop, fill, sand down and prepare wood surface for decorations	m	58		
	<u>Aluminium Cornice</u>				
7	20 x 20mm Angle section cornice to eaves closer ceilings	m	2,325		
8	20 x 20mm Angle section cornice to eaves closer ceilings circular on plan	m	79		
	<u>Flush plastered ceilings formed of 9mm JUMBO Plasterboard ceiling boards or equal and approved fixed to JUMBO Steel Branderling installed at maximum 400mm centres, fix plasterboard using drywall screws at maximum 150mm centres, all joints to be staggered. Apply Jumbo Fibatape to all joints, cover with 2 layers of Jumbo jointing plaster and skim ceilings with Jumbo skimming plaster for decoration all in accordance with manufacturer's instructions</u>				
9	Ceilings suspended not exceeding 1m below concrete slabs	m2	526		
10	Ceilings suspended not exceeding 1m below steel trusses	m2	1,181		
11	Ceilings suspended exceeding 1m and not exceeding 2m below steel trusses	m2	414		
12	Raking ceilings suspended not exceeding 1m below steel trusses	m2	43		
	Carried to Collection			R	
	Section No. 2 Bill No. 7 Ceilings, Partitions and Access Flooring				

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13	Vertical bulkhead not exceeding 1m below concrete slab including all additional supports that may be required	m2	154		
14	Vertical bulkhead not exceeding 1m below steel trusses including all additional supports that may be required	m2	696		
15	Vertical bulkhead not exceeding 1m below steel trusses circular on plan including all additional supports that may be required	m2	23		
16	Circular cutting	m	95		
17	Extra over for Pelican System or equal and approved ceiling access panel comprising 600 x 600mm white epoxy coated aluminium T-frame with 580 x 580mm white epoxy coated steel bottom hinged pan fitted flush to flush plastered steel T-suspension ceiling, pop riveted through stalk of T-frame into 25 x 25mm steel galvanised angle steel with and including cam locks	No	27		
<u>Powdercoated shadowline cornices</u>					
18	45 x 45mm Pelican PS4 Shadowline pre-painted white Wall Trim cornice or equal and approved secured to plastered walls at 450mm centres with anchors including mitres, etc. sealed with silicone sealant	m	3,461		
19	45 x 45mm Pelican PS4 Shadowline pre-painted white Wall Trim cornice or equal and approved circular on plan secured to plastered walls at 450mm centres with anchors including mitres, etc. sealed with silicone sealant	m	95		
<u>Extra over plasteredboard ceilings for cut outs and providing additional supports</u>					
20	Extra over ceiling for opening for 500 x 500mm air-conditioning diffuser	No	682		
21	600 x 1200mm opening	No	1,260		
Carried to Collection				R	
Section No. 2 Bill No. 7 Ceilings, Partitions and Access Flooring					

22	600 x 600mm opening	No	280		
	<u>Flush plastered ceilings formed of 12mm JUMBO Moisture Resistant tapered edge plasterboard ceiling or equal and approved fixed to JUMBO galvanised steel branderling installed at maximum 400mm centres, fix plasterboard using drywall screws at maximum 150mm centres. Apply Jumbo Fibatope to all joints, cover with 2 layers of Jumbo jointing plaster and skim ceilings with Jumbo skimming plaster for decoration all in accordance with manufacturer's instructions</u>				
23	Ceilings suspended not exceeding 1m below steel trusses	m2	116		
	<u>Pelican Econotile Gypsum ceiling tiles size 1200x600x12mm with insulation, White vinyl face finish and aluminium foil backing or equal and approved laid onto Pelican Econogrid pre-painted white exposed tee grids or equal and approved including fire safety punch outs. Main tees suspended by means of 19x0.5mm GMS straps or 2.5mm wire hangers at 1200mm centres all in accordance with the manufacturer's instructions</u>				
24	Ceilings suspended not exceeding 1m below concrete slabs	m2	130		
	<u>Extra over gypsum ceilings for cut outs including additional supports</u>				
25	Extra over ceiling for opening for 600 x 600mm air-conditioning diffuser	No	150		
	<u>Powdercoated shadowline cornices</u>				
26	25mm Econo Shadowline Trim CGDZ1S36 cornice or equal and approved secured to plastered wall and ceiling boarding including mitres, etc. sealed with silicone sealant	m	161		
	Carried to Collection				
	Section No. 2 Bill No. 7 Ceilings, Partitions and Access Flooring				
				R	

	<u>Pelican Econotile Gypsum ceiling tiles size 1200x600x12mm without insulation, White vinyl face finish and aluminium foil backing or equal and approved laid onto Pelican Econogrid pre-painted white exposed tee grids or equal and approved including fire safety punch outs. Main tees suspended by means of 19x0.5mm GMS straps or 2.5mm wire hangers at 1200mm centres all in accordance with the manufacturer's instructions</u>				
27	Ceilings suspended not exceeding 1m below concrete slabs	m2	180		
	<u>Powdercoated shadowline cornices</u>				
28	25mm Econo Shadowline Trim CGDZ1S36 cornice or equal and approved secured to plastered wall and ceiling boarding including mitres, etc. sealed with silicone sealant	m	240		
	<u>Pelican AMF Thernofon ceiling tiles size 1200 x 600 x 15mm with square edge or equal and approved laid onto Pelican Econogrid pre-painted white exposed tee grids or equal and approved including fire safety punch outs. Main tees suspended by means of 19 x 0.5mm GMS straps or 2.5mm wire hangers at 1200mm centres all in accordance with the manufacturer's instructions</u>				
29	Ceilings suspended not exceeding 1m below concrete slabs	m2	543		
30	Ceilings suspended not exceeding 1m below steel trusses	m2	1,610		
	<u>Powdercoated shadowline cornices</u>				
31	25mm Econo Shadowline Trim CGDZ1S36 cornice or equal and approved secured to plastered wall and ceiling boarding including mitres, etc. sealed with silicone sealant	m	1,170		
Carried to Collection				R	
Section No. 2					
Bill No. 7					
Ceilings, Partitions and Access Flooring					

	<u>Pelican Econotherm insulated calcium silicate ceiling tiles size 1200x600x31mm with White vinyl face finish and aluminium foil backing with 55/135mm cavity bonded to back of tile or equal and approved laid onto Pelican Econogrid pre-painted white exposed tee grids or equal and approved including fire safety punch outs. Main tees suspended by means of 19x0.5mm GMS straps or 2.5mm wire hangers at 1200mm centres all in accordance with the manufacturer's instructions</u>				
32	Ceilings suspended not exceeding 1m below concrete slabs	m2	1,548		
33	Ceilings suspended not exceeding 1m below steel trusses	m2	807		
34	Circular cutting	m	5		
	<u>Powdercoated shadowline cornices</u>				
35	25mm Econo Shadowline Trim CGDZ1S36 cornice or equal and approved secured to plastered wall and ceiling boarding including mitres, etc. sealed with silicone sealant	m	2,858		
36	25mm Econo Shadowline Trim CGDZ1S36 cornice or equal and approved circular on plan secured to plastered wall and ceiling boarding including mitres, etc.	m	5		
	<u>Extra over Pelican Econotherm ceilings for cut outs including additional supports</u>				
37	Extra over ceiling for opening for 600 x 600mm air-conditioning diffuser	No	150		
	<u>METAL CEILINGS</u>				
	Carried to Collection			R	
	Section No. 2 Bill No. 7 Ceilings, Partitions and Access Flooring				

	<u>1mm Thick galvanised troughed interlocking Bond-lok sheet metal ceiling system with chromadek finish on one side by Global Roofing Solutions (011 898 2900) or equal and approved including all necessary shear studs, end closers, screws, flashings, etc. installed in strict accordance with the manufacturer's instructions:</u>				
38	Fixed to underside of steel trusses	m2	579		
39	Extra over for leaving or forming opening not exceeding 300mm diameter	No	45		
	<u>ACOUSTIC CEILING PANELS</u>				
	<u>Solid timber slatted acoustic ceiling panels by Live Acoustics (031 767 0006) or equal and approved resistant to moisture and warping, in 100mm thickness with maximum dimension of 2400mm x 1200mm with and including light weight structure suspended below steel structure installed complete to manufactures specifications</u>				
40	Timber slatted acoustic ceiling panels	m2	316		
41	Circular cutting	m	86		
	<u>INSULATION</u>				
42	50mm Thick Isover Aerolight non-combustible light weight fibreglass glasswool thermal ceiling insulation (12kg/m3 nominal density) or equal and approved closely fitted and laid on top of ceiling between metal suspension system	m2	3,410		
43	40mm Thick Lambdaboard high density closed cell polyisocyanurate insulation or equal and approved with high density of 34 kg/m³, formed of 1220 x 40mm thick sheets colour white with Kraft facing fixed to underside of slab all in accordance with manufacturer's specifications	m2	1,138		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 7				
	Ceilings, Partitions and Access Flooring				

44	40mm Thick Lambdaboard high density closed cell polyisocyanurate insulation or equal and approved with high density of 34 kg/m³, formed of 1220 x 40mm thick sheets colour white with Kraft facing fixed concurrent with roof covering with roof covering under purlins with H bar joiner screws fixed at 1200mm centres with 5mm gaps between boards butt jointed under purlins all in accordance with manufacturer's specifications	m2	19		
45	Lambdaboard® laminated polyisocyanurate core board or equal and approved with a minimum core density of 34 kg/m³, a minimum thickness of 50mm, with mineral natural facing, fixed to tee suspension system including galvanised main tees, cross tees, hold down clips, wedges, etc., all suspended with galvanized hangers as required at not exceeding 1200mm centres and strutted using 20 x 20mm angles at 3m centres and prepared for decoration all in accordance with manufacturer's specifications	m2	1,431		
46	Cavity Batt bonded Pelican system suspended ceiling tile or equal and approved with thickness of 100mm to achieve a r-value of 2.50 and meet SANS10400-XA-2011 standard installed to manufactures specification	m2	2,013		
<u>TOILET PARTITIONS</u>					
Carried to Collection					
Section No. 2 Bill No. 7 Ceilings, Partitions and Access Flooring				R	

	<u>Cubicle Solutions Cube Exclusive toilet cubicle comprising of 12mm Compact Density Fibre Board (CDFB), (Colour: standard colour rangel), in Cube-Exclusive Overlap (code: CSCDFBCEO) or equal and approved. This is a modular, frameless system with overhead brace and hanging clamp (code: CS13HNGBRKT), floor anchored with adjustable supporting feet (code: CS13FT150) fixed to front mid and end panels, and bracketed to walls and pilasters using stainless steel brackets (code: CS3X10HLCRNBKT). All fixings and ironmongery in 304 and 316 grade stainless steel as specified. Ironmongery to include hat and coat hook (code: CSH&CHK) with buffer stopper, indicator bolt (code: CS12INDBLT) and rise and fall butt auto open hinge (code: CSHNGCDFB). All installed in strict accordance with the manufacturer's instructions</u>				
47	Partition size 210 mm wide x 1830 mm high	No	2		
48	Partition size 1800 mm wide x 1830 mm high	No	43		
49	Partition size 1800 mm wide x 1945 mm high	No	4		
50	Mid size 250 mm wide x 1830mm high	No	37		
51	Mid size 250 mm wide x 1945mm high	No	4		
52	End size 100mm wide x 1830mm high	No	1		
53	End size 125mm wide x 1830mm high	No	31		
54	End size 125mm wide x 1945mm high	No	8		
55	End size 1000mm wide x 1830mm high	No	3		
56	End size 1100mm wide x 1830mm high	No	3		
57	End size 1270mm wide x 1830mm high	No	1		
58	End size 1165mm wide x 1830mm high	No	1		
59	End size 2610mm wide x 1830mm high	No	1		
60	Door size 740mm wide x 1780mm high	No	50		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 7				
	Ceilings, Partitions and Access Flooring				

61	Door size 740mm wide x 1880mm high	No	4	
62	Door size 900mm wide x 1780mm high	No	12	
	<u>Cubicle Solutions (Code.CSUSWE)" urinal screen or equal and approved formed of 12mm thick compact high pressure laminate (CHPL), fixed to wall using aluminium extrusion (code: CS6CMEMF) in strict accordance with the manufacturer's instructions</u>			
63	Urinal screen size 450mm wide x 750mm high	No	15	
	<u>LOCKERS</u> <u>Cubicle Solutions Locker-Bench Combinations with 2 doors, dimensions 1900mm high x 300mm wide x 450mm deep – lockers 1500mm high and bench 400mm high Carcass or equal and approved manufactured using 4mm, 8mm and 12mm Compact High Pressure Laminate in white, doors in 12mm Compact High Pressure Laminate (colour: to be confirmed).</u> <u>Ironmongery to include auto return hinge (code: CSHNGFLCK) and D shaped keep (code: CSCHPL/K) for individuals own padlocks (no locking mechanism included), lock cover plate and handle (code: CSLCKNBNPLT) and lockers also have individual numbers.</u> <u>Lockers to sit on bench frame which is manufactured using powder coated mild steel, with a 400mm bench frame at the front of the lockers.</u> <u>Bench seating to be manufactured using 12mm Compact High Pressure Laminate , (colour: from stock-held colour range</u>			
64	4500m long x 450mm deep x 1900 high locker bench	No	66	
Carried to Collection				
Section No. 2 Bill No. 7 Ceilings, Partitions and Access Flooring				

65	<u>Cubicle Solutions lockers manufactured using 4mm, 8mm and 12mm Compact High Pressure Laminate, (code: CSCHPLL3D with 3 doors), dimensions 1800mm high x 300mm wide x 450mm deep Carcass or equal and approved manufactured using 4mm, 8mm and 12mm CHPL in white, doors in 12mm Compact High Pressure Laminate (colour: to be confirmed).</u> <u>Ironmongery to include auto return hinge (code: CSHNGFLCK) and D-shaped keep (code: CSCHPL/K) for individuals own padlocks (no locking mechanism included), lock cover plate and handle (code: CSLCKNBNPLT). Lockers are numbered using 2mm Rowmark brushed aluminium rectangle discs. Numbering sequence to be confirmed.</u> <u>Plinth 100mm and locker 1800mm, finishing height 1900mm</u> 3 Door locker Tier 300mm x 450mm x 1800mm No 22 R Carried to Collection Section No. 2 Bill No. 7 Ceilings, Partitions and Access Flooring				
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Provisional Bills of Quantities
Nursing College Kimberley Phase 2A
Northern Cape Department of Roads and Public Works

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 8</u>			
	<u>FLOOR COVERINGS, WALL LININGS, ETC</u>			
	<u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>			
	<u>FLOOR COVERINGS</u>			
	<u>DUST ENTRANCE MAT</u>			
	<u>Decramat Mat-Lok reversible double sided heel-proof, closed construction barrier mat or equal and approved, 18 gauge consisting of electrostatic buffered-nylon rubber inserts, inserted and fixed into modular double sided mill finish aluminium scraper sections, fixed in sunken aluminium mat surround formed of mill finished pre-formed matwell frame (Code: AMF31/31) complete with mitred edges and corner connectors, bedded into screed all in accordance with the manufacturer's instructions:</u>			
1	Door mat size 1000mm long x 2000mm wide	No	1	
2	Door mat size 1800mm long x 1800mm wide	No	2	
3	Door mat size 2000mm long x 1000mm wide	No	1	
4	Door mat size 2000mm long x 2800mm wide	No	2	
5	Door mat size 2000mm long x 3000mm wide	No	2	
6	Door mat size 3533mm long x 1500mm wide	No	1	
7	Door mat size 4442mm long x 1500mm wide	No	4	
8	Door mat size 4523mm long x 1500mm wide	No	2	
	Carried to Collection		R	
	Section No. 2			
	Bill No. 8			
	Floor Coverings, Wall Linings, etc			

	<u>2mm Thick flexible Camaro PUR PVC tile/plank and flooring with 0.3mm clear PVC wear layer, 0.07mm print film layer and 1.63mm backing ply featuring high quality cross-linked polyurethane reinforcement or equal and approved laid with the correct Polyflor approved LVT adhesive including rolled in both directions with an articulated 68kg three-sectional roller immediately after installation, installed in strict accordance with the manufacturer's instructions on plaster bedding (bedding elsewhere)</u>				
9	On floors	m2	1,417		
10	On floors in narrow withs	m2	36		
	<u>2mm Thick Polysafe Verona PUR Safety Flooring or equal and approved 2m wide sheeting containing silicone carbide and aluminium oxide granules with stabilising crinette interlayer fixed with an approved acrylic adhesive and joints welded with a fully flexible Polyflor welding rod to provide a continuous finished surface including rolling with a 68kg articulated roller on completion, installed in strict accordance with the manufacturer's instructions on plaster bedding (bedding elsewhere)</u>				
11	On floors	m2	191		
12	On floors in narrow withs	m2	4		
13	Margins and borders not exceeding 200mm wide	m	386		
14	Turn-ups over coves and up against walls not exceeding 200mm girth	m	386		
15	65 x 2mm Polyspan EJC65 or equal and approved expansion joint cover fitted with 20mm wide polysulphide infill, plugged and screwed to floor base in strict accordance with the manufacturer's instructions.	m	6		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 8				
	Floor Coverings, Wall Linings, etc				

	<u>3.7mm Thick Heterogeneous Silentflor PUR sheet flooring 2m wide manufactured in accordance with R10 slip resistance classified DS to EN 13893 or equal and approved fixed with an approved acrylic adhesive and joints welded with a fully flexible Polyflor welding rod to provide a continuous finished surface including rolling with a 68kg articulated roller on completion, installed in strict accordance with the manufacturer's instructions on plaster bedding (bedding elsewhere)</u>				
16	On floors	m2	3,724		
17	On floors in narrow withs	m2	46		
18	Margins and borders not exceeding 200mm wide	m	536		
19	Turn-ups over coves and up against walls not exceeding 200mm girth	m	536		
20	65 x 2mm Polyspan EJC65 or equal and approved expansion joint cover fitted with 20mm wide polysulphide infill, plugged and screwed to floor base in strict accordance with the manufacturer's instructions.	m	64		
	<u>2mm Thick Palettone PUR Group T homogeneous and monolayer non-directional multi flake design vinyl sheeting with UV cured cross linked PUR treatment or equal and approved manufactured in accordance with EN 649/ISO 10581 laid with the correct Polyflor approved acrylic adhesive including rolled in both directions with an articulated 68kg three-sectional roller immediately after installation, installed in strict accordance with the manufacturer's instructions on plaster bedding (bedding elsewhere)</u>				
21	On floors	m2	1,910		
22	On floors in narrow withs	m2	39		
23	Margins and borders not exceeding 200mm wide	m	276		
24	Turn-ups over coves and up against walls not exceeding 200mm girth	m	276		
	Carried to Collection			R	
	Section No. 2 Bill No. 8 Floor Coverings, Wall Linings, etc				

	<u>2mm Thick Expona Flow PUR homogeneous fully flexiable vinyl sheeting with UV cured cross linked PUR treatment or equal and approved installed with and including on top of Standard XL 1.50mm laid with the correct Polyflor approved acrylic adhesive including rolled in both directions with an articulated 68kg three-sectional roller immediately after installation, installed in strict accordance with the manufacturer's instructions on plaster bedding (bedding elsewhere)</u>				
25	Margins and borders not exceeding 200mm wide	m	621		
26	Turn-ups over coves and up against walls not exceeding 200mm girth	m	621		
	<u>SKIRTINGS, NOSINGS, ETC</u>				
	<u>Vinyl accessories fixed to brick walls with approved acrylic adhesive in strict accordance with manufacturer's instructions</u>				
27	20 x 20mm Polyflor Polycove PC20 cove former fillet or equal and approved	m	1,396		
28	29,5mm CB30 Clip base and 30mm CTC 30 clip top capping by Polyflor or equal and approved	m	1,265		
29	35mm Polycap CS48 lipped capping strip or equal and approved or equal and approved	m	149		
30	Migua Migutec FG35/2000 expansion joint profile or equal and approved fixed in strict accordance with the manufacturers instructions	m	112		
31	Kirk Marketing SQE080 stainless steel square edge trim capping strip or equal and approved fixed in strict accordance with the manufacturer's instructions.	m	40		
	<u>Polymer skirting Wallstyl® by NMCSA (011 466 0003) or equal and approved</u>				
32	15mm x 100mm High skirting type FD1 fixed to plastered wall with approved adhesive	m	2,429		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 8				
	Floor Coverings, Wall Linings, etc				

<u>BUMPER RAILS</u>					
<u>Standard Gradus bacterial / fungal growth resistant PVC-u or equal and approved bumper rails with bolts, washers and screws to be corrosion proof</u>					
33	Standard Gradus WDA100 Wall guard with aluminium retainer (Code: WGA100A) and PVC-u cover (Code: WGS100V/XXX) complete with patented universal end caps (Code: WGA1001/XXX) fixed with and including six 60mm long coach screws with heavy duty wall plugs, installed strictly to manufacturers specifications (BUM021)	m	15		
34	Standard Gradus WGS125F wall guard complete with 50mm aluminium fixing clips (Code: WGS125FC), internal PVC-u bumper rail (Code: WGS125B) and PVC-u cover (Code: WGS125V/XXX) fixed with and including six 60mm long coach screws with heavy duty wall plugs, installed strictly to manufacturers specifications (BUM019)	m	18		
35	Standard Gradus end cap (Code: WGS1251/XXXX) including reveal and fixings	No	26		
36	Standard Gradus D200 Dual rail consisting of handrail and wall guard with aluminium retainer, PVC-u cover, universal returns (Code: D2004P) and mounting brackets (Code:D2003) fixed with and including six 60mm long coach screws with heavy duty wall plugs, installed strictly to manufacturers specifications (BUM020)	m	26		
37	Standard Gradus Outside corner (Code: D2002EP)	No	28		
38	Standard Gradus Inside corner (Code: D2002IP)	No	5		
<u>CORNER PROTECTORS, ETC.</u>					
Carried to Collection				R	
Section No. 2 Bill No. 8 Floor Coverings, Wall Linings, etc					

	<u>Standard Gradus bacterial / fungal growth resistant PVC-u or equal and approved</u>				
39	75 x 75mm x 700mm high standard Gradus high impact corner guard 90 degree (Code: CGH7590) installed strictly to manufacturers specifications (BUM034)	No	14		
40	75 x 75mm x 900mm high standard Gradus high impact corner guard 90 degree (Code: CGH7590) installed strictly to manufacturers specifications (BUM033)	No	36		
	<u>DOOR PROTECTION</u>				
	Door protection by Polyflor (011 609 3500) or equal and approved.				
	All kick plates, push plates and edge protectors to be glued to unpainted door surface with an approved factory applied adhesive.				
	Both front, back channel/angle edge protectors to be recessed for the total material thickness.				
	All edge protectors with "U" shaped end to be either flush or rebated.				
	All kick plates, push plates and edge protectors produced to individual size requirements and bevelled on edges to provide a smooth and safe finish.				
	<u>1,5mm PVC-u Gradus Sanparrel sheets or equal and approved door protection</u>				
	<u>Channel Edge Protector</u>				
41	40 x 20 x 1,5mm Thick channel section corner protector 300mm long fixed with patent adhesive to edge of timber door (door elsewhere)	No	54		
42	40 x 20 x 1,5mm Thick channel section corner protector 300mm long with 100mm cut-out for hinge fixed with patent adhesive to edge of timber door (door elsewhere)	No	54		
	Carried to Collection			R	
	Section No. 2 Bill No. 8 Floor Coverings, Wall Linings, etc				

Provisional Bills of Quantities
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43	40 x 20 x 1,5mm Thick channel section corner protector 1000mm long fixed with patent adhesive to edge of timber door (door elsewhere)	No	133		
44	40 x 20 x 1,5mm Thick channel section corner protector 1000mm long with 100mm cut-out for hinge fixed with patent adhesive to edge of timber door (door elsewhere)	No	133		
<u>Push plates, kicking plates, etc.:</u>					
45	450mm wide x 300mm high kick plate fixed with patent adhesive to timber door (door elsewhere)	No	6		
46	482mm wide x 300mm high kick plate fixed with patent adhesive to timber door (door elsewhere)	No	28		
47	743mm wide x 300mm high kick plate fixed with patent adhesive to timber door (door elsewhere)	No	4		
48	755mm wide x 300mm high kick plate fixed with patent adhesive to timber door (door elsewhere)	No	64		
49	813mm wide x 300mm high kick plate fixed with patent adhesive to timber door (door elsewhere)	No	114		
50	900mm wide x 300mm high kick plate fixed with patent adhesive to timber door (door elsewhere)	No	6		
51	965mm wide x 300mm high kick plate fixed with patent adhesive to timber door (door elsewhere)	No	76		
52	813mm wide x 300mm high bumper plate fixed with patent adhesive to timber door (door elsewhere)	No	84		
53	965mm wide x 300mm high bumper plate fixed with patent adhesive to timber door (door elsewhere)	No	94		
54	450mm wide x 1000mm high bumper plate fixed with patent adhesive to timber door (door elsewhere)	No	6		
55	643mm wide x 1000mm high bumper plate fixed with patent adhesive to timber door (door elsewhere)	No	4		
Carried to Collection				R	
Section No. 2 Bill No. 8 Floor Coverings, Wall Linings, etc					

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56	813mm wide x 1000mm high bumper plate fixed with patent adhesive to timber door (door elsewhere)	No	98		
57	900mm wide x 1000mm high bumper plate fixed with patent adhesive to timber door (door elsewhere)	No	8		
58	965mm wide x 1000mm high bumper plate fixed with patent adhesive to timber door (door elsewhere)	No	30		
59	1000mm wide x 1000mm high bumper plate fixed with patent adhesive to timber door (door elsewhere)	No	18		
<u>RAISED ACCESS FLOOR</u>					
<u>Lafarge Gypsum (011389 4500) or equal and approved</u>					
60	Snap-on Stringer access floor system with 600 x 600mm Type 2 steel clad cementitious core panels with factory bonded conductive and anti-static vinyl finish, supported by and including all necessary under structure components as per manufacturers specification for a finished floor height of 470mm above concrete floor with 1mm galvanised mild steel fire barrier around holes for sealing	m2	48		
61	Extra over for forming a ramp size 5,74mm long x 2,82mm wide	No	1		
<u>Extra over raised access floor</u>					
62	Straight cutting and fitting around perimeter walling etc., including all necessary additional supporting members, pedestals, etc.	m	28		
63	Raking cutting and fitting around perimeter walling etc., including all necessary additional supporting members, pedestals, etc.	m	28		
64	Decorative border internal trim	m	28		
Carried to Collection				R	
Section No. 2					
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Floor Coverings, Wall Linings, etc					

Provisional Bills of Quantities
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65	120mm Diameter grommet	No	4			
66	170mm Diameter grommet	No	4			
67	Electrical floor service outlet	No	4			
68	600 x 600mm Perforated panels	No	2			
69	Air diffuser	No	2			
70	Lifting tool for panels	No	1			
<u>WALL LININGS</u>						
<u>Wall Panneling</u>						
71	12,5mm Taper edge Rhinoboard panelling full length board bands and continuous bands at skirting level and around the perimeter of doors and windows fixed to plastered walls fixed with Rhinolite gypsum plaster in vertical dabs of 50-75mm wide x 250mm long at 600mm centres, all joints to be covered with RhinoTape and two layers of RhinoGlide, lightly sanded and prepared to be decorated	m2	175			
72	12,5mm Thick Gyproc Gyptone BIG Quattro 41 flush jointed acoustical panelling or equal and approved size 2400 x 1200mm fixed to plastered walls fixed with Rhinolite gypsum plaster in vertical dabs of 50-75mm wide x 250mm long at 600mm centres, all joints to be covered with RhinoTape and two layers of RhinoGlide, lightly sanded and prepared to be decorated in strict accordance with the manufacturer's instructions	m2	600			
73	10 x 10mm PVC drywall trim fixed in strict accordance with the manufacturer's instructions	m	450			
<u>PVC-U Wall Cladding</u>						
Carried to Collection					R	
Section No. 2 Bill No. 8 Floor Coverings, Wall Linings, etc						

	<u>Supertec Magnesium Oxide Board wall cladding bud jointed by Supertec (011 868 4900) or equal and approved size 1200 x 3000 x 12mm thick installed flush to plastered walls with 40mm plugged and countersunk stainless steel screws at maximum 500mm centres in both directions (max 75mm from edge)</u>			
74	12mm Thick Board wall cladding bud jointed to plastered walls	m2	494	
	<u>Prepare and install Gradus (011 609 3500) Sanparrel PVC-u panels or equal and approved size 1220 x 2440 x 1,5mm thick sheet installed to board substrate with a Gradus approved adhesive, complete with 2mm joints all round, joints to be sealed with Gradus soft fill, wall boards and PVC-u panels joints to be staggered in all instances, installed strictly to manufacturers specification</u>			
75	Wall cladding	m2	494	
76	Gradus sanparrel PVC 409 inside corner cap or equal and approved	m	474	
77	22 x 22mm Gradus sanparrel PVC 90 degree outside corner guard or equal and approved	m	87	
78	50 x 50mm Gradus sanparrel PVC 90 degree outside corner guard or equal and approved	m	69	
79	50 x 50mm Gradus sanparrel PVC 90 degree outside corner guard or equal and approved around door frames, one leg cut to board thickness for flush finish	m	38	
80	Aluminium U channel end cap at skirting junction	m	266	
	Carried to Collection			R
	Section No. 2 Bill No. 8 Floor Coverings, Wall Linings, etc			

Provisional Bills of Quantities
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Section No. 2 Bill No. 8 Floor Coverings, Wall Linings, etc <u>COLLECTION</u>				
Total Brought Forward from Page No.	Page No		Amount	
	212			
	213			
	214			
	215			
	216			
	217			
	218			
	219			
	220			
	221			
Carried Forward to Summary of Section No. 2		R		
Section No. 2 Bill No. 8 Floor Coverings, Wall Linings, etc				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u> <u>BILL NO. 9</u> <u>IRONMONGERY</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u> The tenderer is referred to the relevant Clauses in the separate document "Model Preambles for Trades (1999 Edition)" and to the "Architectural and Functional General Details" all in accordance with drawings and specifications and must take all requirements that are described therein into account in the cost rates Finishes to ironmongery Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded			
	Carried to Collection		R	
	Section No. 2 Bill No. 9 Ironmongery			

	<u>Proprietary items</u> Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered On request returnable samples are to be provided to the principal agent for consideration <u>FIXING OF IRONMONGERY</u> The contractor must allow for taking delivery, storage and later fix in position on different types of material including profit and waste All the fixing of ironmongery items to doors and frames which require screws shall be deemed to be included in the pricing of the items and screws are to be patented screws and nuts (Code RH7024 Art 500b30) <u>IRONMONGERY FOR TYPE: 01 - WOODEN DD/DA</u> <u>HINGES, BOLTS ETC</u> <u>Union or equal and approved</u> 1 200mm x 19mm Flush bolt Nickel plated (Code 8052-200NP) No 1 <u>DORMA OR EQUAL AND APPROVED</u> 2 Dormakaba floor pivot bearing with angular contact roller bearing, with load capacity maximum 300kg (Code 7475AX) No 2 Carried to Collection Section No. 2 Bill No. 9 Ironmongery				
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3	Dormakaba bottom strap for aluminium doors (Code 7421)	No	2		
	<u>LOCKS</u>				
	<u>Mortice Deadlock W/O Cylinder</u>				
4	79 x 96mm Commercial Grade Lock case to BS- EN12209	No	1		
	<u>Assa Abloy or equal and approved</u>				
5	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	1		
6	Escutcheon Profile (Code SS5305-05SS)	No	2		
	<u>DOOR CLOSER</u>				
	<u>Transom Closer 2-5 Hold Open</u>				
7	Transom recessed door control, 90deg hold open, 120deg opening angle with adjustable power EN 2- 5,2 speed control valve (Code 774)	No	2		
	<u>Union or equal and approved</u>				
8	Stainless steel door brace for 774 transom closer code SS-DB774TP	No	2		
	<u>HANDLES</u>				
9	25mm Diameter x 250mm long pull handle on 94 x 315mm stainless steel back plate (Code SS5DBT0694 x 315)	No	4		
	<u>SUNDRIES</u>				
10	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	1		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 9				
	Ironmongery				

11	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	1		
	<u>IRONMONGERY FOR TYPE : 02 - WOODEN STORE/CLEAN UTILITY SELF LOCKING SD</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Stainless Steel</u>				
12	102 x 76mm Ball bearing hinge to EN1935:2002, Class 13 (Code JH-BB-STD-2-SS BB)	No	106		
	<u>DOOR CLOSER</u>				
	<u>Assa Abloy or equal and approved</u>				
13	Cam Motion Door Closer EN3-6 (Code DC 700)	No	63		
14	Escutcheon Profile (Code SS5305-05SS)	No	98		
	<u>LOCKS</u>				
	<u>Anti Thrust Night Latch W/O Cylinder</u>				
15	129 x 78mm Commercial Grade Emergency Exit Latch Lock Tested to BS-EN12209-2003 (Code L-2349-78SS)	No	53		
	<u>Assa Abloy or equal and approved</u>				
16	65mm Knob Turn Patented double Cylinder to BSEN (Code CY110GMED3333SN)	No	53		
	<u>HANDLES</u>				
17	25mm Diameter x 250mm long pull handle on 94 x 315mm stainless steel back plate (Code SS5DBT0694 x 315)	No	106		
	<u>SUNDRIES</u>				
18	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	53		
	Carried to Collection			R	
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19	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	53		
	<u>IRONMONGERY FOR TYPE : 03 - WOODEN WARD DD/SA</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Stainless Steel</u>				
20	102 x 76mm Ball bearing hinge to EN1935:2002, Class 13 (Code JH-BB-STD-2-SS BB)	No	16		
	<u>Union or equal and approved</u>				
21	200mm x 19mm Flush bolt (Code 8052-200NP)	No	4		
	<u>DOOR CLOSER</u>				
	<u>Eurobrass or equal and approved</u>				
22	Floor mounted door holder (Code EB3209) solid brass with satin nickel finish	No	8		
	<u>Assa Abloy or equal and approved</u>				
23	Escutcheon Profile (Code SS5305-05SS)	No	8		
	<u>LOCKS</u>				
	<u>Union or equal and approved</u>				
24	108 x 78mm Commercial grade lock case powder coated, brass component tested to BS-EN 12209-2003 (Code L-2109-78SS)	No	4		
	Adjustable Roller Catch (Code ARC1182SS)	No	4		
	<u>Assa Abloy or equal and approved</u>				
25	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	4		
	Carried to Collection			R	
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	<u>HANDLES</u>				
	26 25mm Diameter x 250mm long pull handle on 94 x 315mm stainless steel back plate (Code SS5DBT0694 x 315)	No	8		
	<u>IRONMONGERY FOR TYPE: 04 - WOODEN OFFICE SD</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Stainless Steel</u>				
	27 102 x 76mm Ball bearing hinge to EN1935:2002, Class 13 (Code JH-BB-STD-2-SS BB)	No	46		
	<u>LOCKS</u>				
	<u>Assa Abloy or equal and approved</u>				
	28 65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	23		
	<u>Union or equal and approved</u>				
	29 108 x 78mm Commercial grade lock case with drawback latch and silent latch feature (Code L-2215-78SS/SL)	No	23		
	<u>HANDLES</u>				
	<u>Assa Abloy or equal and approved</u>				
	30 22mm Dove lever handle on 152mm x 152mm backplate profile (Code SS6D66-22-05SS)	No	23		
	<u>SUNDRIES</u>				
	31 27mm Wall Door Stop (Code 99011SS) or equal and approved	No	23		
	32 82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	23		
	Carried to Collection			R	
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33	Hat and coat hook with buffer (Code SS8025SS) or equal and approved	No	23		
	<u>IRONMONGERY FOR TYPE: 05 - Wooden WC entrance with Closer-Private Cubicle SD</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Stainless Steel</u>				
34	102 x 76mm Ball bearing hinge to EN1935:2002, Class 13 (Code JH-BB-STD-2-SS BB)	No	10		
	<u>DOOR CLOSER</u>				
	<u>Assa Abloy or equal and approved</u>				
35	Cam Motion Door Closer EN1-4 (Code DC 500)	No	5		
	<u>LOCKS</u>				
	<u>Union or equal and approved</u>				
36	8mm WC Deadlock (Code 21314-76/8SS)	No	5		
	<u>HANDLES</u>				
37	Dove Pull Handle on 152mm x 178mm Backplate, W/C Indicator (Handed RH/LH) (SS5D67TR/TL-5004SS) or equal and approved	No	10		
	<u>SUNDRIES</u>				
38	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	5		
39	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	5		
40	Hat and coat hook with buffer (Code SS8025SS) or equal and approved	No	5		
	<u>IRONMONGERY FOR TYPE: 07 - Entrance Ablution/Sluice/Ward Kitchen SD</u>				
	Carried to Collection			R	
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<u>HINGES, BOLTS ETC</u>					
<u>Stainless Steel</u>					
41	102 x 76mm Ball bearing hinge to EN1935:2002, Class 13 (Code JH-BB-STD-2-SS BB)	No	64		
<u>DOOR CLOSER</u>					
<u>Assa Abloy or equal and approved</u>					
42	Cam Motion Door Closer EN3-6 (Code DC 700)	No	32		
43	Escutcheon Profile (Code SS5305-05SS)	No	64		
<u>LOCKS</u>					
<u>Assa Abloy or equal and approved</u>					
44	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	32		
<u>Union or equal and approved</u>					
45	108 x 78mm Commercial grade lock case powder coated, brass component tested to BS-EN 12209-2003 (Code L-2109-78SS)	No	32		
<u>HANDLES</u>					
46	25mm Diameter x 250mm long pull handle on 94 x 315mm stainless steel back plate (Code SS5DBT0694 x 315)	No	64		
<u>SUNDRIES</u>					
47	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	32		
48	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	32		
<u>IRONMONGERY FOR TYPE: 10 - Wooden Disabled WC/Bathroom/Shower SD</u>					
Carried to Collection				R	
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<u>HINGES, BOLTS ETC</u>					
<u>Stainless Steel</u>					
49	102 x 76mm Ball bearing hinge to EN1935:2002, Class 13 (Code JH-BB-STD-2-SS BB)	No	16		
<u>Assa Abloy or equal and approved</u>					
50	Cam Motion Door Closer EN3-6 de;ayed action (Code DC 700DA)	No	8		
<u>LOCKS</u>					
<u>Union or equal and approved</u>					
51	8mm WC Deadlock (Code 21314-76/8SS)	No	8		
<u>HANDLES</u>					
<u>Assa Abloy or equal and approved</u>					
52	32mm Diameter x 350mm pull handle bolt through, stainless steel 304 (Code 5213BTSS)	No	8		
<u>Union or equal and approved</u>					
53	Dove Pull Handle on 152mm x 178mm Backplate, W/C Indicator (Handed RH/LH) (SS5D67TR/TL-5004SS)	No	16		
<u>SUNDRIES</u>					
54	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	8		
55	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	8		
<u>IRONMONGERY FOR TYPE: 12 - Single/ Double</u>					
<u>Mild Steel Gates</u>					
<u>LOCKS</u>					
Carried to Collection				R	
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	<u>Union or equal and approved</u>				
56	Euro profile mortice hook lock with latch 25mm set back, commercial grade, lock case to EU standards (Code QH25X85MM-SS)	No	1		
	<u>Assa Abloy or equal and approved</u>				
57	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	1		
	<u>HANDLES</u>				
58	150mm Dove Pull Handles back to back (SS5515-150BBSS) or equal and approved	No	1		
	<u>SUNDRIES</u>				
59	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	1		
60	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	1		
	<u>IRONMONGERY FOR TYPE: 13 - Aluminium DD</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Union or equal and approved</u>				
61	35mm Swing bolt profile cylinder type (Code QD35x85MMSW-SS)	No	2		
62	180mm Flush bolt (Code AL8208-180AS/MD)	No	2		
	<u>DOOR CLOSER</u>				
	<u>DORMA OR EQUAL AND APPROVED</u>				
63	Dormakaba floor pivot bearing with angular contact roller bearing, with load capacity maximum 300kg (Code 7475AX)	No	4		
	Carried to Collection			R	
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64	Dormakaba bottom strap for aluminium doors (Code 7421)	No	4		
	<u>Transom Closer 2-5 Hold Open</u>				
65	Transom recessed door control, 90deg hold open, 120deg opening angle with adjustable power EN 2- 5, 2 speed control valve (Code 774)	No	4		
	<u>LOCKS</u>				
	<u>Assa Abloy or equal and approved</u>				
66	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	2		
	<u>Union or equal and approved</u>				
67	Narrow stile escutcheon for aluminium (Code PZ-05)	No	4		
	<u>HANDLES</u>				
68	32mm Pull Handle cranked back to back (5905BBSS)	No	4		
	<u>SUNDRIES</u>				
69	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	2		
70	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	2		
	<u>IRONMONGERY FOR TYPE: 14 - Aluminium SD</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Union or equal and approved</u>				
71	35mm Swing bolt profile cylinder type (Code QD35x85MMSW-SS)	No	1		
	<u>DOOR CLOSER</u>				
	Carried to Collection			R	
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	<u>DORMA OR EQUAL AND APPROVED</u>				
72	Dormakaba floor pivot bearing with angular contact roller bearing, with load capacity maximum 300kg (Code 7475AX)	No	1		
73	Dormakaba bottom strap for aluminium doors (Code 7421)	No	1		
	<u>Transom Closer 2-5 Hold Open</u>				
74	Transom recessed door control, 90deg hold open, 120deg opening angle with adjustable power EN 2-5, 2 speed control valve (Code 774)	No	1		
	<u>LOCKS</u>				
	<u>Assa Abloy or equal and approved</u>				
75	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	1		
	<u>Union or equal and approved</u>				
76	Narrow stile escutcheon for aluminium (Code PZ-05)	No	2		
	<u>HANDLES</u>				
77	350mm D shaped Pull Handle back to back (5213BBSS)	No	1		
	<u>SUNDRIES</u>				
78	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	1		
79	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	1		
	<u>IRONMONGERY FOR TYPE: 15 - Wooden Store Self Locking DD</u>				
	Carried to Collection			R	
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<u>HINGES, BOLTS ETC</u>					
<u>Stainless Steel</u>					
80	102 x 76mm Ball bearing hinge to EN1935:2002, Class 13 (Code JH-BB-STD-2-SS BB) or equal and approved	No	12		
<u>Union or equal and approved</u>					
81	200mm x 19mm Flush bolt (Code 8052-200NP)	No	3		
<u>DOOR CLOSER</u>					
<u>Assa Abloy or equal and approved</u>					
82	Door closer size 3-5RA (Code 737) Parallel arm bracket must be used on doors opening outwards (Code 410178)	No	3		
83	Escutcheon Profile (Code SS5305-05SS)	No	6		
<u>LOCKS</u>					
<u>Anti Thrust Night Latch W/O Cylinder</u>					
84	129 x 78mm Commercial Grade Emergency Exit Latch Lock Tested to BS-EN12209-2003 (Code L-2349-78SS) or equal and approved	No	3		
<u>Assa Abloy or equal and approved</u>					
85	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	3		
<u>HANDLES</u>					
86	25mm Diameter x 250mm long pull handle on 94 x 315mm stainless steel back plate (Code SS5DBT0694 x 315)	No	6		
Carried to Collection				R	
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	<u>SUNDRIES</u>				
87	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	6		
88	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	6		
	<u>IRONMONGERY FOR TYPE: 16 - Access Controlled DoorDD/DS (Aluminium Door & Frame)</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Union or equal and approved</u>				
89	180mm Flush bolt (Code AL8208-180AS/MD)	No	4		
	<u>DOOR CLOSER</u>				
	<u>Assa Abloy or equal and approved</u>				
90	Dormakaba floor pivot bearing with angular contact roller bearing, with load capacity max. 300kg (Code 7475AX)	No	8		
91	Dormakaba bottom strap for aluminium doors (Code 7422)	No	8		
	<u>Transom Closer 2-5 Hold Open</u>				
92	Transom recessed door control, non-hold open, 120deg opening angle with adjustable power EN 2-5,2 speed control valve (Code 773)	No	8		
	<u>HANDLES</u>				
93	32mm Pull Handle cranked back to back (5905BBSS) or equal and approved	No	8		
	<u>SUNDRIES</u>				
94	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	4		
	Carried to Collection			R	
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95	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	4		
	<u>IRONMONGERY FOR TYPE: 20 - Wooden/Aluminium Sliding Double-Electric</u>				
	<u>HINGES, BOLTS ETC</u>				
96	180mm x 20mm Flush bolt anodised aluminium (Code H460)	No	22		
	<u>Union or equal and approved</u>				
97	Narrow Slide hook bolt lock-euro profile (Code 4241255NM) 174 x 38mm commercial grade lock case to EU standards	No	11		
	<u>SLIDING GEAR</u>				
98	Besam Automatic Bi-Parting sliding Operator to suite sliding aluminium door or equal and approved size maximum 2000mm x 2125mm high	No	13		
	<u>LOCKS</u>				
	<u>Assa Abloy or equal and approved</u>				
99	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	11		
	<u>Union or equal and approved</u>				
100	Escutcheon on rose profile (Code PZ-05SS)	No	22		
	<u>HANDLES</u>				
	<u>Union or equal and approved</u>				
101	50 x 101mm Flush pull handle 12mm deep (Code 99004SS)	No	44		
	<u>IRONMONGERY FOR TYPE: 23 - Wooden Fire/Electrical Duct DD/SS</u>				
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	<u>Stainless Steel</u>				
102	102 x 76mm Ball bearing hinge to EN1935:2002, Class 13 (Code JH-BB-STD-2-SS BB)	No	140		
	<u>LOCKS</u>				
	<u>Union or equal and approved</u>				
	Adjustable Roller Catch (Code ARC1182SS)	No	35		
	<u>HANDLES</u>				
103	Dove Pull Handles on 45 x 192mm high backplate (SS5D02SS) or equal and approved	No	70		
	<u>SUNDRIES</u>				
104	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	35		
105	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	35		
	<u>IRONMONGERY FOR TYPE: 24 - Wooden DD/SA without door closer</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Stainless Steel</u>				
106	102 x 76mm Ball bearing hinge to EN1935:2002, Class 13 (Code JH-BB-STD-2-SS BB)	No	92		
	<u>Union or equal and approved</u>				
107	200mm x 19mm Flush bolt (Code 8052-200NP)	No	23		
	<u>LOCKS</u>				
	<u>Assa Abloy or equal and approved</u>				
108	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	23		
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109	Escutcheon Profile (Code SS5305-05SS)	No	46		
	<u>Union or equal and approved</u>				
110	Euro Cylinder deadlock Case SS, 108 x 78mm Commercial grade lock case, powder coated with brass components (Code L-2109-78SS)	No	23		
111	Rebate conversion set (Code 2900SS)	No	23		
	Adjustable Roller Catch (Code ARC1182SS)	No	23		
	<u>HANDLES</u>				
112	25mm Diameter x 250mm long pull handle on 94 x 315mm stainless steel back plate (Code SS5DBT0694 x 315)	No	46		
	<u>SUNDRIES</u>				
113	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	23		
114	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	23		
	<u>IRONMONGERY FOR TYPE: 30 - Aluminium Duct SD</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Stainless Steel</u>				
115	Sinkless hinge (Code 8352-100FLSS) or equal and approved	No	42		
	<u>LOCKS</u>				
	<u>Assa Abloy or equal and approved</u>				
116	32mm Half Patented Cylinder GMK commercial use half cylinder BSEN (Code CY110GMES3310SN)	No	21		
	Carried to Collection			R	
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	<u>Union or equal and approved</u>				
	Profile Roller Catch deadlock with 35mm stainless steel bracket (Code QR35X85MM-SS)	No	21		
117	Narrow stile escutcheon for aluminium (Code PZ-05)	No	21		
	<u>HANDLES</u>				
	<u>Union or equal and approved</u>				
118	50 x 101mm Flush pull handle 12mm deep (Code 99004SS)	No	21		
	<u>SUNDRIES</u>				
119	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	21		
120	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	21		
	<u>IRONMONGERY FOR TYPE: 34 - Wooden Access Controlled door SD</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Stainless Steel</u>				
121	102 x 76mm Ball bearing hinge to EN1935:2002, Class 13 (Code JH-BB-STD-2-SS BB)	No	20		
	<u>DOOR CLOSER</u>				
	<u>Assa Abloy or equal and approved</u>				
122	Cam Motion Door Closer EN3-6 (Code DC 700)	No	10		
	<u>LOCKS</u>				
123	Salto XS4 Electronic lock (Code Ex751) or equal and approved	No	10		
	Carried to Collection			R	
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	<u>HANDLES</u>				
124	350mm Stainless steel back to back D shaped pull handle (Code SS5213BBSS)	No	10		
	<u>SUNDRIES</u>				
125	Floor door Stop (Code 87001SS) or equal and approved	No	10		
	<u>IRONMONGERY FOR TYPE: 35 - Wooden Access Controlled door DD</u>				
	Lock and Cylinder as specified by Security Specialist				
	<u>HINGES, BOLTS ETC</u>				
	<u>Stainless Steel</u>				
126	102 x 76mm Ball bearing hinge to EN1935:2002, Class 13 (Code JH-BB-STD-2-SS BB)	No	4		
	<u>Union or equal and approved</u>				
127	200mm x 19mm Flush bolt nickel plated (Code 8052-200NP)	No	1		
	<u>DOOR CLOSER</u>				
	<u>Assa Abloy or equal and approved</u>				
128	Cam Motion Door Closer EN3-6 (Code DC 700)	No	2		
	<u>HANDLES</u>				
129	25mm Diameter x 250mm long pull handle on 94 x 315mm stainless steel back plate (Code SS5DBT0694 x 315)	No	2		
	<u>SUNDRIES</u>				
130	Floor door Stop (Code 87001SS) or equal and approved	No	2		
	Carried to Collection			R	
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<u>IRONMONGERY FOR TYPE: 45 - Wooden Fire/Electrical Duct SD/SS</u>					
<u>HINGES, BOLTS ETC</u>					
<u>Stainless Steel</u>					
131	102 x 76mm Ball bearing hinge to EN1935:2002, Class 13 (Code JH-BB-STD-2-SS BB)	No	2		
<u>LOCKS</u>					
<u>Union or equal and approved</u>					
	Adjustable Roller Catch (Code ARC1182SS) or equal and approved	No	2		
<u>HANDLES</u>					
132	Dove Pull Handles on 45 x 192mm high backplate (SS5D02SS)	No	1		
<u>SUNDRIES</u>					
133	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	1		
134	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	1		
<u>IRONMONGERY FOR TYPE: 51 - Aluminium Hinged DD/SD</u>					
<u>HINGES, BOLTS ETC</u>					
<u>Stainless Steel</u>					
135	Sinkless hinge (Code 8352-100FLSS)	No	64		
<u>Union or equal and approved</u>					
136	180mm Flush bolt (Code AL8208-180AS/MD)	No	16		
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<u>LOCKS</u>					
<u>Assa Abloy or equal and approved</u>					
137	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	16		
<u>Union or equal and approved</u>					
138	35mm Swing bolt profile cylinder type (Code QD35x85MMSW-SS)	No	16		
139	Narrow stile escutcheon for aluminium (Code PZ-05)	No	32		
	Adjustable Roller Catch (Code ARC1182SS)	No	16		
<u>HANDLES</u>					
140	32mm Pull Handle cranked back to back (5905BBSS)	No	32		
<u>SUNDRIES</u>					
141	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	16		
142	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	16		
<u>IRONMONGERY FOR TYPE: 54 - WoodenAluminium Sliding Single-Electric</u>					
<u>SLIDING GEAR</u>					
143	Besam Automatic Bi-Parting sliding Operator to suite sliding aluminium door or equal and approved size maximum 2000mm x 2125mm high	No	1		
<u>LOCKS</u>					
Carried to Collection				R	
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	<u>Union or equal and approved</u>				
144	Narrow Slide hook bolt lock-euro profile(Code 4241255NM) 174 x 38mm commercial grade lock case to EU standards	No	1		
	<u>Assa Abloy or equal and approved</u>				
145	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	1		
	<u>Union or equal and approved</u>				
146	Escutcheon on rose profile (Code PZ-05SS)	No	2		
	<u>HANDLES</u>				
	<u>Union or equal and approved</u>				
147	50 x 101mm Flush pull handle 12mm deep (Code 99004SS)	No	2		
	<u>IRONMONGERY FOR TYPE: 55 - Aluminium Duct DD</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Stainless Steel</u>				
148	Sinkless hinge (Code 8352-100FLSS)	No	40		
	<u>Union or equal and approved</u>				
149	180mm Flush bolt (Code AL8208-180AS/MD)	No	12		
	<u>LOCKS</u>				
	<u>Assa Abloy or equal and approved</u>				
150	32mm Half Patented Cylinder GMK commercial use half cylinder BSEN (Code CY110GMES3310SN)	No	12		
	Carried to Collection			R	
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	<u>Union or equal and approved</u>				
	Roller Catch swing deadbolt with 35mm stainless steel bracket (Code QR35X85MM-SS)	No	12		
151	Narrow stile escutcheon for aluminium (Code PZ-05)	No	12		
	<u>HANDLES</u>				
	<u>Union or equal and approved</u>				
152	50 x 101mm Flush pull handle 12mm deep (Code 99004SS)	No	24		
	<u>SUNDRIES</u>				
153	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	12		
154	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	12		
	<u>IRONMONGERY FOR TYPE: 56 - Aluminium Hinged Single Door</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Stainless Steel</u>				
155	Sinkless hinge (Code 8352-100FLSS) or equal and approved	No	54		
	<u>LOCKS</u>				
	<u>Assa Abloy or equal and approved</u>				
156	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	27		
	<u>Union or equal and approved</u>				
157	35mm Deadlock profile type (Code QD35x85MM-SS)	No	27		
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158	Narrow stile escutcheon for aluminium (Code PZ-05)	No	54			
	Adjustable Roller Catch (Code ARC1182SS)	No	27			
	<u>HANDLES</u>					
159	350mm Stainless steel back to back D shaped pull handle (Code 5213BBSS)	No	27			
	<u>SUNDRIES</u>					
160	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	27			
161	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	27			
	<u>IRONMONGERY FOR TYPE: 57 - Aluminium Sliding Folding Door</u>					
	<u>SLIDING GEAR</u>					
162	Henderson Securefold for aluminium 75kg top hung folding door comprising top track, bottom guide channel or aluminium threshold, consisting of 316 stainless steel components for corrosion, including hinges, flush bolt and pulls aluminium doormm xmm high, not exceeding 75kg	No	3			
	<u>LOCKS</u>					
	<u>Union or equal and approved</u>					
163	Narrow Slide hook bolt lock-euro profile(Code 4241255NM) 174 x 38mm commercial grade lock case to EU standards	No	3			
164	Escutcheon on rose profile (Code PZ-05SS)	No	6			
	<u>Assa Abloy or equal and approved</u>					
165	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	3			
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<u>HANDLES</u>					
<u>Union or equal and approved</u>					
166	50 x 101mm Flush pull handle 12mm deep (Code 99004SS)	No	6		
<u>IRONMONGERY FOR TYPE: 61 - Single/Double Mild Steel Gates (Padlock)</u>					
<u>SUNDRIES</u>					
167	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	2		
168	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	2		
<u>IRONMONGERY FOR TYPE: 81 - Access Controlled Aluminium Sliding Double Electric</u>					
Lock and Cylinder as specified by Security Specialist					
<u>HINGES, BOLTS ETC</u>					
<u>Union or equal and approved</u>					
169	180mm Flush bolt (Code AL8208-180AS/MD)	No	2		
<u>SLIDING GEAR</u>					
170	Besam Automatic Bi-Parting sliding Operator to suite sliding aluminium door or equal and approved size maximum 2000mm x 2125mm high	No	1		
<u>LOCKS</u>					
<u>Union or equal and approved</u>					
171	Escutcheon on rose profile (Code PZ-05SS)	No	2		
<u>HANDLES</u>					
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	<u>Union or equal and approved</u>				
172	50 x 101mm Flush pull handle 12mm deep (Code 99004SS)	No	4		
	<u>IRONMONGERY FOR TYPE: 103 - Access Controlled Aluminium Hinged Single Door</u>				
	Lock and Cylinder as specified by Security Specialist				
	<u>HINGES, BOLTS ETC</u>				
	<u>Stainless Steel</u>				
173	Sinkless hinge (Code 8352-100FLSS)	No	2		
	<u>LOCKS</u>				
	<u>Union or equal and approved</u>				
174	Narrow stile escutcheon for aluminium (Code PZ-05)	No	2		
	Adjustable Roller Catch (Code ARC1182SS)	No	1		
	<u>HANDLES</u>				
175	350mm Stainless steel back to back D shaped pull handle (Code 5213BBSS)	No	1		
	<u>SUNDRIES</u>				
176	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	1		
177	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	1		
	<u>IRONMONGERY FOR TYPE: 106 - Wooden Access Control SD</u>				
	<u>HINGES, BOLTS ETC</u>				
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	<u>Stainless Steel</u>				
178	Sinkless hinge (Code 8352-100FLSS) or equal and approved	No	46		
179	200mm Alu RFLX hinge ano pair (Code 8352-200SN) or equal and approved	No	46		
	<u>LOCKS</u>				
180	Salto XS4 Electronic lock (Code Ex751) or equal and approved	No	46		
	<u>Union or equal and approved</u>				
	Adjustable Roller Catch (Code ARC1182SS)	No	46		
	<u>SUNDRIES</u>				
181	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	46		
182	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	92		
183	Hat and coat hook with buffer (Code SS8025SS) or equal and approved	No	46		
	<u>IRONMONGERY FOR TYPE: 107 - Wooden Entrance Ablution SD</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Stainless Steel</u>				
184	200mm Alu RFLX hinge ano pair (Code 8352-200SN) or equal and approved	No	20		
	<u>Union or equal and approved</u>				
185	Spring latch and dead bolt lock (Code Q35X85MM-SS)	No	10		
	<u>DOOR CLOSER</u>				
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	<u>Assa Abloy or equal and approved</u>				
186	Cam Motion Door Closer EN3-6 (Code DC 700)	No	10		
	<u>LOCKS</u>				
	<u>Assa Abloy or equal and approved</u>				
187	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	10		
	<u>Union or equal and approved</u>				
188	Sandpiper narrow stile stainless steel furniture with Euro profile cylinder piercing (Code 8503-05SS)	No	10		
	<u>SUNDRIES</u>				
189	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	10		
190	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	10		
	<u>IRONMONGERY FOR TYPE: 110 - Aluminium</u>				
	<u>Panel Screen SD</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Stainless Steel</u>				
191	Sinkless hinge (Code 8352-100FLSS)	No	4		
	<u>LOCKS</u>				
	<u>Assa Abloy or equal and approved</u>				
192	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	2		
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	<u>Union or equal and approved</u>				
193	Narrow Slide escutcheon for aluminium door (Code PZ-05)	No	2		
	Roller Catch swing deadbolt with 35mm stainless steel bracket (Code QR35X85MM-SS)	No	2		
	<u>HANDLES</u>				
	<u>Union or equal and approved</u>				
194	50 x 101mm Flush pull handle 12mm deep (Code 99004SS)	No	2		
	<u>SUNDRIES</u>				
195	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	2		
196	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	2		
	<u>IRONMONGERY FOR TYPE: 111 - Aluminium Panel Screen SD</u>				
	<u>HINGES, BOLTS ETC</u>				
	<u>Stainless Steel</u>				
197	Sinkless hinge (Code 8352-100FLSS)	No	4		
	<u>Union or equal and approved</u>				
198	180mm Flush bolt (Code AL8208-180AS/MD)	No	1		
	<u>LOCKS</u>				
	<u>Assa Abloy or equal and approved</u>				
199	65mm Patented double Cylinder GMK commercial use 6 pin double cylinder to BSEN (Code CY110GMED3333SN)	No	1		
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	<u>Union or equal and approved</u>				
200	Narrow Slide escutcheon for aluminium door (Code PZ-05)	No	1		
	Roller Catch swing deadbolt with 35mm stainless steel bracket (Code QR35X85MM-SS)	No	1		
	<u>HANDLES</u>				
	<u>Union or equal and approved</u>				
201	50 x 101mm Flush pull handle 12mm deep (Code 99004SS)	No	1		
	<u>SUNDRIES</u>				
202	27mm Wall Door Stop (Code 99011SS) or equal and approved	No	1		
203	82mm Wall Projection Door Stop (Code 99022SS) or equal and approved	No	1		
	<u>SUNDRIES</u>				
204	Standard 500mm long aluminium multi rack hat and coat hooks Union (Code: AL8104AS) or equal and approved with 4 hooks installed strictly to manufactures specifications	No	29		
205	Standard 457mm long x 139mm wide towel hooks by Stieglmeyer (021 555 1415) (Model: ITS-410) or equal and approved installed strictly to manufacturers specifications	No	3		
206	Broom and mop hook of purpose made stainless steel back plate 1,6mm thick x 900 x 450mm high non magnetic with grid 180 satin finish glued and screwed to wall surface with approved adhesive and six counter sunk stainless steel screws, complete with 900mm long stainless steel standard rail with five broom hooks by Hychem Accessories or equal and approved	No	9		
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207	1200mm Long garden rack (Code: DH-LT1200) with five hooks (DH-LU) by Storage Direct (011 608 0250) or equal and approved installed strictly to manufacturers specifications	No	8		
	<u>GRAB RAILS, ETC</u>				
	Grabs rails, etc. by Stainless Steel design (012 951 5000) or equal and approved				
208	Standard 800mm long x 150mm projecting straight disabled rail (Code KB18) installed strictly to manufactures instructions	No	15		
209	Standard 800mm long x 150mm projecting straight disabled rail (code KB18) by Stainless Steel Design or equal and approved installed strictly to manufacturers specification	No	15		
210	Standard 300 x 300 x 300 x 80mm projecting dog leg side rail (Code KB26) installed strictly to manufactures instructions	No	15		
	<u>BATHROOM FITTINGS</u>				
	<u>Bathroom fittings by Franke (0861 372 653) or equal and approved</u>				
	<u>Grade 304 18/10 stainless steel:</u>				
211	Franke Stratos STRX600 12mm thick satin finished stainless steel paper towel dispenser (Code 2120038) size 300 x 134 x 305mm high with capacity of 300-400 towel and cylinder lock with standard Franke key, plugged and screwed to wall with stainless steel screws	No	40		
212	Franke stainless steel wall mounted toilet roll holder STRX672 (Code 2120044), plugged to wall	No	79		
213	Franke Stratos STRX605 1,2mm thick satin finished stainless steel waste bin (Code 2120048) size 300 x 270 x 520mm high, capacity of 34 litres and cylinder lock and standard Franke key plugged to wall	No	48		
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214	Franke Stratos STRX611 1,2/1,5mm thick satin finished stainless steel sanitary towel disposal bin (Code 2120050) size 205 x 134 x 305mm high with capacity of 3,8 litres plugged to wall	No	53		
215	Franke standard stainless steel wall mounted soap dispenser STRX618 (Code 2120041) plugged to wall	No	79		
216	Franke Chronos BS 648 grade 18/10 satin stainless steel soap tray (Code 2120075) size 195 x 96mm deep plugged to walls	No	11		
	<u>SEATS</u>				
217	Shower seat galvanized and epoxy coated with manual flip up mechanism, frame from 25mm round steel tube with 2mm wall thickness complete with brackets for wall fixing, seat in perforated mild steel welded to frame size 380mm wide x 480mm deep, supplied by Masakhane (012 361 1214) or equal and approved	No	3		
	<u>CABINETS, ETC.</u>				
	<u>Instrument cabinet by Frankie or equal and approved</u>				
218	900 x 300 x 600mm High stainless steel purpose made wall cupboard made without door with one shelf fixed to wall with stainless steel bolts to comply with SABS standards (CUPW028)	No			
	<u>Drug cabinet by Ingwe Craft (083 377 1919) or equal and approved</u>				
219	Standard 711 x 280 x 711mm high lockable mild steel type cabinet complete with internal lockable compartment and shelves (Type d) finished with PPA 200 micron cost finish (Code: MC 20)	No	2		
220	Standard 711 x 280 x 762mm high lockable mild steel type cabinet complete with internal lockable compartment and shelves (Type d) finished with PPA 200 micron cost finish (Code: MC 20)	No	2		
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	<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</u>				
	Pinning, Writing boards by Parrot Products (0861 262 737) or equal and approved				
221	Purpose made white writing board size 1500mm wide x 1000mm high with fold away aluminium pentray, anodised aluminium slimline frame 18mm wide with concealed mounting fixed to wall installed strictly to manufacturers specifications (BOA004)	No	55		
222	Purpose made white writing board size 2000mm wide x 1000mm high with fold away aluminium pentray, anodised aluminium slimline frame 18mm wide with concealed mounting fixed to wall installed strictly to manufacturers specifications (BOA006)	No	16		
223	Purpose made white writing board size 2400mm wide x 1000mm high with fold away aluminium pentray, anodised aluminium slimline frame 18mm wide with concealed mounting fixed to wall installed strictly to manufacturers specifications (BOA007)	No	27		
224	Standard made bulletin board (Code: BD0444C) size 1000mm wide x 1000mm high with fold away aluminium pentray, anodised aluminium standard frame 20mm wide with concealed mounting fixed to wall installed strictly to manufacturers specifications (BOA010)	No	9		
225	Purpose made bulletin board size 1500mm wide x 1000mm high with fold away aluminium pentray, anodised aluminium standard frame 20mm wide with concealed mounting fixed to wall installed strictly to manufacturers specifications (BOA012)	No	66		
226	Hinged pinning display case size 900mm wide x 600mm high x 60mm deep, aluminium frame with reinforced plastic corners, hinges door of aluminium frame and 4mm toughened glass and security lock with 2 keys built into door frame, weather resistant plugged to wall (BOA019)	No	25		
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227	Purpose made patient name board and bed number white board size 250mm wide x 270mm high, anodised aluminium slimline frame 18mm wide with concealed mounting fixed to wall installed strictly to manufacturers specifications with printed lettering to attached detailed drawing (BOA023) (HDG-046-008)	No	9		
228	Multi-purpose paper gripper 1000mm long (Code: SKU:BD9342A) plugged to wall (BOA029)	No	20		
	<u>X-RAY VIEWING SCREEN</u>				
229	Standard one plate surface mounted single x-ray viewing screen size 360 x 429mm high complete with switch and fluorescent lamps by Hutz (Code: HU-XRU-W-01) or equal and approved installed strictly to manufacturers specifications	No			
	<u>ELECTRICAL HAND DRIERS</u>				
230	Franke HF2400 HD grade 304 1,2/1,5mm thick stainless steel automatic hands free hand dryer (Code 2500001) size 284 x 202 x 248mm deep or equal and approved with vandal proof lock screws and key wrench, plugged to wall, 200W motor connected to 230/240 volt power supply, installed strictly to manufacturers specifications	No	10		
	<u>BLINDS</u>				
	<u>Aluminium Venetian Blinds by Hospi-Track (011 824 2293) or equal and approved of 50mm wide slat with matching De Luxe 50 x 50mm head rail including brass cordlock and galvanised tilt mechanism fixed to one side of handrail including heavy duty universal box brackets complete with matching authentic wood bottom rail, valance, bottom bottoms and tassels installed strictly to manufacturers specifications</u>				
231	Venetian blind size 600mm wide x 850mm long	No	1		
232	Venetian blind size 600mm wide x 2295mm long	No	1		
233	Venetian blind size 600mm wide x 2380mm long	No	13		
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234	Venetian blind size 600mm wide x 2831mm long	No	10		
235	Venetian blind size 600mm wide x 2975mm long	No	7		
236	Venetian blind size 600mm wide x 3145mm long	No	11		
237	Venetian blind size 758mm wide x 2380mm long	No	1		
238	Venetian blind size 815mm wide x 2380mm long	No	1		
239	Venetian blind size 885mm wide x 2210mm long	No	1		
240	Venetian blind size 885mm wide x 3145mm long	No	2		
241	Venetian blind size 900mm wide x 2295mm long	No	4		
242	Venetian blind size 900mm wide x 2380mm long	No	1		
243	Venetian blind size 900mm wide x 2720mm long	No	5		
244	Venetian blind size 900mm wide x 2975mm long	No	1		
245	Venetian blind size 900mm wide x 3145mm long	No	1		
246	Venetian blind size 922mm wide x 1020mm long	No	1		
247	Venetian blind size 1020mm wide x 3315mm long	No	3		
248	Venetian blind size 1200mm wide x 2295mm long	No	1		
249	Venetian blind size 1264mm wide x 1190mm long	No	1		
250	Venetian blind size 1428mm wide x 3185mm long	No	1		
251	Venetian blind size 1485mm wide x 2720mm long	No	1		
252	Venetian blind size 1485mm wide x 2380mm long	No	3		
253	Venetian blind size 1500mm wide x 1955mm long	No	1		
254	Venetian blind size 1500mm wide x 2380mm long	No	2		
255	Venetian blind size 1500mm wide x 2805mm long	No	1		
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256	Venetian blind size 1500mm wide x 2975mm long	No	1		
257	Venetian blind size 1674mm wide x 1955mm long	No	2		
258	Venetian blind size 1745mm wide x 2380mm long	No	2		
259	Venetian blind size 1792mm wide x 1190mm long	No	1		
260	Venetian blind size 1800mm wide x 1955mm long	No	2		
261	Venetian blind size 1800mm wide x 2720mm long	No	1		
262	Venetian blind size 1800mm wide x 2380mm long	No	6		
263	Venetian blind size 1800mm wide x 2975mm long	No	2		
264	Venetian blind size 1800mm wide x 3230mm long	No	1		
265	Venetian blind size 2100mm wide x 2975mm long	No	2		
266	Venetian blind size 2100mm wide x 2380mm long	No	4		
267	Venetian blind size 2400mm wide x 1955mm long	No	2		
268	Venetian blind size 2400mm wide x 2975mm long	No	2		
269	Venetian blind size 2400mm wide x 2380mm long	No	6		
270	Venetian blind size 2579mm wide x 850mm long	No	1		
271	Venetian blind size 2700mm wide x 3145mm long	No	1		
272	Venetian blind size 3125mm wide x 1190mm long	No	1		
	<u>Custom made Roller Block out Blinds (Manual) by Luxaflex (011 251 7002) or equal and approved installed strictly to manufactures specification</u>				
273	Roller blind size 455mm wide x 935mm high	No	1		
274	Roller blind size 585mm wide x 2380mm high	No	1		
275	Roller blind size 585mm wide x 2720mm high	No	19		
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276	Roller blind size 600mm wide x 2720mm high	No	21		
277	Roller blind size 600mm wide x 3060mm high	No	3		
278	Roller blind size 800mm wide x 3707mm high	No	1		
279	Roller blind size 885mm wide x 2380mm high	No	2		
280	Roller blind size 885mm wide x 2720mm high	No	1		
281	Roller blind size 900mm wide x 2295mm high	No	1		
282	Roller blind size 900mm wide x 2380mm high	No	6		
283	Roller blind size 900mm wide x 2720mm high	No	25		
284	Roller blind size 900mm wide x 2975mm long	No	1		
285	Roller blind size 900mm wide x 4250mm long	No	1		
286	Roller blind size 1302mm wide x 935mm high	No	1		
287	Roller blind size 1140mm wide x 2720mm high	No	1		
288	Roller blind size 1500mm wide x 2380mm high	No	1		
289	Roller blind size 1588mm wide x 850mm high	No	2		
290	Roller blind size 1610mm wide x 935mm high	No	2		
291	Roller blind size 1785mm wide x 2380mm high	No	1		
292	Roller blind size 1785mm wide x 3230mm high	No	4		
293	Roller blind size 1800mm wide x 2493mm long	No	1		
294	Roller blind size 1800mm wide x 2720mm high	No	4		
295	Roller blind size 1800mm wide x 2380mm high	No	1		
296	Roller blind size 1800mm wide x 2890mm long	No	1		
297	Roller blind size 1800mm wide x 3230mm high	No	4		
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298	Roller blind size 2134mm wide x 935mm high	No	1		
299	Roller blind size 2157mm wide x 935mm high	No	1		
300	Roller blind size 2175mm wide x 850mm high	No	1		
301	Roller blind size 2400mm wide x 2295mm high	No	2		
302	Roller blind size 2715mm wide x 850mm high	No	1		
303	Roller blind size 2723mm wide x 3825mm high	No	1		
304	Roller blind size 2735mm wide x 850mm high	No	2		
305	Roller blind size 2770mm wide x 850mm high	No	1		
306	Roller blind size 2771mm wide x 850mm high	No	1		
307	Roller blind size 2787mm wide x 850mm high	No	2		
308	Roller blind size 2800mm wide x 850mm high	No	4		
309	Roller blind size 2826mm wide x 850mm high	No	4		
310	Roller blind size 2828mm wide x 3825mm high	No	1		
311	Roller blind size 2850mm wide x 3825mm high	No	1		
312	Roller blind size 2957mm wide x 850mm high	No	2		
313	Roller blind size 2965mm wide x 2465mm high	No	1		
314	Roller blind size 3300mm wide x 1955mm high	No	1		
315	Roller blind size 3300mm wide x 2380mm high	No	1		
316	Roller blind size 3442mm wide x 850mm high	No	1		
317	Roller blind size 3350mm wide x 2975mm high	No	3		
318	Roller blind size 3600mm wide x 2720mm high	No	1		
319	Roller blind size 3642mm wide x 2975mm high	No	2		
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320	Roller blind size 3716mm wide x 3825mm high	No	5		
321	Roller blind size 3727mm wide x 3825mm high	No	3		
322	Roller blind size 3780mm wide x 935mm high	No	1		
323	Roller blind size 3871mm wide x 850mm high	No	1		
324	Roller blind size 3885mm wide x 2465mm high	No	1		
325	Roller blind size 4316mm wide x 850mm high	No	1		
326	Roller blind size 5623mm wide x 5270mm high	No	1		
<u>BED CURTAIN TRACKS</u>					
<u>Natural anodised (10micron) extruded profile H/S43353 bed curtain track by Hospi-track (011 824 2293) (Code: SK/CFix) or equal and approved including all runners (12 per meter), end stops, spacers, wall mountings, firm fixed end caps/stoppers fixed to ceiling, secured through suspended ceiling grid system and supported from steel roof trusses or concrete slab installed complete as per the manufacturer's instructions</u>					
327	Curtain track including 12 gliders per metre, hangers, brackets, stopped ends, etc	m	53		
<u>BED CURTAINS</u>					
<u>CODE: H/T/BS/N100/9 Cubicle Curtain by Hospi-Track (011 824 2293) or equal and approved manufactured with non-iron, non-stain, shrink free, flame retardant, nylon free, fully washable air-vented netting composition to be aluminium thread inserted with curtain tie back attached in 100% polyester material to match curtain fabric, sewn onto one end and completed with velcro back strapping. Curtains standard with ration of 1:25 of length of cubicle rail</u>					
328	Cubicle curtain for cubicle track, length of curtain from track to bottom 1690mm high	m	6		
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329	Cubicle curtain for cubicle track, length of curtain from track to bottom 2758mm high m	47		
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	<u>SECTION NO. 2</u> <u>BILL NO. 9</u> <u>STRUCTURAL STEELWORK</u> <u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u> <u>SUPPLEMENTARY PREAMBLES</u> All structural steelwork shall be fabricated and erected in accordance with SABS 1200H. All dimensions shall be checked on site before shop drawings commence, any discrepancies shall be brought to the attention of the Engineer. A complete set of shop drawing shall be submitted to the Engineer for approval before fabrication commences. The contractor shall allow 2 weeks for checking and approval by the Engineer and shall also allow for any possible changes to shop drawings. The contractor shall design all welds and, where necessary, gussets of sufficient strength shall be provided to obtain the required weld lengths. Setting-out points (S.O.P'S) at member centroids shall conform to those shown on general arrangement drawings. No eccentricities, except those shown on the Engineer's drawings, shall be allowed. All structural steelwork shall be grade S355JR, except cold formed hollow sections which shall be commercial grade. A certificate from the steel manufacturer in which the grade or the structural steel is verified shall be handed to the Engineer for approval.			
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	All structural bolts shall be grade 4.8 unless otherwise noted. The proposed method and sequence of erection of the structure shall be submitted to the Engineer for written approval. Such submission is to take place at time of shop drawing submittal. The contractor shall indicate the proposed method of propping to ensure stability of the structure during erection. Such stability during erection remains the contractor's responsibility. Where temporary bracing or propping is necessary, the contractor shall be responsible for the design, erection, maintenance and removal (where necessary) of such supports. Proposal of such bracing or propping shall be submitted to the Engineer at an early stage for written approval. System No 012 from SABS 0120 : Part 3 Section HC-1988 shall be used for the corrosion protection of structural steel, and is as follows: A. Removal all slag from welded joints to expose the steelwork. B. Preparation of steelwork shall be executed in dry conditions in the workshop and consist of mechanical wire brush to standard SIS 05 59 00 St 2. C. First coat (30µm minimum): Zinc phosphate this later shall be applied within 4 hours preparation. D. Second coat (30µm minimum): Alkyd enamel E. All paint shall be applied strictly in accordance with SABS 1200 HC-1988 and the manufacturer's instructions. F. Repair of damaged paint and painting of site connection and connectors shall be in accordance with SABS 1200 HC and SABS 0120 : Part 3 Section HC. G. The standard of preparation of the steelwork and the thicknesses of the different coats of paint shall be verified according to SABS 1200 HC Clause 7 H. External steel to be hot dip galvanised to SANS/ISO 1461 Where applicable, grout shall be provided under base plated before any primary loads are applied to the structure. Carried to Collection Section No. 2 Bill No. 10 Structural Steelwork				
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	System No 150 from SABS 0120 : Part 3 section HC-1988 shall be used for the corrosion protection of the structural steel and is as follows: A. Preparation of steelwork and application of coats in accordance with SABS1461/SANS 121 B. Hot dip galvanise to min 100 µm The Galvaniser must be a member of the hot dip Galvanisers Association of southern Africa and the Galvanizer to be informed if the product will be painted. <u>STEEL COLUMNS, BEAMS, POSTS, ETC.</u> <u>ROOF STRUCTURE BLOCK A - LOWER ROOF</u> <u>Welded beams in single lengths with flat section gusset, top, bearer and connection plates:</u>				
1	354 x 171 x 51kg/m I-Section beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 8m above ground level	t	8.04		
2	254 x 146 x 31kg/m I-Section beam in tapered roof truss ends including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 8m above ground level	t	0.81		
3	70 x 70 x 5mm L-Section cross bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 8m above ground level	t	0.86		
4	60 x 60 x 5mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 8m above ground level	t	0.25		
	<u>ROOF STRUCTURE BLOCK A - UPPER ROOF</u> <u>Welded beams in single lengths with flat section gusset, top, bearer and connection plates:</u>				
5	457 x 191 x 67kg/m I-Section cross beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 10m above ground level	t	1.72		
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6	305 x 165 x 40kg/m I-Section cross beam including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 10m above ground level	t	0.99		
7	203 x 133 x 25kg/m I-Section roof beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 10m above ground level	t	1.55		
8	70 x 70 x 6mm L-Section cross bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 8m above ground level	t	0.28		
9	60 x 60 x 5mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 8m above ground level	t	0.13		
<u>ROOF STRUCTURE TO ENTRANCE OF BLOCK C</u>					
<u>Welded beams including, gusset and connection plates and L-section cleats bolted to concrete</u>					
10	200 x 200 x 6mm Square hollow section column including base plates, connectors, etc.	t	2.15		
11	203 x 133 x 25kg/m I-Section beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 6m above ground level	t	1.23		
12	254 x 146 x 31kg/m I-Section beam including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 6m above ground level	t	0.84		
13	305 x 165 x 40kg/m I-Section beam including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 6m above ground level	t	1.09		
<u>ROOF STRUCTURE BLOCK G</u>					
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<u>Welded beams including, gusset and connection plates and L-section cleats bolted to concrete</u>					
14	800 x 210 x 92kg/m Castellated beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 6m above ground level	t	9.70		
15	534 x 171 x 45kg/m Castellated beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 6m above ground level	t	8.10		
16	305 x 102 x 25kg/m I-Section beam including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 6m above ground level	t	0.16		
<u>EXTERNAL AREA ROOF BLOCK G</u>					
<u>Welded beams including, gusset and connection plates and L-section cleats bolted to concrete</u>					
17	200 x 100 x 4mm Square hollow section including fixing plates, connectors, etc. hoisted and fixed in position approximately 4m above ground level	t	5.60		
18	193 x 6mm Diameter circular hollow section bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.25		
<u>ROOF STRUCTURE TO ENTRANCE OF BLOCK G</u>					
<u>Welded beams including, gusset and connection plates and L-section cleats bolted to concrete</u>					
19	203 x 133 x 25kg/m I-Section beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 6m above ground level	t	1.43		
20	200 x 200 x 4,5mm Square hollow section column including base plates, connectors, etc.	t	3.48		
<u>ROOF STRUCTURE BLOCK H</u>					
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	<u>Welded beams in single lengths with flat section gusset, top, bearer and connection plates:</u>				
21	365 x 171 x 45kg/m I-Section beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 4m above ground level	t	3.96		
22	254 x 146 x 31kg/m I-Section beam in tapered roof truss ends including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 8m above ground level	t	0.46		
	<u>ROOF STRUCTURE BLOCK M</u>				
	<u>Welded beams in single lengths with flat section gusset, top, bearer and connection plates:</u>				
23	IPE 200 beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 6m above ground level	t	1.68		
24	IPE 160 beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 4m above ground level	t	0.53		
25	305 x 165 x 40kg/m I-Section roof beam including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 6m above ground level	t	0.44		
26	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.11		
27	60 x 60 x 4mm L-Section cross bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.54		
28	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.03		
	<u>ROOF STRUCTURE BLOCK N</u>				
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<u>Welded beams in single lengths with flat section gusset, top, bearer and connection plates:</u>					
29	305 x 165 x 40kg/m I-Section roof beam including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 10m above ground level	t	0.18		
30	203 x 133 x 25kg/m I-Section roof beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 6m above ground level	t	0.54		
31	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.03		
32	60 x 60 x 4mm L-Section cross bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.17		
33	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.01		
<u>STEEL TRUSSES ETC</u>					
<u>ROOF STRUCTURE BLOCK B</u>					
<u>The following in 8 trusses overall size 19,850m long x 1,853m high</u>					
<u>Welded trusses including, gusset and connection plates and L-section cleats bolted to concrete</u>					
34	IPE 200 beam in tapered roof truss ends including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.83		
35	100 x 100 x 10mm Square hollow section top cord including fixing plates, connectors, etc. hoisted and fixed in position approximately 4m above ground level	t	2.46		
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36	90 x 90 x 8mm L-Section bottom cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.79		
37	80 x 80 x 6mm L-Section verticals members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.37		
38	70 x 70 x 6mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	2.28		
39	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.20		
40	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.84		
<u>The following in 4 trusses overall size 11,131m long x 0,965m high</u>					
<u>Welded trusses including, gusset and connection plates and L-section cleats bolted to concrete</u>					
41	IPE 200 beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 4m above ground level	t	0.35		
42	80 x 80 x 6mm L-Section top cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.34		
43	70 x 70 x 6mm L-Section bottom cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.37		
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44	70 x 70 x 6mm L-Section cross bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.02		
45	60 x 60 x 6mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.49		
46	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.27		
47	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.09		
<u>ROOF STRUCTURE BLOCK C</u>					
<u>The following in 1 truss overall size 16,745m long x 1,50m high and 2 trusses overall size 15,339m long x 1,34m high</u>					
<u>Welded trusses including, gusset and connection plates and L-section cleats bolted to concrete</u>					
48	365 x 171 x 45kg/m I-Section roof beam including fixing plates, connectors, etc. hoisted and fixed in position approximately 4m above ground level	t	2.46		
49	IPE 200 beam in tapered roof truss ends including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	16.05		
50	90 x 90 x 6mm L-Section top cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.73		
51	80 x 80 x 6mm L-Section top and bottom cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.00		
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52	70 x 70 x 6mm L-Section bottom cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.31		
53	70 x 70 x 6mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.67		
54	70 x 70 x 6mm L-Section cross bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.19		
55	60 x 60 x 6mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.57		
56	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.23		
57	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.45		
<u>ROOF STRUCTURE BLOCK D</u>					
<u>The following in 3 trusses overall size 21,05m long x 1,99m high</u>					
<u>Welded trusses including, gusset and connection plates and L-section cleats bolted to concrete</u>					
58	IPE 200 beam in tapered roof truss ends including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.44		
59	120 x 120 x 12mm L-Section top cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.43		
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60	100 x 100 x 8mm L-section bottom cord including fixing plates, connectors, etc. hoisted and fixed in position approximately 4m above ground level	t	0.81		
61	70 x 70 x 8mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.33		
62	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.09		
63	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.25		
<u>The following in 5 trusses overall size 18,70m long x 1,70m high</u>					
<u>Welded trusses including, gusset and connection plates and L-section cleats bolted to concrete</u>					
64	100 x 100 x 10mm L-Section top cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.47		
65	90 x 90 x 8mm L-Section bottom cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.07		
66	70 x 70 x 6mm L-Section cross bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.08		
67	70 x 70 x 7mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.71		
68	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.07		
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69	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.19		
<u>ROOF STRUCTURE BLOCK E</u>					
<u>The following in 10 trusses overall size 22,18m long x 2,18m high</u>					
<u>Welded trusses including, gusset and connection plates and L-section cleats bolted to concrete</u>					
70	IPE 200 beam in tapered roof truss ends including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.52		
71	120 x 120 x 12mm L-Section top cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	5.02		
72	100 x 100 x 8mm L-section bottom cord including fixing plates, connectors, etc. hoisted and fixed in position approximately 4m above ground level	t	2.84		
73	70 x 70 x 8mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	4.53		
74	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.11		
75	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.04		
<u>The following in 1 truss overall size 16,96m long x 2,18m high</u>					
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<u>Welded trusses including, gusset and connection plates and L-section cleats bolted to concrete</u>					
76	100 x 100 x 8mm L-Section top cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.22		
77	90 x 90 x 8mm L-Section bottom cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.19		
78	70 x 70 x 6mm L-Section cross bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.10		
79	70 x 70 x 8mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.39		
80	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.11		
81	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.13		
<u>ROOF STRUCTURE BLOCK F</u>					
<u>The following in 6 trusses overall size 21,07m long x 2,13m high</u>					
<u>Welded trusses including, gusset and connection plates and L-section cleats bolted to concrete</u>					
82	IPE 200 beam in tapered roof truss ends including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.84		
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83	120 x 120 x 12mm L-Section top cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	2.87		
84	100 x 100 x 8mm L-Section top and bottom cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.62		
85	70 x 70 x 8mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	2.64		
86	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.13		
87	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.87		
<u>The following in 9 trusses overall size 17,366m long x 1,960m high</u>					
<u>Welded trusses including, gusset and connection plates and L-section cleats bolted to concrete</u>					
88	100 x 100 x 8mm L-Section bottom cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	2.00		
89	90 x 90 x 8mm L-Section top cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.79		
90	70 x 70 x 6mm L-Section cross bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.85		
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91	70 x 70 x 8mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	3.04		
92	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.10		
93	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.09		
<u>ROOF STRUCTURE BLOCK G</u>					
<u>The following in 1 truss overall size 25,20m long x 1,50m high</u>					
<u>Welded trusses including, gusset and connection plates and L-section cleats bolted to concrete</u>					
94	254 x 146 x 31kg/m I section top and bottom cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 6m above ground level	t	1.62		
95	70 x 70 x 8mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.53		
96	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.28		
<u>ROOF STRUCTURE BLOCK H</u>					
<u>The following in 1 truss overall size 15,07m long x 1,50m high</u>					
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<u>Welded trusses including, gusset and connection plates and L-section cleats bolted to concrete</u>					
97	254 x 146 x 31kg/m I-Section beam in tapered roof truss ends including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 8m above ground level	t	0.75		
98	80 x 80 x 8mm L-Section top cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.53		
99	70 x 70 x 6mm L-Section cross bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.90		
100	70 x 70 x 8mm L-Section bottom cord including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.32		
101	60 x 60 x 6mm L-Section verticals and diagonal members including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	1.57		
102	60 x 60 x 6mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.16		
103	60 x 60 x 4mm L-Section fly bracing including fixing plates, connectors, bolts, etc. hoisted and fixed in position approximately 4m above ground level	t	0.87		
<u>PURLINS, GIRTS, BRACING, ETC</u>					
<u>Purlins and girts bolted to steel</u>					
104	125 x 50 x 20 x 2,0 mm Cold formed lipped channel section purlins	t	3.84		
105	125 x 65 x 20 x 2,0 mm Cold formed lipped channel section purlins	t	34.49		
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106	125 x 65 x 20 x 2,0 mm Cold formed lipped channel section purlins circular on plan	t	0.28			
107	150 x 65 x 20 x 2,0mm Cold formed lipped channel section purlins	t	1.88			
108	150 x 65 x 20 x 2,0mm Cold formed lipped channel section purlins circular on plan	t	0.12			
109	150 x 75 x 20 x 2,0 mm Cold formed lipped channel section purlins	t	1.07			
110	175 x 75 x 20 x 2,0 mm Cold formed lipped channel section purlins	t	1.17			
111	175 x 75 x 20 x 2,5mm Cold formed lipped channel section purlins	t	0.27			
112	175 x 75 x 20 x 2,5mm Cold formed lipped channel section purlins circular on plan	t	0.14			
113	200 x 75 x 20 x 2,5mm Cold formed lipped channel section purlins	t	0.30			
114	200 x 200 x 4mm Square hollow section purlins	t	0.91			
115	200 x 200 x 4mm Square hollow section purlins circular on plan	t	0.87			
	<u>3mm Thick hot dipped galvanised sheet iron eaves gutters and accessories</u>					
116	3mm Thick galvanised steel gutter 823mm girth 5 times bent fixed and including brackets to falls to steel purlins	m	40			
117	3mm Thick galvanised steel gutter 832mm girth 5 times bent circular on plan fixed and including brackets to falls to steel purlins	m	26			
118	Extra for stopped end	No	2			
119	Extra for 100mm diameter outlet for downpipe	No	14			
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120	Extra over 200 x 100mm square hollow section steel column used as rainwater downpipe to form outlet inside column, outlet consisting of plate size 211mm long x 100mm wide welded raking inside column and forming opening on one side of column size 200mm high x 100mm wide	No	14		
	<u>STEEL COLUMNS, BEAMS, ETC.</u>				
	<u>Welded columns with and including flat section base, top, bearer, gusset and connection plates etc.</u>				
121	75 x 75 x 5mm Square hollow section column including base plates, connectors, etc.	t	0.06		
122	75 x 75 x 6mm Square hollow section column including base plates, connectors, etc.	t	0.06		
123	100 x 100 x 4mm Square hollow section column including base plates, connectors, etc.	t	0.46		
124	100 x 100 x 4,5mm Square hollow section column including base plates, connectors, etc.	t	0.50		
125	200 x 200 x 4,5mm Square hollow section column including base plates, connectors, etc. (No. 3)	t	2.48		
126	120 x 120 x 4mm Square hollow section column including base plates, connectors, etc.	t	0.09		
127	120 x 120 x 6mm Square hollow section column including base plates, connectors, etc.	t	0.16		
128	120 x 120 x 10mm L section bracing to side of beams including base plates, connectors, etc.	t	1.08		
129	150 x 150 x 4mm Square hollow section column including base plates, connectors, etc.	t	2.20		
130	150 x 150 x 5mm Square hollow section column including base plates, connectors, etc.	t	0.90		
131	175 x 175 x 4mm Square hollow section column including base plates, connectors, etc.	t	0.91		
	Carried to Collection			R	
	Section No. 2				
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	Structural Steelwork				

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132	200 x 200 x 4,5mm L section bracing to side of beams including base plates, connectors, etc.	†	0.81		
133	152 x 152 x 23kg/m H section column including base plates, connectors, etc.	†	0.17		
134	Composite column consisting of 406 x 6,0mm circular hollow section 2825mm long bottom section, 273 x 6,0mm circular hollow section 2180mm long middle section and 193 x 6,6mm circular hollow section 1170mm long top section filled with 30MPA concrete (elsewhere) no. 3	†	0.91		
Carried to Collection				R	
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Section No. 2			
Bill No. 10			
Structural Steelwork			
<u>COLLECTION</u>			
	Page No		Amount
Total Brought Forward from Page No.	266		
	267		
	268		
	269		
	270		
	271		
	272		
	273		
	274		
	275		
	276		
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	278		
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	281		
	282		
	283		
	284		
Carried Forward to Summary of Section No. 2		R	
Section No. 2			
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Structural Steelwork			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u> <u>BILL NO. 10</u> <u>METALWORK</u> <u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u> <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 as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described <u>SUNDRY STAINLESS STEELWORK TYPE 304 (18/8)</u> <u>Bumper rails</u> 1 Purpose made 50mm diameter stainless steel bumper rail x 1,5mm thick with 12mm diameter stainless steel rod fixed into wall and protruding 55mm with 50mm diameter dome wall flange (BUM009) & (BUM012) m 107 <u>STEEL HANDRAILS, BALUSTRADES, ETC.</u>			
	Carried to Collection		R	
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	<u>The following in mild steel electroplated finish balustrade and hand railing. Vertical posts epoxy grouted 100mm deep into concrete slab including all necessary core drilling, epoxy grouting, plastic spacer plugs, mild steel cover plates, etc.; hoisting and fixing in position complete, all to comply with load requirement for Building Occupation Category and route type as required in SANS 10160</u>				
2	75 x 50mm Mild steel rectangular section continuous raking handrails welded to 12mm diameter mild steel rod and ends epoxy grouted 150mm deep into brick or concrete walls, with and including 60mm diameter x 1.5mm thick x 10mm high mild steel dome wall flange fixed to concrete or brick walls	m	49		
3	Extra over for closed end	No	18		
4	Extra over for ramp or knee	No	14		
5	Extra over for bend	No	8		
6	1100mm High horizontal balustrade comprising 50 x 35mm mild steel rectangular stanchions with 38 x 38mm mild steel square stanchion pin at 1500mm centres and epoxy grouted 100mm deep into concrete slab, 75 x 50mm mild steel rectangular section top rail with 910mm high flat Clearvu panel framed with 40 x 40mm mild steel angle section fixed to stanchions, 5mm cover plate, connector plates, rawl bolts, nuts, spacers, etc. As per attached drawings HDG 040-001, HDG 040-003	m	63		
7	1100mm High horizontal balustrade raking comprising 50 x 35mm mild steel rectangular stanchions with 38 x 38mm mild steel square stanchion pin at 1500mm centres and epoxy grouted 100mm deep into concrete slab, 75 x 50mm mild steel rectangular section top rail with 910mm high flat Clearvu panel framed with 40 x 40mm mild steel angle section fixed to stanchions, 5mm cover plate, connector plates, rawl bolts, nuts, spacers, etc. As per attached drawings HDG 040-001, HDG 040-003	m	20		
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8	Extra over for closed end	No	22		
9	Extra over for ramp or knee	No	12		
<u>PRESSED STEEL DOOR FRAMES</u> <u>Galvanised mild steel frames by Quirk Agencies</u> <u>(043-726 3994)</u> <u>1.6mm Standard galvanised mild steel door frames</u> <u>with double rebate suitable for 110mm walls and to</u> <u>receive hinges (elsewhere measured)</u>					
10	Frame for door, size 813 x 2032mm high Dr_BZ	No	1		
11	Frame for one and a half door, size 1350 x 2032mm high Dr_AA	No	1		
12	Frame for double door, size 986 x 1738mm high Dr_D	No	27		
<u>1.6mm Standard galvanised mild steel door frames</u> <u>with double rebate suitable for 220mm walls and to</u> <u>receive hinges (elsewhere measured)</u>					
13	Frame for door, size 965 x 2032mm high Dr_Z	No	5		
14	Frame for one and a half door, size 1350 x 2032mm high Dr_AA	No	1		
15	Frame for double door, size 986 x 1738mm high Dr_D	No	9		
16	Frame for double door, size 1286 x 2032mm high Dr_CJ	No	1		
17	Frame for double door, size 1295 x 2032mm high Dr_CA	No	14		
18	Frame for double door, size 1486 x 2032mm high Dr_EJ	No	1		
19	Frame for double door, size 1511 x 2032mm high Dr_DB	No	16		
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	<u>1.6mm Purpose made chamfered galvanised mild steel frame with mitred top corners, jointed seams welded supplied and corner stiffeners in the reveals on the inside and to receive hinges (elsewhere measured) suitable for 110mm walls</u>				
20	Frame for door, size 813 x 1738mm high Dr_EP	No	1		
21	Frame for door, size 813 x 2032mm high Dr_V	No	60		
22	Frame for door, size 965 x 2032mm high Dr_A	No	10		
23	Frame for door, size 965 x 2032mm high Dr_Z	No	1		
	<u>1.6mm Purpose made chamfered galvanised mild steel frame with mitred top corners, jointed seams welded supplied and corner stiffeners in the reveals on the inside and to receive hinges (elsewhere measured) suitable for 220mm walls</u>				
24	Frame for door, size 813 x 2032mm high Dr_V	No	30		
25	Frame for door, size 900 x 2032mm high Dr_B	No	5		
26	Frame for door, size 965 x 2032mm high Dr_A	No	9		
27	Frame for door, size 965 x 2032mm high Dr_Z	No	6		
	<u>2mm Purpose made chamfered galvanised mild steel frame with mitred top corners, jointed seams welded supplied and corner stiffeners in the reveals on the inside and to receive hinges (elsewhere measured) suitable for 110mm walls</u>				
28	Frame for door, size 1000 x 2065mm high Dr_X	No	1		
	<u>2mm Purpose made chamfered galvanised mild steel frame with mitred top corners, jointed seams welded supplied and corner stiffeners in the reveals on the inside and to receive hinges (elsewhere measured) suitable for 220mm walls</u>				
29	Frame for door, size 1000 x 2065mm high Dr_X	No	9		
	<u>RECORDS ROOM & STRONG ROOM DOORS</u>				
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	<u>Door and frame supplied by Mutual Safes (012-803 6051)</u>				
	<u>Custom made Mutual Austen Safes DS1 records room door and frame with 7-lever security keylock finished in rust proof undercoat</u>				
30	Records room frame and door, door size 900 x 1860mm high Dr_G	No	3		
	<u>Custom made Mutual Austen Safes DS50/2SABS Category 2 (light Duty) strong room door and frame with 7-lever security keylock, finished in rust proof undercoat</u>				
31	Strong room frame and door, door size 900 x 1860mm high Dr_G2	No	2		
	<u>STEEL ROLLER SHUTTERS ETC</u>				
	<u>Approved epoxy powder coated roller shutters enclosed in 1,6mm thick sheet iron cover box fixed to brickwork or concrete</u>				
32	Roll Up Serranda Series 2000 or equal and approved, polyester powder coated (Interpon D1025 matt finish powder coating) galvanised mild steel push-up 75 x 1,0mm thick endlocked slatted curtain roller shutter for opening 1800 x 2125mm high with standard bottom rail, 75mm wide guides, extruded aluminium T-bar with rubber seal, powder coated ancillary components including 4,5mm thick end plates, guide rails, slide bolt and guide lock, canopy cover and purpose made polyester powder coated frame fixed to concrete jambs and structural steel beam RSPU001	No	2		
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33	Roll Up Serranda Series 2000 or equal and approved, polyester powder coated (Interpon D1025 matt finish powder coating) galvanised mild steel push-up 75 x 1,0mm thick endlocked slatted curtain roller shutter for opening 3000 x 2125mm high with standard bottom rail, 75mm wide guides, extruded aluminium T-bar with rubber seal, powder coated ancillary components including 4,5mm thick end plates, guide rails, slide bolt and guide lock, canopy cover and purpose made polyester powder coated frame fixed to concrete jambs and structural steel beam RSPU002	No	3		
34	Roll Up Serranda Series 2000 or equal and approved, polyester powder coated (Interpon D1025 matt finish powder coating) galvanised mild steel crank operated 75 x 1,0mm thick endlocked slatted curtain roller shutter for opening 2500 x 3315mm high with overhead box 285mm high, 75mm wide guides, extruded aluminium T-bar with rubber seal, powder coated ancillary components including 4,5mm thick end plates, guide rails, etc., slide bolt and guide lock, canopy cover and purpose made polyester powder coated frame fixed to concrete jambs and structural steel beam RSCO001	No	1		
35	Roll Up Serranda Series 2000 or equal and approved, polyester powder coated (Interpon D1025 matt finish powder coating) galvanised mild steel crank operated 75 x 1,0mm thick end locked slatted curtain roller shutter for opening 2500 x 3315mm high with overhead box 285mm high, standard bottom rail with inward opening wicket gate size 750 x 2125mm high, 75mm wide guides, extruded aluminium T-bar with rubber seal, powder coated ancillary components including 4,5mm thick end plates, guide rails, etc., slide bolt and guide lock, canopy cover and purpose made polyester powder coated frame fixed to concrete jambs and structural steel beam RSCO-W001	No	5		
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36	Roll Up Serranda Series 2000 or equal and approved, polyester powder coated (Interpon D1025 matt finish powder coating) galvanised mild steel electrically operated 75 x 1,0mm thick endlocked slatted curtain roller shutter with lockable push button control for opening 3000 x 4080mm high with standard bottom rail, 75mm wide guides, extruded aluminium T-bar with rubber seal, powder coated ancillary components including 4,5mm thick end plates, guide rails, no lock, canopy cover and purpose made polyester powder coated frame fixed to concrete jambs and structural steel beam, the shutter controlled by security mounted key switch 3-phase, to be operated with and including a motor connected to 3-phase power supply as per manufacturers specifications RSEO001	No	2		
	<u>TURNSTILES</u>				
37	Turnstar Prestige Trident single waist height mechanical uni-directional turnstile overall by Turnstar Systems (011 786 1633) or equal and approved size 870 x 615 x 1090mm high 304-grade brushed stainless steel cabinet with Rotalok® rotation locking mechanism or equal and approved and Rotarun® perpetual base bearing or equal and approved, bolted to concrete base with four M12 x 75mm countersunk anchor bolts	No	16		
38	Titan 4 single 4 arm high security turnstile by Turnstar Systems (011 786 1633) or equal and approved single full height mechanical uni-directional revolving turnstile, overall size 1430 x 2250mm high, hot dipped galvanised mild steel finish with 50mm diameter tube arm and "Rotalok" or equal and approved perpetual base bearing, with and including 7No. M12 x 75mm bolts fixed to concrete as per manufacturers specification	No	1		
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39	Automatic flow system Seedgate entrance and paraplegic gate by Turnstar Systems (011 786 1633) or equal and approved, gate for paraplegic 900mm wide, pedestal of modern and sleek appearance manufactured of stainless steel , pedestal to panel of 10mm thick black toughened glass 1000mm high with logo on front of pedestals indicating allowed direction of passage flow, sensor with cabinet assure safety and control passage flow, audible alarm sound when transgression occurs including planetary geared brushless motor, PLC controlled and all necessary to provide quiet, fast and safe operation installed strictly to manufacturers specification	No	3		
40	Velocity Integrated Articulated Automatic Industrial Vehicle Barrier with Swiftdrive and Velocity Raptor Tyre Spike by Turnstar Systems (011 786 1633) or equal and approved, barrier arm weight 1,45kg/m barrier arm 3m long, manual over ride secure internal easy-pull lever arm, collision detection, dual channel safety loop detector and input for any external sensor safety control, integrates with all access control, ticketing, and time attendance systems, triggered through a normally open dry contact, free exit loop feature built-in standard, open and closed relay outputs, with 316 grade stainless steel cabinet and barrier arm accessories including articulated arm kit (folding arm kit) for low ceilings (fitted under the barrier arm for maximum height clearance, car and truck goosenecks with optional cowls, all installed strictly to manufacturers specification	No	2		
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<u>ELECTROPLATED AND EPOXY COATED CAT LADDERS</u>					
41	Welded cat ladder 500mm wide formed of 38mm diameter stringer, 4785mm long on one side with circular bend across top edge with internal radius of 270mm and 1131mm long on other side, with 16mm diameter rebar x 500mm wide pipe rungs, with longitudinal strips on top to ensure slip free surface, drilled and welded approximately 300mm centres to stringers, with and including 700mm diameter circular shaped cage formed of 3No. x 25 x 5mm mild steel flat vertical bars 2785mm long, 25 x 5mm mild steel flat horizontal circular bars welded to top and sides of cat ladder at maximum 700mm centres, including 150 x 50 x 5mm mild steel base plate connection bolted to brickwork or concrete including all necessary core drilling, epoxy grouting, chemical anchor bolts, holding down bolts, etc.	No	3		
<u>SUNDRY GALVANIZED STEELWORK</u>					
<u>Bearers to brick linings, lintels, etc.</u>					
42	25mm x 25mm x 3mm Thick angle section cornice riveted to metal ceiling and bolted to brickwork with and including M12 x 100mm long chemical anchor bolts at 300mm centres	m	927		
43	50 x 50 x 5 L section galvanised mild steel angle with dove tail lugs at 300mm centres cast into concrete slab	m	57		
44	100 x 100 x 10mm Angle section bearers bolted to concrete	kg	102		
<u>The following mild steel elements in roof over hang, fascia, barge and apex flashing fixing details</u>					
45	50 x 8mm Thick flat bar fixed to under side of purlins	m	3,741		
46	50 x 5mm Thick flat bar 160mm long welded to flat bar at 500mm centres	No	3,724		
47	80 x 80 x 6mm Angle section welded to beam	m	3,327		
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48	80 x 80 x 6mm Angle section welded to beam circular on plan	m	302			
49	80 x 80 x 6mm Angle section bracket 100mm long welded to steel beam	No	2,852			
50	40 x 40 x 0,8mm Galvanised bracket to fix barge flashing to roof sheeting	m	489			
51	100 x 100mm Galvanised mild steel angle welded to inside of barge purlin to create a bracket for fixing to apex flashing plate	No	62			
52	100 x 100 x 6mm Galvanised mild steel plate welded to inside of apex flashing to be fixed to bracket of barge flashing	No	62			
<u>WASHING LINES</u>						
53	Allow PC amount of R50,000.00 for washing line		Item			
<u>SUNDRY ALUMINIUM WORKS</u>						
<u>Aluminium Angle</u>						
54	20 x 80mm Unequal Aluminium angle mechanically fixed with silicone to edge of concrete upstand beam at waterproofing edge	m	1,137			
55	20 x 80mm Unequal Aluminium angle mechanically fixed with silicone to edge of concrete upstand beam at waterproofing edge circular on plan	m	6			
<u>ALUMINIUM DECORATIVE ROOF COVERING</u>						
<u>3mm Aluminium panel with Maya Pattern by Tilt Screens (021 556 9229) or equal and approved in roof covering consisting of various panels to form part straight and circular roof fixed to aluminium and mild steel sub-frame as per suppliers details, installed strictly to manufacturers specifications as per attached drawing HDG-070-ALACP-P023</u>						
56	Sheeting laid to roof not exceeding 10 degrees	m2	355			
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57	Circular cutting	m	56		
	<u>ALUMINIUM SUN LOUVRES</u>				
	<u>3mm Aluminium panel with Maya Pattern by Tilt Screens (021 556 9229) or equal and approved fixed to aluminium and mild steel sub-frame as per suppliers details, installed strictly to manufacturers specifications</u>				
58	Framed sun louvre panel overall size 4,76m wide x 3,91m high fixed to sub frame as per attached drawing HDG-070-ALACP-P018	No	1		
59	Framed sun louvre panel overall size 4,79m wide x 3,91m high fixed to sub frame as per attached drawing HDG-070-ALACP-P017	No	1		
60	Framed sun louvre panel overall size 7,66m wide x 3,40m high fixed to sub frame as per attached drawing HDG-070-ALACP-P022	No	1		
61	Framed sun louvre panel overall size 7,69m wide x 3,40m high fixed to sub frame as per attached drawing HDG-070-ALACP-P020	No	1		
62	Framed sun louvre panel overall size 9,60m wide x 7,75m high fixed to sub frame as per attached drawing HDG-070-ALACP-P013	No	1		
63	Framed sun louvre panel overall size 12,98m wide x 2,98m high fixed to sub frame as per attached drawing HDG-070-ALACP-P021	No	1		
64	Framed sun louvre panel overall size 23,24m wide x 3,40m high fixed to sub frame as per attached drawing HDG-070-ALACP-P019	No	1		
65	L-shaped framed sun louvre panel overall size 3,87m long x 3,87m high consisting of one vertical panel size 2,87m long x 3,87m high and one vertical panel size 1,00m long x 3,87m high with door in panel size 1,105m wide x 2,17m high fixed to sub frame as per attached drawing HDG-070-ALACP-P011	No	1		
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66	L-shaped framed sun louvre panel overall size 4,09m long x 3,87m high consisting of one vertical panel size 3,09m long x 3,87m high and one vertical panel size 1,00m long x 3,87m high with door in panel size 1,05m wide x 2,17m high fixed to sub frame as per attached drawing HDG-070-ALACP-P010	No	1		
67	L-shaped framed sun louvre panel overall size 8,46m long x 1,15m wide consisting of one horizontal panel size 8,46m long x 1,15m wide and one vertical panel size 1,15m wide x 3,16m high fixed to sub frame as per attached drawing HDG-070-ALACP-P004	No	1		
68	L-shaped framed sun louvre panel overall size 9,50m long x 1,15m wide consisting of one horizontal panel size 9,5m long x 1,15m wide and one vertical panel size 1,15m wide x 3,16m high fixed to sub frame as per attached drawing HDG-070-ALACP-P003	No	1		
69	L-shaped framed sun louvre panel overall size 16,45m long x 1,15m wide consisting of one horizontal panel size 16,45m long x 1,15m wide and one vertical panel size 1,15m wide x 3,16m high fixed to sub frame as per attached drawing HDG-070-ALACP-P005	No	1		
70	L-shaped framed sun louvre panel overall size 7,10m long x 1,87m high consisting of one vertical panels size 7,10m long x 1,87m high and one vertical panels size 0,51m long x 1,87m high fixed to sub frame as per attached drawing HDG-070-ALACP-P006	No	1		
71	L-shaped framed sun louvre panel overall size 12,87m long x 1,15m wide consisting of one horizontal panels size 6,64m long x 1,15m wide and one vertical panels size 5,03m long x 1,15m wide fixed to sub frame as per attached drawing HDG-070-ALACP-P008	No	1		
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72	L-shaped framed sun louvre panel overall size 23,15m long x 1,15m wide consisting of one horizontal panels size 12,82m long x 1,15m wide and one vertical panels size 10,33m long x 1,15m wide fixed to sub frame as per attached drawing HDG-070-ALACP-P007	No	1		
73	U-shaped framed sun louvre panel overall size 16,31m long x 2,98m high consisting of one horizontal panel size 16,31m long x 2,98m high and two vertical panels each size 0,48m long x 2,98m high fixed to sub frame as per attached drawing HDG-070-ALACP-P009	No	1		
74	Box framed sun louvre panel overall size 3,21m long x 1,15m wide consisting of two horizontal panels each size 3,21m long x 1,15m wide and two vertical panels each size 1,15m wide x 7,90m high fixed to sub frame as per attached drawing HDG-070-ALACP-P015	No	1		
75	Box framed sun louvre panel overall size 10,57m long x 1,15m wide consisting of two horizontal panels each size 10,57m long x 1,15m wide and two vertical panels each size 1,15m wide x 4,53m high fixed to sub frame as per attached drawing HDG-070-ALACP-P012	No	1		
76	Box framed sun louvre panel overall size 17,39m long x 1,30m wide consisting of two horizontal panels each size 17,39m long x 1,30m wide and two vertical panels each size 1,30m wide x 3,39m high fixed to sub frame as per attached drawing HDG-070-ALACP-P001	No	1		
77	Box framed sun louvre panel overall size 26,19m long x 1,30m wide consisting of two horizontal panels each size 26,19m long x 1,30m wide and two vertical panels each size 1,30m wide x 3,39m high fixed to sub frame as per attached drawing HDG-070-ALACP-P002	No	1		
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78	Box L-shaped framed sun louvre panel overall size 21,62m long x 1,15m wide consisting of two horizontal panels each size 16,18m long x 1,15m wide, two vertical panels each size 4,53m high x 1,15m wide and two horizontal panels each size 4,23m long x 1,15m wide fixed to sub frame as per attached drawing HDG-070-ALACP-P016	No	1		
79	Box framed sun louvre panel overall size 17,87m long x 1,15m wide x 7,80m high consisting of one horizontal panel size 17,87m long x 1,15m wide, one vertical panel size 4,53m high x 1,15m wide, one horizontal panel size 13,14m long x 1,15m wide, one vertical panel size 5,37m high x 1,15m wide, one horizontal panel size 4,73m long x 1,15m wide and one vertical panel size 7,90m high x 1,15m wide fixed to sub frame as per attached drawing HDG-070-ALACP-P014	No	1		
<u>ALUMINIUM FAÇADE CLADDING</u>					
<u>Hunter Douglas Aluminium Façade Type 200F cladding of 200m wide panels or equal and approved, clamped onto stringers and screw clamps creating a light weight cladding system made of stove enamelled aluminium 0,7mm thick with Luxacote paint finish (30 micron), panel lengths to a maximum of 6000mm with and including stringers, screw clamps 200F, panel splices, sealing rubbers, horizontal joint profiles, U-brackets, outside corner profiles, washer sets and additional stringer profiles installed strictly to manufacturers specifications</u>					
80	Cladding panels	m2	1,019		
81	Cladding panels circular on plan	m2	99		
82	Cladding panels in ceilings	m2	437		
<u>Lanbdaboard</u>					
83	60mm Thick Lambdaboard fixed to steel structure to receive aluminium façade cladding (elsewhere measured)	m2	322		
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<u>ALUMINIUM WINDOWS, DOORS, ETC</u>				
Doors and windows shall comply with AAAMSA design criteria				
Glazing shall comply with SAGGA regulations. Glass shall be laminated safety glass SIG units with 12mm Air Gap manufactured according to the highest specification including AAAMSA, SAGGA, SABS 1191 and SABS 1263 part 1 and 3. All units are subjected to a Delta T-test and IG dew point test. Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings				
Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed				
For purpose made windows and doors, refer to drawings annexed to these bills of quantities				
The following certificates shall be provided prior to commencement of site work:				
1 A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product				
2 A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively				
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	3	A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process				
	4	A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked				
	5	A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for a period of not less than five years				
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	<u>Purpose made Aluminium frame as by Wispeco (011 389 0000) to suit required site specific wind loads.</u> <u>Aluminium Door Frame ALHSW (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete with wool piles all round to ensure dust proof seal, to suite hinges or overhead transom closer (elsewhere), with or without opening sections, with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u> <u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u> <u>Minimum 6mm NS PVB Laminated Safety Glass (SANS1263-1), for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved with tinted glazing</u>				
84	Door frame type HSW007 & HSW008 size 1050mm wide x 2125mm high	No	29		
85	Door frame type HSW003 overall size 1686mm wide x 2380mm high with glazed side light size 583mm wide x 2380mm high and opening for door size 1103mm wide x 2380mm high	No	2		
86	Door frame type HSW001 overall size 1720mm wide x 2380mm high with glazed side light size 600mm wide x 2380mm high and opening for door size 1120mm wide x 2380mm high	No	12		
87	Door frame type HSW002 overall size 1720mm wide x 2380mm high with glazed side light size 600mm wide x 2380mm high and opening for door size 1120mm wide x 2380mm high	No	15		
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88	Door frame type HSW004 overall size 4431mm wide x 2380mm high with four glazed side lights two size 820mm wide x 2380mm high and two size 835mm wide x 2380mm high and opening for door size 1120mm wide x 2380mm high	No	1		
89	Door frame type HSW005 overall size 4932mm wide x 2510mm high with four glazed side lights two size 972mm wide x 2510mm high and two size 942mm wide x 2510mm high and opening for door size 1120mm wide x 2510mm high	No	4		
90	Door frame type HSW006 overall size 8160mm wide x 2510mm high with five glazed side lights one size 1691mm wide x 2510mm high, two size 1661mm wide x 2510mm high, one size 1676mm wide x 2510mm high and one size 350mm wide x 2510mm high and opening for door size 1120mm wide x 2510mm high	No	2		
<u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u> <u>Aluminium Curtain Wall Frame AL/CWP (Facade 60, with 160mm mullions, pending detail design by Specialist) in configuration as described, complete with heavy-duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u> <u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u> <u>Minimum 24.76mm (/12mmAir Gap/6.38mm) NS PVB Laminated Safety Glass, for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u>					
91	Curtain wall panel type AL/CWP003 size 600mm wide x 6210mm high	No	1		
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92	Curtain wall panel type AL/CWP004 size 2000mm wide x 6120mm high	No	1			
93	Curtain wall panel type AL/CWP002 size 2868mm wide x 870mm high	No	1			
94	Curtain wall panel type AL/CWP008 size 3442mm wide x 2878mm high	No	1			
95	Curtain wall panel type AL/CWP001 size 3698mm wide x 870mm high	No	1			
96	Curtain wall panel type AL/CWP009 size 4409mm wide x 2878mm high	No	2			
97	Curtain wall panel type AL/CWP010 size 1000mm wide x 3825mm high	No	1			
98	Curtain wall panel type AL/CWP006 size 5410mm wide x 5270mm high with five top hung sashes	No	1			
99	Curtain wall panel type AL/CWP007 with horizontal section size 4267mm wide x 2880mm high and vertical sections 2892mm wide x 4210mm high	No	1			
100	Curtain wall panel type AL/CWP005 with horizontal section size 5410mm wide x 920mm high and vertical sections 1247mm wide x 3500mm high	No	1			
Carried to Collection					R	
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	<u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u> <u>Purpose made aluminium Curtain Wall Frame AL/CWPDa (Facade 60, with 160mm mullions, pending detail design by Specialist) in configuration as described, complete with heavy-duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u> <u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u> <u>Minimum 6mm NS PVB Laminated Safety Glass (SANS1263-1), for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u>				
101	Curtain wall with double sliding door type AL/CWSDa001 overall size 5961mm wide x 8461mm high including automatic sliding door size 1473mm wide x 2085mm high (sliding mechanism to be approved by Architect)	No	1		
102	Curtain wall with double sliding door type AL/CWSDa002 overall size 6782mm wide x 8516mm high including automatic sliding door size 1344mm wide x 2085mm high (sliding mechanism to be approved by Architect)	No	1		
103	Curtain wall with double sliding door type AL/CWSDa003 overall size 4897mm wide x 6979mm high including automatic sliding door size 1860mm wide x 2426mm high (sliding mechanism to be approved by Architect)	No	1		
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104	Curtain wall with double sliding door type AL/CWSDa004 overall size 54897mm wide x 6979mm high including automatic sliding door size 1860mm wide x 2085mm high (sliding mechanism to be approved by Architect)	No	1		
105	Curtain wall with double sliding door type AL/CWSDa001 overall size 5676mm wide x 7079mm high including automatic sliding door size 1860mm wide x 2085mm high (sliding mechanism to be approved by Architect)	No	1		
	<u>Purpose made frameless glazing panel windows, doors and shopfronts as by Hampson Interiors (031 569 5024) to suit required site specific wind loads.</u> <u>Purpose made but jointed glazing panels complete (AL/FGP-D) with aluminium rails, corrosion resistant hinges, glass connectors, PVC seats, etc in configurations as shown. Waterproof frame surround and joints with an approved soft seal.</u> <u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u> <u>Minimum 24.76mm (6.38mm/12mm Air gap/6.38mm) NS PVB Laminated Safety Glass (SANS1263-1), for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u>				
106	Frameless Glazing type AL/FGP-D002 size 1992mm wide x 2865mm high	No	1		
107	Frameless Glazing type AL/FGP-D003 size 2193mm wide x 2865mm high	No	1		
108	Frameless Glazing type AL/FGP-D005 size 4606mm wide x 2865mm high	No	1		
109	Frameless Glazing type AL/FGP-D013 size 4993mm wide x 850mm high	No	3		
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110	Frameless Glazing type AL/FGP-D014 size 5038mm wide x 850mm high	No	1			
111	Frameless Glazing type AL/FGP-D001 size 8051mm wide x 2865mm high	No	1			
112	Frameless Glazing type AL/FGP-D004 size 8289mm wide x 2865mm high	No	1			
113	Raking frameless Glazing type AL/FGP-D006 overall size 3961mm wide x 953mm high one side with 3 degree fall to 863mm high on other side	No	1			
114	Raking frameless Glazing type AL/FGP-D007 overall size 4746mm wide x 1057mm high one side with 3 degree fall to 957mm high on other side	No	1			
115	Raking frameless Glazing type AL/FGP-D008 overall size 3788mm wide x 1141mm high one side with 3 degree fall to 1062mm high on other side	No	1			
116	Raking frameless Glazing type AL/FGP-D015 overall size 5370mm wide x 1317mm high one side with 3 degree fall to 1172mm high on other side	No	1			
117	Raking frameless Glazing type AL/FGP-D016 overall size 5364mm wide x 1467mm high one side with 3 degree fall to 1295mm high on other side	No	1			
118	Raking frameless Glazing type AL/FGP-D017 overall size 5364mm wide x 1620mm high one side with 3 degree fall to 1474mm high on other side	No	1			
119	Raking frameless Glazing type AL/FGP-D012 overall size 5468mm wide x 1642mm high one side with 3 degree fall to 1526mm high on other side	No	1			
120	Raking frameless Glazing type AL/FGP-D010 overall size 5507mm wide x 1405mm high one side with 3 degree fall to 1289mm high on other side	No	1			
121	Raking frameless Glazing type AL/FGP-D011 overall size 5507mm wide x 1524mm high one side with 3 degree fall to 1408mm high on other side	No	1			
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122	Raking frameless Glazing type AL/FGP-D020 overall size 5557mm wide x 1754mm high one side with 3 degree fall to 1647mm high on other side	No	1		
123	Raking frameless Glazing type AL/FGP-D009 overall size 5589mm wide x 1287mm high one side with 3 degree fall to 1169mm high on other side	No	1		
124	Raking frameless Glazing type AL/FGP-D021 overall size 5769mm wide x 1820mm high one side with 3 degree fall to 1765mm high on other side	No	1		
125	Raking frameless Glazing type AL/FGP-D022 overall size 5805mm wide x 1759mm high one side with 3 degree fall to 1646mm high on other side	No	1		
126	Raking frameless Glazing type AL/FGP-D018 overall size 6804mm wide x 1004mm high one side with 3 degree fall to 850mm high on other side	No	1		
127	Raking frameless Glazing type AL/FGP-D019 overall size 6804mm wide x 1165mm high one side with 3 degree fall to 1010mm high on other side	No	1		
Carried to Collection Section No. 2 Bill No. 11 Metalwork				R	

	<u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u> <u>Purpose made aluminium door and frame (AL/HD) (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete wool piles all-round to ensure a dust proof seal to suite hinges or over head transom closer, complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u> <u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u> <u>Minimum 6mm NS PVB Laminated Safety Glass (SANS1263-1), for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u>				
128	Hinged double door type ALHD002 size 1650mm wide x 2125mm high	No	2		
129	Hinged double door type ALHD003 size 1650mm wide x 2125mm high	No	2		
130	Hinged double door type ALHD005 size 1646mm wide x 2125mm	No	2		
131	Hinged double door with side lights type ALHD001 overall size 3064mm wide x 2505mm high with double door size 1630mm wide x 2505mm high	No	1		
132	Hinged double door with top and side lights type ALHD004 overall size 4678mm wide x 3910mm high with two double doors each size 1650mm wide x 2125mm high	No	2		
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	<u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u> <u>Purpose made aluminium door and frame (AL/HD-D) (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete wool piles all-round to ensure a dust proof seal to suite hinges or over head transom closer, complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u> <u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u> <u>Minimum 24.76mm (/12mm Air Gap/6.38mm) NS PVB Laminated Safety Glass, for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u>				
133	Hinged double door type ALHD-D007 size 1650mm wide x 2125mm high	No	1		
134	Hinged double door type ALHD-D005 size 1948mm wide x 2125mm high	No	1		
135	Hinged double door with top light type ALHD-D009 overall size 1650mm wide x 3315mm high with double door size 1650mm wide x 2085mm high	No	1		
136	Hinged double door with top and side lights type ALHD-D006 overall size 2089mm wide x 3825mm high with double door size 1680mm wide x 2085mm high	No	1		
137	Hinged double door with top and side lights type ALHD-D002 overall size 4656mm wide x 3825mm high with two double doors each size 1680mm wide x 2085mm high	No	1		
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138	Hinged double door with top and side lights type ALHD-D001 overall size 4678mm wide x 3825mm high with two double doors each size 1680mm wide x 2085mm high	No	1		
139	Hinged double door with top and side lights type ALHD-D004 overall size 4678mm wide x 3910mm high with two double doors each size 1680mm wide x 2425mm high	No	1		
140	Hinged double door with top and side lights type ALHD-D003 overall size 4688mm wide x 3910mm high with two double doors each size 1680mm wide x 2425mm high	No	1		
141	Hinged double door with top light type ALHD-D008 top light size 4467mm wide x 1190mm high and double door size 1635mm wide x 2125mm high	No	1		
<u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u> <u>Purpose made aluminium door and frame (AL/HS) (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete wool piles all-round to ensure a dust proof seal to suite hinges or over head transom closer, complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u> <u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u> <u>Minimum 6mm NS PVB Laminated Safety Glass (SANS1263-1), for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u>					
142	Hinged single door type AL/HS006 size 1052mm wide x 2125mm high	No	1		
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143	Hinged single door type AL/HS001 size 1116mm wide x 2125mm high with one Hulabond or equal and approved panel in door leaf	No	1		
144	Hinged single door type AL/HS002 size 1116mm wide x 2125mm high	No	3		
145	Hinged single door with top light type AL/HS014 overall size 1000mm wide x 2465mm high with Hulabond or equal and approved panels in door leaf	No	2		
146	Hinged single door with top light type AL/HS015 overall size 1000mm wide x 2465mm high with single door size 1000mm wide x 2125mm high with one Hulabond or equal and approved panel in door leaf	No	2		
147	Hinged single door with top light type AL/HS016 overall size 1000mm wide x 2465mm high with single door size 1000mm wide x 2125mm high with one Hulabond or equal and approved panel in door leaf	No	1		
148	Hinged single door with top light type AL/HS003 overall size 1058mm wide x 3740mm wide with single door size 1058mm wide x 2125mm high	No	1		
149	Hinged single door with top and side lights type AL/HS011 overall size 1914mm wide x 3400mm high with single door size 985mm wide x 2085mm high	No	3		
150	Hinged single door with top and side lights type AL/HS010 overall size 1987mm wide x 3400mm high with single door size 985mm wide x 2085mm high	No	1		
151	Hinged single door with top and side lights type AL/HS008 overall size 2811mm wide x 3060mm high with single door size 985mm wide x 2085mm high	No	1		
152	Hinged single door with top and side lights type AL/HS012 overall size 2818mm wide x 3060mm high with single door size 985mm wide x 2085mm high	No	1		
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153	Hinged single door with top and side lights type AL/HS013 overall size 2811mm wide x 3060mm high with single door size 985mm wide x 2085mm high	No	1		
154	Hinged single door with top and side lights type AL/HS007 overall size 2811mm wide x 3400mm high with single door size 985mm wide x 2085mm high	No	3		
155	Hinged single door with top and side lights type AL/HS009 overall size 2818mm wide x 3400mm high with single door size 985mm wide x 2085mm high	No	2		
156	Hinged single door with top and side lights type AL/HS017 overall size 3382mm wide x 3060mm high with single door size 1005mm wide x 2085mm high	No	1		
157	Hinged single door with top and side lights type AL/HS005 overall size 3577mm wide x 2335mm wide with single door size 985mm wide x 2085mm high	No	1		
158	Hinged single door with top and side lights type AL/HS004 overall size 4011mm wide x 2335mm high with single door size 985mm wide x 2085mm high	No	1		
Carried to Collection					
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	<u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u> <u>Purpose made aluminium door and frame (AL/HS-D) (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete wool piles all-round to ensure a dust proof seal to suite hinges or over head transom closer, complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u> <u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u> <u>Minimum 24.76mm (/12mm Air Gap/6.38mm) NS PVB Laminated Safety Glass, for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u> <u>Hulabond panels by HBS Aluminium Systems installed to achieve watertight seal all to manufacturers specification. Installed with standard glazing method to suit window, shopfront or door.</u>				
159	Hinged single door type AL/HS-D001 size 1054mm wide x 2465mm high	No	1		
160	Hinged single door with top light type AL/HS-D003 overall size 1020mm wide x 3315mm high with single door size 1020mm wide x 2125mm high	No	1		
161	Hinged single door with top light type AL/HS-D007 overall size 1054mm wide x 2465mm high with single door size 1054mm wide x 2125mm high	No	1		
162	Hinged single door with top light type AL/HS-D008 overall size 1054mm wide x 2465mm high with single door size 1054mm wide x 2125mm high with Hulabond panels in door	No	1		
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163	Hinged single door with top light type AL/HS-D005 with top light size 2812mm wide x 1190mm high and single door size 1020mm wide x 2125mm high	No	1		
164	Hinged single door with top and side lights type AL/HS-D002 overall size 3900mm wide x 3825mm high with single door size 970mm wide x 2125mm high	No	1		
165	Hinged single door with top and side lights type AL/HS-D006 with horizontal top light size 3754mm wide x 1190mm high, vertical section size 1485mm wide x 1530mm high with top hung sash and single door size 1020mm wide x 2125mm high	No	1		
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	<u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u> <u>Purpose made aluminium sliding door and frame (AL/SDa-D) (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete wool piles all-round to ensure a dust proof seal to suite hinges or over head transom closer, complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u> <u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u> <u>Minimum 24.76mm (/12mm Air Gap/6.38mm) NS PVB Laminated Safety Glass, for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u> <u>Hulabond panels by HBS Aluminium Systems installed to achieve watertight seal all to manufacturers specification. Installed with standard glazing method to suit window, shopfront or door.</u>				
166	Sliding Double door with top and side lights type AL/SDa-001 overall size 3782mm wide x 3400mm high with double sliding door size 1730mm x 2125mm high and Hulabond panel size 3782mm wide x 130mm high	No	2		
167	Sliding Double door with top and side lights type AL/SDa-002 overall size 3994mm wide x 3825mm high with double sliding door size 1730mm x 2125mm high and Hulabond panel size 3994mm wide x 130mm high	No	1		
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168	Sliding Double door with top and side lights type AL/SDa-005 overall size 5034mm wide x 3825mm high with double sliding door size 1730mm x 2125mm high and Hulabond panel size 5034mm wide x 130mm high	No	1		
169	Sliding Double door with top and side lights type AL/SDa-006 overall size 5542mm wide x 3825mm high with double sliding door size 1730mm x 2125mm high and Hulabond panel size 5542mm wide x 130mm high	No	1		
170	Sliding Double door with top and side lights type AL/SDa-004 overall size 6051mm wide x 3825mm high with double sliding door size 1730mm x 2125mm high and Hulabond panel size 6051mm wide x 130mm high	No	1		
171	Sliding Double door with top and side lights type AL/SDa-003 overall size 6415mm wide x 33825mm high with double sliding door size 1730mm x 2125mm high and Hulabond panel size 6415mm wide x 130mm high	No	1		
172	Sliding Double door with top and side lights type AL/SDa-008 overall size 7123mm wide x 3825mm high with double sliding door size 1730mm x 2085mm high and Hulabond panel size 7123mm wide x 130mm high	No	1		
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	<u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u> <u>Purpose made aluminium Vistafold sliding folding door (AL/SFE-D) (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete wool piles all-round to ensure a dust proof seal to suite hinges or over head transom closer. Waterproof frame surround and joints with an approved soft seal.</u> <u>Doors to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u> <u>Minimum 24.76mm (/12mm Air Gap/6.38mm) NS PVB Laminated Safety Glass, for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u> <u>Hulabond panels by HBS Aluminium Systems installed to achieve watertight seal all to manufacturers specification. Installed with standard glazing method to suit window, shopfront or door.</u>				
173	Sliding folding door with top lights type AL/SFE-003 overall size 5373mm wide x 3825mm high with sliding folding doors over all size 5373mm x 2125mm high	No	1		
174	Sliding folding door with top lights type AL/SFE-001 overall size 5385mm wide x 3825mm high with sliding folding doors over all size 3825mm x 2125mm high	No	1		
175	Sliding folding door with top lights type AL/SFE-002 overall size 5410mm wide x 3825mm high with sliding folding doors over all size 5410mm x 2125mm high	No	1		
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	<u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u> <u>Purpose made aluminium sliding door and frame (AL/HS-D) (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete wool piles all-round to ensure a dust proof seal to suite hinges or over head transom closer, complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u> <u>Door and Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u> <u>Minimum 6mm NS PVB Laminated Safety Glass (SANS1263-1), for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u> <u>Hulabond panels by HBS Aluminium Systems installed to achieve watertight seal all to manufacturers specification. Installed with standard glazing method to suit window, shopfront or door.</u>				
176	Single sliding door panel type AL/SS001 overall size 2925mm wide x 2975mm high including automatic sliding door size 1480mm wide x 2085mm high (sliding mechanism to be approved by Architect)	No	1		
177	Single sliding door panel type AL/SSa-001 overall size 2066mm wide x 3400mm high including automatic sliding door size 1033mm wide x 2085mm high (sliding mechanism to be approved by Architect) with Hulabond panel size 2066mm wide x 130mm high	No	1		
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	<u>Aluminium Transom Panel (AL/TD) (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete wool piles all-round to ensure a dust proof seal to suite hinges or over head transom closer, complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u> <u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u> <u>Minimum 6mm NS PVB Laminated Safety Glass (SANS1263-1), for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u> <u>Hulabond panels by HBS Aluminium Systems installed to achieve watertight seal all to manufacturers specification. Installed with standard glazing method to suit window, shopfront or door.</u>				
178	Hinged double door type ALTD005 size 1650mm wide x 2125mm high	No	1		
179	Hinged double door with top and side lights type ALTD001 overall size 2400mm wide x 3400mm high with double door size 1680mm wide x 2085mm high	No	2		
180	Hinged double door with top and side lights type ALTD003 & ALTD004 overall size 3544mm wide x 3825mm high with double door size 1645mm wide x 2085mm high	No	2		
181	Hinged double door with top and side lights type ALTD002 overall size 3987mm wide x 3060mm high with double door size 1630mm wide x 2465mm high	No	2		
182	Hinged double door with top and side lights type ALTDac-001 overall size 3782mm wide x 3400mm high with double door size 1730mm wide x 2085mm high	No	1		
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	<u>Aluminium Transom Panel (AL/TD-D) (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete wool piles all-round to ensure a dust proof seal to suite hinges or over head transom closer, complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u> <u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u> <u>Minimum 24.76mm (/12mm Air Gap/6.38mm) NS PVB Laminated Safety Glass, for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u> <u>Hulabond panels by HBS Aluminium Systems installed to achieve watertight seal all to manufacturers specification. Installed with standard glazing method to suit window, shopfront or door.</u>				
183	Hinged double door with top and side lights type ALTD-D001 overall size 4053mm wide x 3400mm high with double door size 1630mm wide x 2425mm high	No	1		
184	Hinged double door with top and side lights type ALTD-D002 overall size 3994mm wide x 3825mm high with double door size 1630mm wide x 2085mm high	No	1		
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	<u>Aluminium Transom Panel (AL/TP) (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete wool piles all-round to ensure a dust proof seal to suite hinges or over head transom closer, complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u> <u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u> <u>Minimum 6mm NS PVB Laminated Safety Glass (SANS1263-1), for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u> <u>Hulabond panels by HBS Aluminium Systems installed to achieve watertight seal all to manufacturers specification. Installed with standard glazing method to suit window, shopfront or door.</u>				
185	Window type AL/TP-001 size 1641mm wide x 3400mm high	No	2		
186	Window type AL/TP-002 size 838mm wide x 3400mm high	No	2		
187	Window type AL/TP-003 size 3795mm wide x 3400mm high	No	1		
188	Window type AL/TP-004 size 1618mm wide x 2295mm high	No	1		
189	Window type AL/TP-005 with horizontal section size 5141mm wide x 850mm high, vertical section 600mm wide x 2720mm high with top hung sashes and vertical section 1800mm wide x 2420mm high with two top hung sashes	No	1		
190	Window type AL/TP-006 size 4261mm wide x 3400mm high	No	1		
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191	Window type AL/TP-007 size 4273mm wide x 2295mm high	No	1			
192	Window type AL/TP-008 size 3375mm wide x 2295mm high	No	1			
193	Window type AL/TP-009 size 3513mm wide x 2295mm high	No	1			
194	Window type AL/TP-010 with horizontal section size 3300mm wide x 850mm high and vertical section 600mm wide x 2720mm high with two top hung sash	No	1			
195	Window type AL/TP-011 size 3730mm wide x 3060mm high	No	1			
196	Window type AL/TP-012 size 725mm wide x 3060mm high	No	1			
197	Window type AL/TP-013 size 6523mm wide x 3060mm high	No	1			
198	Window type AL/TP-014 with horizontal section size 3542mm wide x 850mm high and vertical section 600mm wide x 2720mm high with two top hung sash	No	1			
199	Window type AL/TP-015 with horizontal section size 5145mm wide x 850mm high, vertical section 600mm wide x 2720mm high with top hung sash and vertical section 1800mm wide x 2380mm high with two top hung sashes	No	1			
200	Window type AL/TP-016 with horizontal section size 3372mm wide x 850mm high and vertical section 600mm wide x 1870mm high with two top hung sash	No	1			
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	<u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u> <u>Aluminium Transom Panel (AL/TP) (Clip 44, with 150mm mullions, pending detail design by Specialist) in configuration as described, complete wool piles all-round to ensure a dust proof seal to suite hinges or over head transom closer, complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u> <u>Frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u> <u>Minimum 24.76mm (/12mm Air Gap/6.38mm) NS PVB Laminated Safety Glass, for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u>				
201	Window type AL/TP-D029 size 467mm wide x 765mm high	No	1		
202	Window type AL/TP-D030 size 1558mm wide x 765mm high	No	1		
203	Window type AL/TP-D059 size 1800mm wide x 850mm high	No	1		
204	Window type AL/TP-D089 size 2681mm wide x 1700mm high	No	1		
205	Window type AL/TP-D050 size 2730mm wide x 3060mm high	No	1		
206	Window type AL/TP-D017 size 2995mm wide x 1190mm high	No	2		
207	Window type AL/TP-D062 size 3442mm wide x 850mm high	No	1		
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208	Window type AL/TP-D060 size 3871mm wide x 850mm high	No	1		
209	Window type AL/TP-D061 size 4316mm wide x 850mm high	No	1		
210	Window type AL/TP-D032 size 4570mm wide x 765mm high	No	1		
211	Window type AL/TP-D067 size 4707mm wide x 1020mm high	No	2		
212	Window type AL/TP-D084 size 4754mm wide x 935mm high	No	2		
213	Window type AL/TP-D033 size 4860mm wide x 680mm high	No	1		
214	Window type AL/TP-D035 size 4864mm wide x 680mm high	No	1		
215	Window type AL/TP-D034 size 4866mm wide x 680mm high	No	1		
216	Window type AL/TP-D082 size 5098mm wide x 1700mm high	No	2		
217	Window type AL/TP-D031 size 5318mm wide x 765mm high	No	1		
218	Window type AL/TP-D083 size 6729mm wide x 1700mm high	No	1		
219	Window type AL/TP-D087 size 11211mm wide x 3825mm high	No	1		
220	Window type AL/TP-D088 size 450mm wide x 2890mm high with top hung sash	No	2		
221	Window type AL/TP-D043 size 900mm wide x 2720mm high with top hung sash	No	1		
222	Window type AL/TP-D036 size 900mm wide x 2890mm high with top hung sash	No	3		
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223	Window type AL/TP-D025 size 900mm wide x 3400mm high with top hung sash	No	1			
224	Window type AL/TP-D058 size 1428mm wide x 3015mm high with top hung sash	No	1			
225	Window type AL/TP-D071 size 1595mm wide x 3825mm high with top hung sash	No	3			
226	Window type AL/TP-D052 size 1800mm wide x 2720mm high with two top hung sashes	No	1			
227	Window type AL/TP-D081 size 2491mm wide x 3825mm high with two top hung sashes	No	1			
228	Window type AL/TP-D057 size 2700mm wide x 2975mm high with three top hung sashes	No	1			
229	Window type AL/TP-D064 size 2723mm wide x 3825mm high with three top hung sashes	No	1			
230	Window type AL/TP-D065 size 2828mm wide x 3825mm high with three top hung sashes	No	1			
231	Window type AL/TP-D063 size 2850mm wide x 3825mm high with three top hung sashes	No	1			
232	Window type AL/TP-D069 size 2965mm wide x 2975mm high with three top hung sashes	No	1			
233	Window type AL/TP-D021 size 3000mm wide x 3400mm high with three top hung sashes	No	1			
234	Window type AL/TP-D073 size 3035mm wide x 2760mm high with three top hung sashes	No	1			
235	Window type AL/TP-D037 size 3177mm wide x 3400mm high with three top hung sashes	No	1			
236	Window type AL/TP-D053 size 3600mm wide x 2720mm high with two top hung sashes	No	1			
237	Window type AL/TP-D056 size 3716mm wide x 3825mm high with four top hung sashes	No	4			
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238	Window type AL/TP-D055 size 3727mm wide x 3825mm high with four top hung sashes	No	4			
239	Window type AL/TP-D066 size 3885mm wide x 2975mm high with four top hung sashes	No	1			
240	Window type AL/TP-D072 size 3994mm wide x 3825mm high with four top hung sashes	No	1			
241	Window type AL/TP-D018 size 4223mm wide x 3400mm high with four top hung sashes	No	5			
242	Window type AL/TP-D068 size 4418mm wide x 3485mm high with four top hung sashes	No	1			
243	Window type AL/TP-D026 size 4800mm wide x 3400mm high with four top hung sashes	No	1			
244	Window type AL/TP-D054 size 4900mm wide x 2975mm high with five top hung sashes	No	2			
245	Window type AL/TP-D080 size 5033mm wide x 3825mm high with five top hung sashes	No	1			
246	Window type AL/TP-D019 size 6781mm wide x 3400mm high with six top hung sashes	No	1			
247	Window type AL/TP-D020 size 13100mm wide x 2975mm high with twelve top hung sashes	No	1			
248	Window type AL/TP-D049 size 990mm wide x 1360mm one way soundproof double glazed unit	No	1			
249	Window type AL/TP-D047 size 1726mm wide x 1360mm one way soundproof double glazed unit	No	1			
250	Window type AL/TP-D046 size 2639mm wide x 1360mm one way soundproof double glazed unit	No	1			
251	Window type AL/TP-D044 size 2797mm wide x 1360mm one way soundproof double glazed unit	No	1			
252	Window type AL/TP-D045 size 3751mm wide x 1360mm one way soundproof double glazed unit	No	1			
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253	Window type AL/TP-D048 size 4593mm wide x 1360mm one way soundproof double glazed unit	No	1		
254	Window type AL/TP-D023 with horizontal section size 400mm wide x 850mm high and no. 2 vertical sections 600mm wide x 2550mm high with top hung sashes	No	1		
255	Window type AL/TP-D042 with horizontal section size 1340mm wide x 850mm high and vertical section 885mm wide x 1870mm high with top hung sash	No	1		
256	Window type AL/TP-D022 with horizontal section size 1800mm wide x 850mm high and vertical section 885mm wide x 2550mm high with top hung sash	No	1		
257	Window type AL/TP-D003 with horizontal section size 2173mm wide x 850mm high and vertical section size 600mm wide x 1870mm high with top hung sash	No	1		
258	Window type AL/TP-D011 with horizontal section size 2173mm wide x 850mm high and vertical section 600mm wide x 1870mm high with top hung sash	No	2		
259	Window type AL/TP-D039 with horizontal section size 2187mm wide x 850mm high and vertical section 885mm wide x 1530mm high with top hung sash	No	1		
260	Window type AL/TP-D041 with horizontal section size 2195mm wide x 850mm high and vertical section 585mm wide x 1445mm high with top hung sash	No	2		
261	Window type AL/TP-D024 with horizontal section size 2700mm wide x 850mm high and vertical section 885mm wide x 2550mm high with top hung sash	No	1		
262	Window type AL/TP-D040 with horizontal section size 2719mm wide x 935mm high and vertical section 585mm wide x 1445mm high with top hung sash	No	1		
263	Window type AL/TP-D010 with horizontal section size 3300mm wide x 850mm high and vertical section 600mm wide x 1870mm high with top hung sash	No	1		
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264	Window type AL/TP-D002 with horizontal section size 3300mm wide x 850mm high and vertical section size 600mm wide x 1870mm high with top hung sash	No	1		
265	Window type AL/TP-D027 with horizontal section size 3300mm wide x 850mm high and vertical section 1185mm wide x 2805mm high with top hung sash	No	2		
266	Window type AL/TP-D028 with horizontal section size 3300mm wide x 850mm high and vertical section 1185mm wide x 2805mm high with top hung sash	No	2		
267	Window type AL/TP-D007 with horizontal section size 3372mm wide x 850mm high and vertical section 600mm wide x 1870mm high with top hung sash	No	1		
268	Window type AL/TP-D016 with horizontal section size 3372mm wide x 850mm high and vertical section 600mm wide x 1870mm high with top hung sash	No	1		
269	Window type AL/TP-D008 with horizontal section size 3411mm wide x 850mm high and vertical section 600mm wide x 1870mm high with top hung sash	No	2		
270	Window type AL/TP-D009 with horizontal section size 3411mm wide x 850mm high and vertical section 600mm wide x 1870mm high with top hung sash	No	2		
271	Window type AL/TP-D012 with horizontal section size 3411mm wide x 850mm high and vertical section 600mm wide x 1870mm high with top hung sash	No	3		
272	Window type AL/TP-D015 with horizontal section size 3411mm wide x 850mm high, vertical section 600mm wide x 1870mm high with top hung sash and vertical section size 1800mm wide x 2380mm high with two top hung sashes	No	1		
273	Window type AL/TP-D001 with horizontal section size 3411mm wide x 850mm high and vertical section 600mm wide x 1870mm high with top hung sash	No	2		
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274	Window type AL/TP-D013 with horizontal section size 3411mm wide x 850mm high, vertical section 1800mm wide x 2380mm high with two top hung sashes and vertical section 600mm wide x 1870mm high with top hung sash	No	2		
275	Window type AL/TP-D006 with horizontal section size 3542mm wide x 850mm high and vertical section 600mm wide x 1870mm high with top hung sash	No	1		
276	Window type AL/TP-D014 with horizontal section size 3542mm wide x 850mm high and vertical section 600mm wide x 1870mm high with top hung sash	No	1		
277	Window type AL/TP-D078 with horizontal section size 4309mm wide x 1020mm high with top hung sash	No	1		
278	Window type AL/TP-D070 with horizontal section size 4349mm wide x 850mm high and two vertical sections 885mm wide x 2975mm high with two top hung sashes	No	1		
279	Window type AL/TP-D051 with horizontal section size 4857mm wide x 850mm high, one vertical section 1800mm wide x 1870mm high and one vertical section 900mm wide x 1870mm high with three top hung sashes	No	1		
280	Window type AL/TP-D004 with horizontal section size 5105mm wide x 850mm high, 1800mm wide x 2380mm high with two top hung sashes and vertical section size 600mm wide x 1870mm high with top hung sash	No	1		
281	Window type AL/TP-D005 with horizontal section size 5105mm wide x 850mm high, vertical section size 600mm wide x 1870mm high with top hung sash and 1800mm wide x 2380mm high with two top hung sashes	No	1		
282	Window type AL/TP-D038 with horizontal section size 6150mm wide x 850mm high, one vertical section 585mm wide x 1530mm high and one vertical section 1785mm wide x 1530mm high with three top hung sashes	No	1		
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283	Window type AL/TP-D079 with horizontal section size 7074mm wide x 1190mm high and vertical section 885mm wide x 1530mm high with top hung sash	No	1		
284	Window type AL/TP-D086 with horizontal section size 2100mm wide x 1190mm high and vertical section 600mm wide x 1530mm high with top hung sash	No	1		
285	Raking window type AL/TP-D085 size 5680mm wide x 2811mm high one side with 3 degree fall to 2483mm high on other side	No	1		
<u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u> <u>Purpose made aluminium window frame (AW) (Casenent 34, with 64mm mullions, pending detail design by Specialist) in configuration as described, with or without opening sections. Complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u> <u>Window frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u> <u>Minimum 6mm NS PVB Laminated Safety Glass (SANS1263-1), for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u> <u>Hulabond panels by HBS Aluminium Systems installed to achieve watertight seal all to manufacturers specification. Installed with standard glazing method to suit window, shopfront or door.</u>					
286	Window type AW-001 size 600mm wide x 1445mm high with top hung sash	No	8		
287	Window type AW-002 size 1500mm wide x 1445mm high with top hung sash	No	2		
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288	Window type AW-003 size 1500mm wide x 1445mm high	No	4		
	<u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u>				
	<u>Purpose made aluminium window frame (AW) (Casenent 34, with 64mm mullions, pending detail design by Specialist) in configuration as described, with or without opening sections. Complete with heavy duty hinges, latches and restrictors (Securistyle SDR4 or equal and approved). All opening of windows to be restricted to 150mm opening. Waterproof frame surround and joints with an approved soft seal.</u>				
	<u>Window frames to be finished Interpon D Powder Coating - Super Durability - Qualicoat® Class 2 or equal and approved (50 - 100 Micron thick)</u>				
	<u>Minimum 24.76mm (/12mm Air Gap/6.38mm) NS PVB Laminated Safety Glass, for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u>				
	<u>Hulabond panels by HBS Aluminium Systems installed to achieve watertight seal all to manufacturers specification. Installed with standard glazing method to suit window, shopfront or door.</u>				
289	Window type AW-D053 size 900mm wide x 1615mm high	No	1		
290	Window type AW-D069 size 1049mm wide x 2558mm high	No	1		
291	Window type AW-D064 size 1134mm wide x 2558mm high	No	1		
292	Window type AW-D041 size 1500mm wide x 2380mm high	No	4		
293	Window type AW-D057 size 2075mm wide x 850mm high	No	1		
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294	Window type AW-D034 size 1500mm wide x 2805mm high	No	1			
295	Window type AW-D051 size 2192mm wide x 850mm high	No	1			
296	Window type AW-D049 size 2202mm wide x 850mm high	No	1			
297	Window type AW-D050 size 2255mm wide x 850mm high	No	1			
298	Window type AW-D009 size 2798mm wide x 850mm high	No	1			
299	Window type AW-D007 size 2800mm wide x 850mm high	No	2			
300	Window type AW-D055 size 3542mm wide x 2558mm high	No	2			
301	Window type AW-D054 size 3698mm wide x 2558mm high	No	1			
302	Window type AW-D033 size 599mm wide x 1105mm high with top hung sash	No	4			
303	Window type AW-D037 size 600mm wide x 850mm high with top hung sash	No	1			
304	Window type AW-D079 size 600mm wide x 880mm high with top hung sash	No	2			
305	Window type AW-D028 size 600mm wide x 1530mm high with top hung sash	No	2			
306	Window type AW-D052 size 600mm wide x 1615mm high with top hung sash	No	10			
307	Window type AW-D065 size 600mm wide x 1870mm high with top hung sash	No	4			
308	Window type AW-D074 size 600mm wide x 2210mm high with top hung sash	No	16			
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309	Window type AW-D063 size 600mm wide x 2292mm high with top hung sash	No	7			
310	Window type AW-D018 size 600mm wide x 2380mm high with top hung sash	No	1			
311	Window type AW-D071 size 600mm wide x 2720mm high with top hung sash	No	6			
312	Window type AW-D047 size 600mm wide x 2720mm high with top hung sash	No	21			
313	Window type AW-D056 size 600mm wide x 3060mm high with top hung sash	No	4			
314	Window type AW-D066 size 600mm wide x 3145mm high with top hung sash	No	12			
315	Window type AW-D030 size 758mm wide x 2380mm high with top hung sash	No	1			
316	Window type AW-D032 size 815mm wide x 2380mm high with top hung sash	No	1			
317	Window type AW-D075 size 900mm wide x 2210mm high with top hung sash	No	1			
318	Window type AW-D060 size 900mm wide x 2295mm high with top hung sash	No	1			
319	Window type AW-D062 size 900mm wide x 2295mm high with top hung sash	No	12			
320	Window type AW-D048 size 900mm wide x 2380mm high with top hung sash	No	4			
321	Window type AW-D046 size 900mm wide x 2720mm high with top hung sash	No	22			
322	Window type AW-D073 size 900mm wide x 2720mm high with top hung sash	No	11			
323	Window type AW-D067 size 900mm wide x 3145mm high with top hung sash	No	1			
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324	Window type AW-D058 size 1140mm wide x 2720mm high with top hung sash	No	1			
325	Window type AW-D004 size 1200mm wide x 1530mm high with top hung sash	No	2			
326	Window type AW-D005 size 1200mm wide x 2210mm high with top hung sash	No	2			
327	Window type AW-D068 size 1200mm wide x 2295mm high with top hung sash	No	1			
328	Window type AW-D036 size 1500mm wide x 1955mm high with top hung sash	No	1			
329	Window type AW-D045 size 1500mm wide x 1955mm high with top hung sash	No	1			
330	Window type AW-D072 size 1500mm wide x 2125mm high with top hung sash	No	1			
331	Window type AW-D025 size 1500mm wide x 2380mm high with top hung sash	No	1			
332	Window type AW-D077 size 1500mm wide x 2720mm high with top hung sash	No	1			
333	Window type AW-D043 size 1666mm wide x 1955mm high with top hung sash	No	2			
334	Window type AW-D042 size 1674mm wide x 1955mm high with top hung sash	No	2			
335	Window type AW-D029 size 1745mm wide x 2380mm high with top hung sash	No	1			
336	Window type AW-D031 size 1745mm wide x 2380mm high with top hung sash	No	1			
337	Window type AW-D016 size 1782mm wide x 2380mm high with top hung sash	No	2			
338	Window type AW-D035 size 1800mm wide x 1955mm high with top hung sash	No	1			
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339	Window type AW-D040 size 1800mm wide x 1955mm high with top hung sash	No	1			
340	Window type AW-D061 size 1800mm wide x 2720mm high with two top hung sashes	No	1			
341	Window type AW-D076 size 1800mm wide x 2720mm high with top hung sash	No	2			
342	Window type AW-D006 size 1800mm wide x 3230mm high with two top hung sashes	No	2			
343	Window type AW-D008 size 1800mm wide x 3230mm high with two top hung sashes	No	2			
344	Window type AW-D039 size 2400mm wide x 1955mm high with top hung sash	No	1			
345	Window type AW-D044 size 2400mm wide x 1955mm high two top hung sash	No	1			
346	Window type AW-D059 size 2400mm wide x 2295mm high with two top hung sashes	No	2			
347	Window type AW-D023 size 2400mm wide x 2380mm high with top hung sash	No	1			
348	Window type AW-D024 size 2400mm wide x 2380mm high with top hung sash	No	1			
349	Window type AW-D010 size 3642mm wide x 2975mm high with four top hung sashes	No	1			
350	Window type AW-D038 size 3300mm wide x 1955mm high with two top hung sashes	No	1			
351	Window type AW-D022 size 3300mm wide x 2380mm high with two top hung sashes	No	1			
352	Window type AW-D011 size 3350mm wide x 2975mm high with four top hung sashes	No	1			
353	Window type AW-D012 size 3350mm wide x 2975mm high with four top hung sashes	No	1			
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354	Window type AW-D013 size 3350mm wide x 2975mm high with four top hung sashes	No	2			
355	Window type AW-D078 size 600mm wide x 6460mm high with two top hung sashes, Hulabond panel size 600mm wide x 482mm wide and louvre size 600mm wide x 656mm high (elsewhere measured)	No	1			
356	Window type AW-D001 size 600mm wide x 6458mm high with two top hung sashes and Hulabond panel size 600mm wide x 482mm wide	No	10			
357	Window type AW-D019 size 600mm wide x 6210mm high with two top hung sashes and Hulabond panel size 600mm wide x 482mm wide	No	14			
358	Window type AW-D002 size 900mm wide x 7225mm high with two top hung sashes and Hulabond panel size 900mm wide x 822mm wide	No	3			
359	Window type AW-D017 size 900mm wide x 5355mm high with two top hung sashes and Hulabond panel size 900mm wide x 482mm wide	No	20			
360	Window type AW-D020 size 1500mm wide x 5355mm high with two top hung sashes and Hulabond panel size 1500mm wide x 482mm wide	No	1			
361	Window type AW-D003 size 1800mm wide x 7225mm high with four top hung sashes and two Hulabond panel size each 900mm wide x 822mm wide	No	3			
362	Window type AW-D014 size 1800mm wide x 5355mm high with two top hung sashes and Hulabond panel size 1800mm wide x 482mm wide	No	4			
363	Window type AW-D015 size 1800mm wide x 5355mm high with two top hung sashes and Hulabond panel size 1800mm wide x 482mm wide	No	2			
364	Window type AW-D027 size 2100mm wide x 5355mm high with two top hung sashes and Hulabond panel size 2100mm wide x 482mm wide	No	2			
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365	Window type AW-D026 size 2400mm wide x 5355mm high with two top hung sashes and Hulabond panel size 2400mm wide x 482mm wide	No	3		
366	Window type AW-D021 size 2400mm wide x 5355mm high with two top hung sashes and Hulabond panel size 2400mm wide x 482mm wide	No	2		
	<u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u> <u>Purpose made aluminium view panel (VP) (Wispeco to detail design by Specialist) in configuration as described.</u> <u>View panel to be finished Polyester Powder Coated (50 - 100 Micron thick)</u> <u>Minimum 6mm NS PVB Laminated Safety Glass (SANS1263-1), for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u> <u>Hulabond panels by HBS Aluminium Systems installed to achieve watertight seal all to manufacturers specification. Installed with standard glazing method to suit window, shopfront or door.</u>				
367	View panel type VP003 size 1200mm wide x 1360mm high	No	2		
368	View panel type VP004 size 1500mm wide x 1360mm high	No	2		
369	View panel type VP002 size 1800mm wide x 1360mm high	No	2		
370	View panel type VP001 size 2100mm wide x 1360mm high	No	3		
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	<u>Purpose made Aluminium windows, doors and shopfronts as by Wispeco (011 389 0000) to suit required site specific wind loads.</u> <u>Purpose made aluminium view panel (CVP) (Wispeco to detail design by Specialist) in configuration as described.</u> <u>View panel to be finished Polyester Powder Coated (50 - 100 Micron thick)</u> <u>Minimum 6mm NS PVB Laminated Safety Glass (SANS1263-1), for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u> <u>Hulabond panels by HBS Aluminium Systems installed to achieve watertight seal all to manufacturers specification. Installed with standard glazing method to suit window, shopfront or door.</u>				
371	Counter view panel type ALCVP001 size 2705mm wide x 1615mm high	No	2		
372	Counter view panel type ALCVP004 overall size 1354mm wide x 1615mm high with 100mm opening on counter	No	1		
373	Counter view panel type ALCVP003 overall size 1777mm wide x 1615mm high with 100mm opening on counter	No	1		
374	Counter view panel type ALCVP006 overall size 2530mm wide x 1360mm high with 100mm opening on counter	No	2		
375	Counter view panel type ALCVP002 overall size 2680mm wide x 1615mm high with 100mm opening on counter	No	1		
376	Counter view panel type ALCVP005 overall size 2866mm wide x 1615mm high with 100mm opening on counter	No	1		
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377	Allowance for purpose made aluminium window with double glazing of R350 000.00 type CUS001		Item			
	<u>ALUMINIUM LOUVRES</u>					
	<u>Purpose made powder coated aluminium louvre panels as per Wispeco specification or equal and approved with Crealco Lazy Z Clip 44 louvres with 2 screw ports equally spaced at 50mm complete with outer frames, stringers, brackets and mesh bird/vermin proofing, doors to be of clip 44 Profile with 150mm mullions including hinges, (locks measured elsewhere)</u>					
378	Fixed louvres 3420 x 765mm in 4 panels including double door 1770 x 2255mm high type ALLZD-001	No	1			
379	Fixed louvres 4931 x 765mm in 6 panels including double door 1770 x 2255mm high type ALLZD-002	No	1			
380	Fixed louvres 1032 x 1190mm in 2 panels including double door 1032 x 2155mm high type ALLZD-003	No	1			
381	Fixed louvres 1650 x 1190mm in 1 panel including double door 1650 x 2155mm high type ALLZD-004	No	1			
382	Louvre panel overall size 7787 x 6375mm high consisting of 12 fixed louvre panels and two double door size 1695 x 2380mm high type ALLZD-05	No	1			
383	Double louvre door size 1267 x 425mm high type ALLZD-006	No	3			
384	Double louvre door size 1461 x 425mm high type ALLZD-007	No	2			
385	Fixed louvre panel consisting of panel 2646 x 765mm in 3 panels and one panel 887 x 2255mm high type ALLZP001	No	1			
386	Fixed louvre panel 1585 x 765mm high in 2 panels type ALLZP002	No	1			
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387	Fixed louvre panel consisting of panel 5138 x 765mm in 7 panels, 2022 x 2255mm in 3 panels and one panel 894 x 2255mm high type ALLZP003	No	1		
388	Fixed louvre panel 456 x 3060mm high in 2 panels type ALLZP004	No	1		
389	Fixed louvre panel 964 x 3060mm high in 2 panels type ALLZP005	No	1		
390	Fixed louvre panel 516 x 1105mm high type ALLZP006	No	2		
391	Fixed louvre panel 963 x 3655mm high in 2 panels type ALLZP007	No	1		
392	Fixed louvre panel 2991 x 3825mm high in 8 panels type ALLZP009	No	2		
393	Fixed louvre panel 2770 x 3825mm high in 8 panels type ALLZP010	No	1		
394	Fixed louvre panel 2055 x 3740mm high in 6 panels type ALLZP012	No	4		
395	Fixed louvre panel consisting off two panels each 3765 x 3995mm high in 10 panels type ALLZP013	No	1		
396	Fixed louvre panel 5338 x 3825mm high in 14 panels type ALLZP014	No	1		
397	Fixed louvre panel consisting off two panels 609 x 510mm and other 681 x 3145mm in 2 panels type ALLZP015	No	1		
398	Fixed louvre panel 2569 x 765mm high in 4 panels type ALLZP016	No	3		
399	Fixed louvre panel 860 x 860mm high type ALLZP020	No	1		
400	Fixed louvre panel consisting off two panels each 3032 x 3020mm high in 4 panels type ALLZP021	No	2		
401	Fixed louvre panel consisting off two panels each 2753 x 3020mm high in 4 panels type ALLZP022	No	1		
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402	Fixed louvre panel 3502 x 2860mm high in 4 panels type ALLZP023	No	1			
403	Fixed louvre panel 493 x 3060mm high in 2 panels type ALLZP024	No	1			
404	Fixed louvre panel 560 x 430mm high type ALLZP025	No	1			
405	Fixed louvre panel 1200 x 600mm high in 2 panels type ALLZP026	No	5			
406	Fixed louvre panel 1200 x 600mm high in 2 panels type ALLZP027	No	2			
407	Fixed louvre panel 1200 x 600mm high in 2 panels type ALLZP028	No	1			
408	Fixed louvre panel 1200 x 600mm high in 2 panels type ALLZP029	No	2			
409	Fixed louvre panel 4850 x 4080mm high in 12 panels type ALLZP031	No	2			
410	Louvre panel overall size 3084 x 4250mm high consisting of 7 fixed louvre panels and one single door size 890 x 2340mm high type ALLZS-001	No	4			
411	Fixed louvres 7431 x 765mm in 9 panels including single door 905 x 2255mm high type ALLZS-002	No	1			
412	Louvre panel overall size 1531 x 4290mm high consisting of 5 fixed louvre panels and one single door size 880 x 2380mm high type ALLZS-003	No	1			
413	Louvre panel overall size 1495 x 3060mm high consisting of 5 fixed louvre panels and one single door size 880 x 2380mm high type ALLZS-004	No	1			
414	Louvre panel overall size 2890 x 3060mm high consisting of 5 fixed louvre panels and one single door size 880 x 2255mm high type ALLZS-005	No	3			
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415	Louvre panel overall size 2760 x 34650mm high consisting of 5 fixed louvre panels and one single door size 925 x 2550mm high and one additional fixed panel 398 x 1105mm high type ALLZS-006	No	1		
416	Louvre panel overall size 4588 x 3570mm high consisting of 9 fixed louvre panels and one single door size 927 x 2635mm high type ALLZS-007	No	1		
417	Louvre panel overall size 4879 x 3655mm high consisting of 13 fixed louvre panels and one single door size 880 x 2435mm high type ALLZS-008	No	2		
418	Louvre panel consisting of one fixed louvre panel 700 x 935mm and one single door size 700 x 2720mm high type ALLZS-009	No	1		
419	Louvre panel overall size 1534 x 4080mm high consisting of 3 fixed louvre panels and one single door size 909 x 2350mm high type ALLZS-010	No	1		
420	Louvre panel consisting of one fixed louvre panel 900 x 1700mm and one single door size 900 x 2380mm high type ALLZS-011	No	1		
421	Louvre panel consisting of one fixed louvre panel 1030 x 1700mm and one single door size 1030 x 2210mm high type ALLZS-012	No	1		
422	Louvre panel consisting of one fixed louvre panel 1030 x 1700mm and one single door size 1030 x 2210mm high type ALLZS-013	No	2		
423	Louvre panel consisting of one fixed louvre panel 1050 x 1190mm and one single door size 1050 x 2380mm high type ALLZS-014	No	1		
424	Louvre panel overall size 4559 x 3315mm high consisting of 7 fixed louvre panels, two single doors size 925 x 2125mm and one single door size 910 x 2125mm high type ALLZS-015	No	2		
425	Louvre panel overall size 1816 x 2720mm high consisting of 3 fixed louvre panels and one single door size 900 x 2300mm high type ALLZS-0016	No	1		
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426	Louvre panel overall size 1275 x 1445mm high consisting of 1 fixed louvre panels and one single door size 915 x 1445mm high type ALLZS-0017	No	1		
427	Single louvre door size 1200 x 2125mm high type ALLZS-018	No	1		
428	Louvre panel overall size 1675 x 3060mm high consisting of 3 fixed louvre panels and one single door size 870 x 2295mm high type ALLZS-019	No	1		
429	Louvre panel overall size 3365 x 3655mm high consisting of 9 fixed louvre panels and one single door size 900 x 2720mm high type ALLZS-020	No	1		
430	Single louvre door size 600 x 1900mm high type ALLZS-021	No	1		
431	Louvre panel consisting of one fixed louvre panel 788 x 1870mm and one single door size 788 x 2085mm high type ALLZS-022	No	1		
432	Louvre panel overall size 1147 x 4080mm high consisting of 3 fixed louvre panels and one single door size 915 x 2380mm high type ALLZS-023	No	1		
433	Louvre panel overall size 4879 x 3995mm high consisting of 13 fixed louvre panels and one single door size 880 x 2125mm high type ALLZS-024	No	1		
434	Louvre panel overall size 1420 x 3825mm high consisting of 5 fixed louvre panels and one single door size 915 x 2125mm high type ALLZS-025	No	1		
435	Louvre panel overall size 1487 x 3825mm high consisting of 5 fixed louvre panels and one single door size 915 x 2125mm high type ALLZS-026	No	1		
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	<u>Purpose made High Security Gates by ClearVu or equal and approved panels, gates and sliding gates. Panel aperture to be 76 x 12.7mm, reinforced by 4 x 50mm deep V formation, 2 x 70 flanges along sides and 2 x 30mm flanges on top and bottom, panels to be hot dipped galvanised and Marine fusion coated, with and including frame and posts as per manufactures specification and installed all in accordance with the manufacturers specification</u>				
436	Panel overall size 4576 x 3060mm in 3 panels including 50 x 50mm frame type SEC/CVP006	No	2		
437	Panel overall size 4928 x 3060mm in 3 panels including 50 x 50mm frame type SEC/CVP007	No	1		
438	Panel overall size 3464 x 3060mm in 3 panels including 50 x 50mm frame type SEC/CVP008	No	1		
439	Panel overall size 4600 x 2255mm in 2 panels including 50 x 50mm frame type SEC/CVP009	No	2		
440	Panel overall size 2360 x 2935mm including 50 x 50mm frame type SEC/CVP010	No	1		
441	Panel overall size 3595 x 2255mm in panels including 50 x 50mm frame type SEC/CVP012	No	1		
442	Double gates size 1800 x 2675mm high in 2 panels including 50 x 50mm frame type SEC/CVD002	No	1		
443	Sliding gate size 9650 x 2800mm high in 5 panels including 50 x 50mm frame and 100 x 100mm posts and all sliding gear and closing mechanisms type SEC/CVSSa001	No	1		
444	Sliding gate size 8351 x 28005mm high in 5 panels including 50 x 50mm frame and 100 x 100mm posts and all sliding gear and closing mechanisms type SEC/CVSSa002	No	1		
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445	Sliding gate size 9416 x 2805mm high in 5 panels including 50 x 50mm frame and 100 x 100mm posts and all sliding gear and closing mechanisms type SEC/CVSSa003	No	1		
446	Sliding gate size 10047 x 2805mm high in 5 panels including 50 x 50mm frame and 100 x 100mm posts and all sliding gear and closing mechanisms type SEC/CVSSa004	No	1		
447	Panel size 1049 x 2720mm high with top light and door size 1049 x 2255mm high complete with 50 x 50mm frame type SEC/CVS005	No	1		
448	Panel overall size 3205 x 2215mm high in 3 panels with door size 1029 x 2125mm high complete including 50 x 50mm frame for door and panel type SEC/CVS006	No	2		
449	Panel overall size 110 x 2210mm high including 50 x 50mm frame and 100 x 100mm posts complete type SEC/CVS007	No	2		
450	Panel overall size 3805 x 2380mm high in 2 panels including 75 x 75mm hollow section frame type SEC/CVSS001	No	1		
451	Allowance of R600 000.00 for design development on aluminium screens		Item		
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Item No		Quantity	Rate	Amount	
	<u>SECTION NO. 2</u>				
	<u>BILL NO. 11</u>				
	<u>PLASTERING</u>				
	<u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	Cement is to be manufactured in accordance with SANA 50197-1, SANA 2001-EM1:2007 and Successful Plastering from the Concrete Institute.				
	<u>SELF-LEVELLING SCREED</u>				
	<u>Prepare surface and apply two coats approved primer, followed by a single application of cementitious self-levelling screed trowelled by hand as per the manufacturer's instructions</u>				
1	Average 3mm Thick on concrete floors to receive vinyl sheeting	m2	7,493		
	<u>SCREEDS</u>				
	<u>1:3 Cement plaster screeds on concrete</u>				
2	30mm Thick on floors	m2	10,484		
3	30mm Thick on floors to falls	m2	104		
4	30mm Thick on narrow widths	m2	79		
5	30mm Thick on treads and risers	m2	43		
6	100mm Thick (average) on slabs to falls to receive waterproofing	m2	2,740		
	Carried to Collection			R	
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7	75 x 75mm Triangular fillet at perimeter of roof screed to receive turn-up of waterproofing	m	1,907			
	<u>GRANOLITHIC</u>					
	<u>Untinted granolithic on concrete</u>					
8	32mm Thick on floors.	m2	618			
9	30mm Thick on treads and risers	m2	62			
10	One coat non-slip wax polish on grano floors.	m2	618			
11	75mm High coved skirting against walls	m	720			
	<u>POLYURETHANE SCREED</u>					
	<u>Sikafloor-20N PurCem or equal and approved multi-component resin rich smooth trowel grade coloured polyurethane cement and aggregate screed with steel trowel finish applied according to manufacturers specification</u>					
12	6mm Thick on floors	m2	723			
13	9mm Thick on floors	m2	125			
14	6mm Thick on treads and risers	m2	1			
	<u>Sikafloor-29N PurCem or equal and approved multi-component vertical grade coloured polyurethane modified for detailing work and vertical rendering applied according to manufacturers specification</u>					
15	100mm High Sikafloor-29N Purcem - Coving system 3 - 9mm thick multi-component, vertical grade, coloured polyurethane modified, cement and aggregate mortar vertical skirting or equal and approved in accordance with manufacturer's specification	m	659			
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	<u>Sikafloor-21N PurCem or equal and approved multi-component medium to high strength coloured polyurethane modified cement and aggregate screed with self-smoothing properties applied according to manufacturers specification</u>				
16	4mm Thick on floors	m2	55		
	<u>EXTERNAL PLASTER</u>				
	<u>One coat cement plaster minimum 12mm thick composed of 1 part Surebuild cement (Code: CEMII/B 32.5R) and 6 parts sand and one bag of CHRYSO Fibrin XT fibres (+27(0)11 395 9700) (600gr) per m3 of concrete or equal and approved, finished smooth with a steel float to received wall finish, including all labours on brickwork</u>				
17	On walls (part on concrete)	m2	5,468		
18	On walls (part on concrete) circular on plan	m2	43		
19	On walls in narrow widths.	m2	324		
20	On concrete soffits	m2	1,288		
	<u>INTERNAL PLASTER</u>				
	<u>One coat cement plaster minimum 12mm thick composed of 1 part Surebuild cement (Code: CEMII/B 32.5R) or equal and approved and 6 parts sand and one bag of CHRYSO Fibrin XT mono filament polypropylene fibres or equal and approved (+27(0)11 395 9700) (600gr) per m3 of concrete, finished smooth with a wood float for tiling including all labours on brickwork</u>				
21	On walls, part on concrete	m2	418		
22	On walls, part on concrete circular on plan	m2	31		
23	On concrete soffits	m2	723		
24	On narrow widths	m2	25		
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	<u>Supply and apply one coat Versus Europlaster 1.2mm or equal and approved by steel trowel and float in random movement with acrylic trowel to approved texture, tinted to architects approved colour specification using BAYFERROX Ion oxide pigments or equal and approved (optimised synthesis of shade, colour, strength and heat stability) all accordance with manufacturing requirements</u>				
30	On external plastered walls	m2	2,217		
31	On narrow widths	m2	53		
	<u>Versus Suede Plaster Finish</u>				
	<u>Supply and apply one coat Versus primer and one coat Versus Suede equal and approved by steel trowel, tinted to architects approved colour all accordance with manufacturing requirements</u>				
32	On external plastered walls	m2	203		
33	On narrow widths	m2	6		
	<u>Versus Italic Plaster Finish</u>				
	<u>Supply and apply one coat Versus Italic or equal and approved by steel trowel and float in random movement with stainless steel trowel and floated by plastic float to approved texture, tinted to architects approved colour specification using BAYFERROX Ion oxide pigments or equal and approved (optimised synthesis of shade, colour, strength and heat stability) all accordance with manufacturing requirements</u>				
34	On external plastered walls	m2	800		
35	On narrow widths	m2	49		
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	<u>SECTION NO. 2</u>			
	<u>BILL NO. 12</u>			
	<u>TILING</u>			
	<u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>			
	<u>WALL TILING</u>			
	<u>Glazed ceramic wall tiles UT4078 size 300mm x 600mm with 3mm joints installed to tile pattern layout, fixed with 0860 000 TAL (825) or equal and approved porcelain adhesive to plaster (plaster elsewhere) and flush pointed with TAL Wall & Floor Grout or equal and approved</u>			
1	On walls	m2	435	
2	In splash backs	m2	44	
3	In narrow widths	m2	1	
4	On sills 110mm wide laid sloping	m	96	
	<u>Glazed verified porcelain wall tiles UT4080 with PEI 3 rating (EN ISO 10545-7) with 3mm joints installed to tile pattern layout, fixed an approved porcelain adhesive to plaster (plaster elsewhere) and flush pointed with TAL Acid Resistant Grout or equal and approved</u>			
5	On walls	m2	52	
	<u>Allow a Prime Cost Amount of R450/m2 for natural stone external tiles fixed with an approved adhesive to plaster (plaster elsewhere) and flush pointed with tile grout</u>			
6	On walls	m2	240	
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7	On walls circular on plan	m2	87		
8	In narrow widths	m2	3		
<u>FLOOR TILING</u>					
<u>Vitrified full body porcelain (UGL) tiles size 600 x 600mm with a water absorption (EN ISO 10545-3) of less than 0,1% and a scratch resistance (EN ISO 10545-7) of <150mm3, slip classification (DIN 51130(R)) to be R11 install with an approved tile adhesive and joints filled with COPROX waterproof grout all strictly to manufacturer's specifications. Colour and type to Architect's approval</u>					
9	On floors.	m2	992		
10	On treads and risers.	m2	47		
11	In narrow widths.	m2	37		
12	100mm High cut skirting tile on walls.	m	633		
13	100mm High cut skirting tile on walls to treads and risers	m	30		
<u>Double charge Vitrified full body porcelain tiles size 600 x 600mm with a water absorption (EN ISO 10545-3) of less than 0,1% and s scratch resistance (EN ISO 10545-7) of <150mm3, slip classification (DIN 51130(R)) to be R9 install with an approved tile adhesive and joints filled with COPROX waterproof grout all strictly to manufacturer's specifications. Colour and type to Architect's approval</u>					
14	On floors.	m2	1,466		
15	On treads and risers.	m2	16		
16	In narrow widths.	m2	27		
17	100mm High cut skirting tile on walls.	m	1,165		
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SUNDRIES					
18	"Kirk M-Trim ASE 080", or equal approved, aluminium straight edge trim fixed in strict accordance with the manufacturer's instructions	m	383		
19	"Kirk M-Trim ATIN100" aluminium tile-in stair nosing or equal and approved size 25 x 100mm high to suit tiling thickness fitted on treads in strict accordance with the manufacturer's instructions.	m	96		
Carried to Collection					
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	<u>SECTION NO. 2</u> <u>BILL NO. 13</u> <u>PLUMBING AND DRAINAGE</u> <u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>uPVC pipes and fittings:</u> Soil, waste and vent pipes and fittings shall be solvent weld jointed <u>uPVC pressure pipes and fittings:</u> Pipes for water supply shall be of the class stated Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings 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			
	Carried to Collection		R	
	Section No. 2 Bill No. 14 Plumbing and Drainage			

<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 only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground				
<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				
<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				
<u>Excavations</u>				
No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling				
<u>Laying, backfilling, bedding, etc. of pipes</u>				
Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions				
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Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding <u>Stainless steelbasins, sinks, wash troughs, urinals, etc.</u> Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable <u>Waste unions</u> Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings <u>"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.</u> Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc <u>RAINWATER DISPOSAL</u> <u>HDPE pipes</u>				
1 110mm Pipes	m	435		
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	<u>Extra over HDPE pipes for fittings</u>				
2	110mm Bend	No	192		
	<u>"Fulbore" cast iron outlets</u>				
3	110mm Vertical outlet including dome	No	8		
4	110mm 90 degree outlet including dome	No	64		
	<u>SANITARY FITTINGS</u>				
	<u>Sanitary fittings complete with all waste unions, plugs, chains, etc. including building into or fixing to building structure</u>				
	<u>"Vaal" or equal and approved</u>				
5	"Hibiscus code 702303" wall hung basin without pedestal size 510 x 405mm bolted to walls complete with "Cobra 303" waste and "Cobra 309-32" anti theft plug and spindle	No	16		
6	"Bantam code 7030" wall hung basin size 455 x 290mm with two tapholes bolted to walls complete with "Cobra 303" waste and "Cobra 309-32" anti theft plug and spindle	No	5		
7	"Lavatera" white vitreous china wall hung bowl urinal (code 704002) overall size 600 x 385 x 380mm complete with 38mm chrome plated dominical grating (code 8787), chrome-plated top inlet spreader (code 7041Z0) and fixed to wall with two hanger brackets (code 8127Z0).	No	24		
8	"Daisy code 751400" vitreous china semi closed coupled washdown pan complete with lid and fittings	No	78		
9	"Lab sink ceramic fireclay laboratory sink (Code 234500) size 435 x 355mm with waste outlet including acid resistant waste fitting (Code 8790Z0) fitted to underside of opening in worktop on and including two adjustable underslung brackets (Code 8109Z0)	No	1		
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10	<u>"Basco Bay Medical" or equal and approved</u>				
	600 x 432 x 310 mm solid surface Med Hand Wash Basin (Basco Bay Medi Basin). Installed to wall strictly to manufacturers specifications. Basco Solid Surface (031-7008755 / 031 7008755)	m	13		
	<u>"Maxontop" or equal and approved</u>				
	11 Purpose made solid surface baby bath from Technosurfaces using Avonite Solid Surfacing integrated into solid surface top complete with under mounted bath (bath product (code WAVONITEBABYBATH), size through bowl 680 x 430 x 175mm deep. (MAXONTOP +27 (0) 82 789 3580 https://www.maxontop.co.za/ < http://www.maxontop.co.za/ >www.maxontop.co.za < http://www.maxontop.co.za/ >	No	1		
	<u>"Franke" or equal and approved</u>				
12	1,2mm thick stainless steel model Oval A wash hand basin size 420 x 340mm with pressed bowl, with two tapholes, with 100mm radius apron and 50mm high splashback, (Code 357456) excluding waste four times bolted to wall with M6 expansion bolts	No	15		
13	Rondo Model RDX610-45 Grade 304 18/10 polished stainless steel centre prep bowl (Code: 1990012), size 450mm diameter x 155mm deep bowl, fitted onto cupboard (elsewhere specified) including 38mm waste fitting and PVC trap (trap elsewhere specified).	No	2		
14	Franke Grade 304 18/10 stainless steel model S2 double end catering sink, size 1500 x 650mm wide with 2No. 500 x 500 x 230mm deep pressed bowls, 150mm high integral splashback to rear, 50 x 10mm turndown with a beaded edge, underside sprayed with vermin proof bitumastic sound deadening and 50mm waste outlet, fitted onto 41mm round stainless steel detachable legs with adjustable flanged foot piece and supported on 30 x 30 x 30mm framework and galvanised mild steel backing sheet and fitted with stainless steel slatted undershelf	No	1		
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15	Franke Grade 304 18/10 stainless steel model S2 double end catering sink, size 1500 x 650mm wide with 2No. 500 x 500 x 230mm deep pressed bowls, 150mm high integral splashback to rear, 50 x 10mm turndown with a beaded edge, underside sprayed with vermin proof bitumastic sound deadening and 50mm waste outlet, fitted onto 41mm round stainless steel detachable legs with adjustable flanged foot piece and supported on 30 x 30 x 30mm framework and galvanised mild steel backing sheet and fitted with stainless steel solid undershelf.	No	2		
16	Franke Grade 304 (18/10) stainless steel wall bench size 1500 x 650mm with 150mm high integral splashback at rear and 50 x 10mm turn down to remaining sides, the underside of the unit sprayed with vermin proof bitumastic sound deadening and supported on 30 x 30 x 3mm painted mild steel angle framework with galvanised mild steel backing sheet and set of 38mm diameter stainless steel detachable legs with adjustable flanged foot pieces	No	2		
17	Franke Grade 304 (18/10) stainless steel wall bench size 2100mm x 600mm with 150mm high integral splashback at rear and 50 x 10mm turn down to remaining sides, the underside of the unit sprayed with vermin proof bitumastic sound deadening and supported on 30 x 30 x 3mm painted mild steel angle framework with galvanised mild steel backing sheet	No	2		
18	Grade 304 (18/10) stainless steel wall bench size length x 600mm without splashback at rear and 50 x 10mm turn down to all sides, the underside of the unit sprayed with vermin proof bitumastic sound deadening and supported on 30 x 30 x 3mm painted mild steel angle framework with galvanised mild steel backing sheet	No	4		
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19	1,6mm Grade 304 18/10 stainless steel EL bedpan sluice sink (SS045 Left Bowl Code: 350300) (SS045A Right Bowl Code: 350302), size 1130 x 685 x 1050mm with pressed seamless sluice bowl with integral flushing rim, 150mm high integral splashback, 15mm deep hospital bead, 100mm apron, 110mm waste outlet connected to S or P trap (elsewhere specified), on sluice bowl and fixing on pair of stainless steel gallows brackets and legs with adjustable feet, each bracket twice bolted to wall with M8 expansion bolts and each foot twice plugged and screwed to floor. Unit supplied complete with the following Cobra Plumbing.Cobra Watertech exposed WC chrome plated 35mm Standard Flushmaster flushvalve (code: FM1-000) with non-hold open feature, vacuum breaker, wall flange, adjustable telescopic connection and 32mm control stop with integral non-return valve inlet. Includes: wall plate, non-hold open feature, integral vacuum breaker, 1 1/4" control stop w/integral non- return valve inlet, wall flange, & adjustable telescopic connection. SANS 1240.15mm round bedpan spray nozzle & (X1) 15mm round bottle spray nozzle. Cobra 514-21B 15mm elbow action valve for each pillar mixer (2 units)Includes: blue indice, 1/4" turn ceramic disc, 1/2" BSP male inlet, and sliding flange. Ideal for medical, kitchen and industrial installations. SANS 226 Type 2	No	2		
20	Zip stainless steel WM42 wall mounted chiller (Code: 2610024), size 345 x 465 x 745mm high, 42 litre capacity with chilled water and GlobalPlus™ water filtration kit, connected to 15mm cold water supply and 220 volt 15 amp electrical power supply, plugged and screwed to wall and fitted under 1 year guarantee	No	5		
Carried to Collection					R
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	<u>"Kwikot" or equal and approved</u> 21 Slop Hopper with cowling size 535x685x510mm high manufactured from 304(18/10) stainless steel 1,2mm thick with a 100mm high integral splash back to rear and both sides, Model HDGX -SLOP 1 for floor and HDGX -SLOP 2 for wall connection. The cone has a integral flushing rim and 100mm Ø stainless steel "S" or "P" trap .Unit fitted with a back entry flush pipe for a standard flush valve. Unit fitted with a hinged bucket grid manufactured from 10mm diameter 304 (18/10) complete with two 40x40mm square stainless steel wall mounting gallows brackets fixed to wall with 4 of anchor bolts. Slop hopper supplied complete with floor mounting bracket as per manufacturers specification, No 22 Kwikot model BHA900X Single centre bowl special Post Formed sink size 900x595mm manufactured in 1,2mm grade 304 Stainless steel, bowl size 410x350x150mm deep with a 12mm splashback at rear complete with 1 no:- PVC combination overflow fitting with anti theft plug and Laveteria back entry spreader to fitted to bowl on right hand side No 23 Kwikot model BHA1200x595X double End (please specify which end - left or right hand bowls) Special Post Formed sink size 1200x595 , manufactured in 1,2mm grade 304 Stainless steel , bowl size 410x350x150mm deep with a 12mm splashback at rear complete with 2 no:- PVC combination overflow fittings with anti theft plug and Laveteria back entry spreader to fitted to bowl on drainer end No 24 Model UTU1000X single end (please specify end-Left or Right hand bowl) post formed urine test unit size 1000x595mm manufactured in 1,2mm grade 304 stainless steel with a 12mm splash back to back, flat top -no fluting- hospital bead only, bowl size 410x350x150mm deep with a 12mm splashback at rear complete with 1 no:- PVC combination overflow fitting with anti theft plug No <u>TRAPS, ETC.</u> Carried to Collection Section No. 2 Bill No. 14 Plumbing and Drainage	9 2 3 1		
			R	

	<u>Chromium plated brass</u>				
25	Bottle trap as "Cobra 365/50" or equal and approved	No	135		
	<u>Stainless steel</u>				
26	Polyflor ACO shower drain or equal and approved with 110mm vertical outlet stainless steel drain body with removable foul air trap (Code: 405821) including grade 304 stainless steel perforated grating with 150mm square ceramic adaptor top (Code: 97211), connected to 110mm waste pipe and bezel extension (Code: SDP-TE), - all to manufacturers specifications	No	11		
27	Polyflor ACO shower drain or equal and approved with 50mm side outlet stainless steel drain body with removable foul air trap (Code: 405821) including grade 304 stainless steel perforated grating with 150mm square ceramic adaptor top (Code: 405156), connected to 110mm waste pipe and bezel extension (Code: SDP-TE), to suit application bedded in to screed - all to manufacturers specifications	No	4		
	<u>SANITARY PIPE WORK</u>				
	<u>uPVC pipes for use above ground</u>				
28	50mm Pipe	m	932		
29	110mm Pipe	m	582		
	<u>Extra over uPVC pipes for fittings:</u>				
30	50mm Bend	No	188		
31	50mm Access bend	No	211		
32	50mm Access junction	No	13		
33	110mm Bend	No	15		
34	110mm Access bend	No	96		
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35	110mm Access junction	No	102			
36	110 x 50mm Access reducing junction	No	115			
37	110mm Pan connector	No	78			
	<u>WATER SUPPLY</u>					
	<u>Class 1 copper pipes</u>					
38	15mm Pipes	m	1,571			
39	22mm Pipes	m	1,189			
40	28mm Pipes	m	255			
41	35mm Pipes	m	39			
42	42mm Pipes	m	8			
43	54mm Pipes	m	8			
	<u>Extra over Class 1 copper pipes for brass capillary soldered fittings</u>					
44	15mm Fittings	No	846			
45	22mm Fittings	No	923			
46	28mm Fittings	No	80			
47	35 x 28mm Reducer	No	2			
48	42 x 35mm Reducer	No	24			
49	54 x 42mm Reducer	No	6			
50	35mm Elbow	No	8			
51	42mm Elbow	No	8			
52	54mm Elbow	No	7			
53	35mm Tee	No	4			
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54	42mm Tee	No	13	
55	54mm Tee	No	6	
	<u>Extra over Class 1 copper pipes for brass compression fittings</u>			
56	15mm Fittings	No	93	
57	22mm Fittings	No	18	
	<u>"Cobra" taps, valves, etc or equal and approved with and including connectors and adaptors to copper piping</u>			
58	Angle regulating valve "Cobra 832/350F including 350mm braided flexi hose or equal and approved	No	66	
59	Angle regulating valves - COBRA 232/350 or equal and approved	No	93	
60	15mm Isolating valve	No	10	
61	22mm Isolating valve	No	12	
62	28mm Isolating valve	No	2	
63	35mm Isolating valve	No	2	
64	42mm Isolating valve	No	7	
65	15mm "107-15 CP" hose tap	No	9	
66	15mm chrome plated plain bibtap (3309ST) or equal and approved	No	3	
67	15mm chrome plated pillar tap (Code: 505-21B/p-WS/6-nolime) or equal and approved with blue or red indice and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412).	No	26	
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68	Stella 15mm chrome Chrome plated extended bibtap (3306ST/EXT-15) or equal and approved, includes: hot and cold indices, 1/2" BSP male inlet, sliding wall flange, and flow straightener for flow aesthetics	No	34		
69	15mm Stella chrome plate basin mixer tap (3294ST-15) or equal and approved	No	42		
70	15mm chrome plated wall mounted mixer (Code: 515/055-21) with aerated swan neck swivel spout, fixed centre bent inlet connections and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412)	No	13		
71	15mm Chrome plated one Hole sink mixer with overarm swivel spout, Mounting kit and Flexible Connection Tubes (3396/ST). Includes: aerated swivel outlet, 1/2" BSP female inlets, mounting kit, and 2 x 1/2" female iron 400mm long flexible inlets. SANS 226 Type 2, DZR brass	No	8		
72	Carina 15mm chrome sink mixer (Code: 171/041CA and S-041) with overarm swivel outlet and adjustable flanges (BS 5412). Includes: 1/2" BSP male inlets, and 1/2" heavy pattern/low resistance for low pressure or high water demand installations, manufactured in accordance with SANS 226:2004 Type 1.	No	3		
73	Cobra Watertech exposed urinal chrome plated Junior Econo Flushmaster flushvalve (code: KF8.112) with non-hold open feature, galvanised steel undertile box with stainless steel faceplate and chasis, palm press button, 22mm diameter copper urinal tailpipe and 20mm "Ball-o-Stop" control inlet	No	24		
74	Cobra Watertech exposed WC chrome plated Junior Flushmaster flushvalve (code: KF4.213) with non- hold open feature, vacuum breaker, back entry flushpipe, galvanised steel undertile box with stainless steel faceplate, palm press button, rubber pan connector and 32mm "Ball-o-Stop" control inlet	No	78		
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75	Exposed WC chrome plated Junior Flushmaster flushvalve (code: FJ2.210) with non- hold open feature, vacuum breaker, back entry flushpipe, galvanised steel undertile box with stainless steel faceplate, palm press button, rubber pan connector and 32mm "Ball-o-Stop" control	No	9		
76	Shower cubicle set comprising 2X Cobra Watertech Stella chrome Chrome plated shower under wall stop taps (3338ST-15)Includes: 15mm copper inlets, sliding wall flange, and extra indice with temperature indicator. SANS 226 Type 2, DZR brass, JASWIC-listed Cobra Watertech shower arm (026) shower ROSE (KP2.51)Includes: balljoint connector, self-cleaning spray nozzle (30mm diameter), and 1/2" BSP female inle	m	12		
77	15mm Chromium plated STRATA built-in thermostatic shower mixer with cover plate (SA-862-MEDI)	No	2		
78	Shower set comprising 15mm Chrome plated wall elbow outlet for shower hose connection (AP8.311). Includes: wall outlet elbow, and 1/2" male inlet x 1/2" male outlet, handshower (007V/CP VARELLA), flexible tube (008/7 1.25M) and wall rail (002/1- CP) Includes: removable water-saving insert, and 1/2" BSP male inlet. Spray functions include classic jet and champagne spray.	No	1		
79	Cobra c-017 handshower with diverter for aerated flow or handspray used in conjunction withIsca 7940/CH c.p deck mounting pull out set complete with Cobra heavy duty hose and adaptor 008CO to handshower.	No	1		
	<u>"Broen" or equal and approved</u>				
80	Broen Bench Mounted one hole mixer with swivel spout and detachable nozzle (On. 18 510.009)	No	1		
81	Broen Redline double head emergency eye shower including bracket for wall mount (NO. 17 715.000), connected to 15mm water supply. Installed strictly to manufacturers specifications	No	1		
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<u>"Walker Crossweller" or equal and approved</u>					
82	STANDARD Rada 320 oem hose station complete with rada 320oem thermostatic hot/ Cold water mixer valve, 15meters 20 mm hose, hose rack and hose trigger gun as by Walker Crossweller. Installed strictly to manufacturers specifications.	No	1		
<u>VALVE BOX</u>					
83	400 x 400 x 150mm Powder coated standard under ceiling valve box	No	12		
<u>IN LINE PUMPS (Refer Engineer's specification)</u>					
84	Salmson SXM 32-35 or other approved 0.3 l/s @ 30kPA in line water circulating pump HWRP-1 complete including temperature sensor to be installed upstream, flange or screw connections, flexible connections, holding bracket, all adaptors, etc	No	8		
85	1.5Kw Inline water heater	No	8		
<u>GEYSERS ETC.</u>					
<u>"Zip Hydroboil" boiling water heater or equal and approved fixed to wall including all connections</u>					
86	7.5 Litre unit	No	2		
<u>Hot water cylinder</u>					
87	150 Litre Approved geyser complete including draincock and safety valve all in accordance with engineers drawing STD-NO1	No	8		
88	12Kw Heat pump including 1000Litre storage container, control panel, completely installed	No	1		
<u>Sundries</u>					
89	Geyser tray	No	8		
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	<u>FIRE APPLIANCES ETC</u>				
90	"Everyway" hose reel or equal and approved complete with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	20		
91	Fibre glass cabinet to suit above hose reel, fixed to brickwork or concrete	No	20		
92	4.5kg CO2 FE fire extinguisher including brackets for wall mounting	No	53		
93	Novec 1230 Gas Fire suppression system (98kg)	No	5		
94	Fire blanket	No	1		
	<u>WATER SUPPLIES TO FIRE APPLIANCES</u>				
	<u>Galvanised mild steel pipe</u>				
95	25mm Pipes	m	77		
96	50mm Pipes	m	124		
	<u>Extra over galvanised pipe for galvanised mildsteel pipe fittings</u>				
97	25mm Fittings	No	86		
98	28mm Galvanized mild steel nipple	No	20		
99	28mm Galvanized mild steel union	No	20		
100	50mm Flanged adaptor	No	15		
101	50mm to 25mm reducer	No	13		
102	50mm Elbow	No	29		
103	50mm Tee	No	8		
	<u>Sundries</u>				
104	Painted fire extinguisher backboard	No	53		
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105	Paint galvanised mildsteel pipe not exceeding 50mm diameter	m	50			
	<u>TESTING</u>					
106	Provide all necessary apparatus, water, etc. and allow for testing the whole of the plumbing and drainage work in Parts and Sections as completed and/or handed over to the satisfaction of the Principal Agent and Local Authorities. All defective work is to be taken out and replaced at the Contractor's expense and the whole retested until found perfect.		Item			
	<u>CHASES, SLEEVES, HOLES, ETC. INCLUDING MAKING GOOD</u>					
107	Chase in wall for pipe not exceeding 50mm diameter	m	3,254			
108	Chase in wall for pipe not exceeding 100mm diameter	m	382			
109	Hole for pipe not exceeding 100mm diameter through 110mm wall	No	136			
110	Hole for pipe not exceeding 100mm diameter through 220mm wall	No	16			
	<u>Core drilling of holes for pipes not exceeding 50mm diameter through reinforced concrete:</u>					
111	Slab, beam, wall, etc. not exceeding 250mm thick	No	103			
	<u>Core drilling of holes for pipes exceeding 50mm and not exceeding 100mm diameter through reinforced concrete</u>					
112	Slab, beam, wall, etc. not exceeding 250mm thick	No	119			
	<u>Core drilling of holes for pipes exceeding 100mm and not exceeding 150mm diameter through reinforced concrete</u>					
113	Slab, beam, wall, etc. not exceeding 250mm thick	No	86			
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Item No		Quantity	Rate	Amount	
	<u>SECTION NO. 2</u>				
	<u>BILL NO. 15</u>				
	<u>PAINTING</u>				
	<u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>PAINT SPECIFICATIONS</u>				
	<u>ON FLOATED PLASTER AND SMOOTH CONCRETE</u>				
	All painting shall be done in accordance with "Plascon" specifications unless otherwise described				
	<u>Prepare and apply one coat Plascon Professional Plaster Primer (PP700) or equal and approved and two coats Plascon Wall & All (WAA) paint or equal and approved colour white or pastel on</u>				
1	Internal plastered walls, columns, recessed bands, etc.	m2	7,440		
2	Ceilings	m2	16		
	<u>Prepare and apply one coat Plascon Professional Plaster Primer (PP700) or equal and approved and two coats Plascon Wall & All (WAA) paint or equal and approved colour dark on</u>				
3	Internal plastered walls, columns, recessed bands, etc.	m2	2,390		
	Carried to Collection			R	
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4	<u>Prepare and apply one coat Plascon Professional Plaster Primer (PP700)" or equal and approved and two coats Plascon Velvaglo Satin (VLO) paint or equal and approved white or pastel on</u>				
	Internal plastered walls, columns, recessed bands, etc.	m2	1,350		
	<u>Prepare and apply one coat Plascon Plaster Primer (UC 56) or equal and approved and two coats Wall & All (WAA 1) paint or equal and approved on</u>				
	Ceilings	m2	767		
	<u>EPOXY PAINT</u>				
	<u>Prepare and apply 2-part Sikafloor Garage epoxy water based coloured coating or equal and approved strictly to manufacturers specification on</u>				
	Internal plastered walls, columns, recessed bands, etc.	m2	196		
	<u>ON PLASTER BOARD</u>				
	<u>Prepare and apply one coat Plascon Professional Gypsum & Plaster Primer (PP700)" or equal and approved, one coats Plascon Wall & All (WAA) Pure Acrylic paint or equal and approved thinned 20% and one coat Plascon Wall & All Pure Acrylic (WAA) paint or equal and approved on</u>				
7	Flush plastered ceilings and cornices.	m2	4,346		
8	Flush plastered bulkheads.	m2	477		
	<u>ON FIBRE CEMENT</u>				
	<u>Prepare and apply one coat Plascon Professional Gypsum & Plaster Primer (PP700) or equal and approved, one coats Plascon Wall & All (WAA) Pure Acrylic paint or equal and approved thinned 20% and one coat Plascon Wall & All Pure Acrylic (WAA) paint or equal and approved on</u>				
9	Fibre cement ceilings	m2	149		
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	<u>Prepare and apply one Plascon Professional Gypsum and Plaster Primer (PP700) or equal and approved, one coat Plascon Wall & All Pure Acrylic (WAA) paint thinned with 20% or equal and approved and one coat Plascon Wall & All (WAA) pure acrylic paint on</u>				
10	Fibre cement eaves closure ceilings	m2	1,361		
	<u>ON METAL</u>				
	<u>Prepare and apply one coat galvanised iron primer (GIP) or equal and approved and two coats Plascon Velvago Satin (VLO) paint or equal and approved on</u>				
11	Door frames.	m2	413		
12	Structural steel members	m2	1,780		
13	Rails, bars, pipes, etc. not exceeding 300mm girth.	m	487		
	<u>ON WOOD</u>				
	<u>Prepare and apply one coat Plascon Woodcare pretreatment (WWP 1), one coat wood primer (UC2) and two coats Velvago Satin (VIO) paint or equal and approved on</u>				
14	Doors.	m2	869		
	<u>VESUS PAINT SPECIALISTS</u>				
	<u>Versus Textured Paint (RC) (011 885 3136)</u>				
	<u>One coat Versus S.P Primer pure acrylic emulsion water based or equal and approved and two coats Versus Textured paint (RC) or equal and approved all in accordance with manufacturer's specification on</u>				
15	On external plastered walls	m2	1,848		
	<u>Versus Aqua Ripple Smooth</u>				
Carried to Collection Section No. 2 Bill No. 16 Painting				R	

16	<u>One coat Versus S.P Primer pure acrylic emulsion water based or equal and approved and two coats Versus Aqua Ripple paint with ripple roller or equal and approved all in accordance with manufacturer's specification on</u> On internal plastered walls m2 3,832 Carried to Collection Section No. 2 Bill No. 16 Painting				
			R		

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Bill No	SECTION SUMMARY - Building Works	Page No		Amount	
1	Foundations	167			
2	Concrete Formwork and Reinforcement	176			
3	Masonry	182			
4	Waterproofing	186			
5	Roof Covering	191			
6	Carpentry	199			
7	Ceilings, Partitions and Access Flooring	211			
8	Floor Coverings, Wall Linings, etc	222			
9	Ironmongery	265			
10	Structural Steelwork	285			
11	Metalwork	350			
12	Plastering	356			
13	Tiling	360			
14	Plumbing and Drainage	377			
15	Glazing	378			
16	Painting	383			
	Carried to Final Summary		R		
	Section No. 2				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u> <u>BILL NO. 1</u> <u>GENERAL SITEWORKS</u> <u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u> <u>SUPPLEMENTARY PREAMBLES</u> Descriptions and PreamblesTenderers are referred to Trades to follow hereafter for preambles and full descriptions of materials and items not fully described in this Trade and which shall apply equally to work in this Trade, unless otherwise described. Roadbed prep in-situ material shall not be subjected to traffic loads, including plant in-situ material shall remain undisturbed and shall be compacted with a static weight roller Sub baseSub base shall be imported onto the roadbed by end tipping. No haulage vehicles shall encroach on the compacted roadbed. All references to SABS 1200 is purely for technical specification. Measurement and payment for this work will be in terms of the South African Standard System for Measuring Building Work. Trade Names and Proprietary Products:All descriptions or clauses where trades names or proprietary products are specified, are deemed to include the phrase "or equal and approved".			
	Carried to Collection		R	
	Section No. 3 Bill No. 1 General Siteworks			

It would be a requirement for the contractor to prepare / supply samples / panels of all items herein specified at the commencement of relevant trades to serve as officially approved quality reference standards <u>Carting away of excavated material</u> Descriptions of carting away of excavated material shall be deemed to include for bulking and loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the site. <u>SITE CLEARANCE, ETC.</u> <u>Site clearance</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	121,300		
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m3	12,130		
<u>REMOVAL OF TREES ETC</u>					
<u>Taking out and removing, grubbing up roots and filling in holes</u>					
3	Tree stump exceeding 200mm and not exceeding 500mm girth	No	14		
4	Tree stump exceeding 500mm and not exceeding 1000mm girth	No	12		
5	Tree stump exceeding 1000mm and not exceeding 2000mm girth	No	8		
<u>BULK EXCAVATION, FILLING, ETC</u>					
<u>Open face excavation in earth over sloping site</u>					
6	Open face excavation	m3	17,036		
Carried to Collection				R	
Section No. 3 Bill No. 1 General Siteworks					

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	<u>Excavation in earth</u>				
7	Not exceeding 2m deep	m3	10,881		
	<u>Extra over bulk excavation in earth for excavation in</u>				
8	Soft rock	m3	852		
9	Hard rock	m3	426		
	<u>Extra over all excavations for carting away</u>				
10	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	1,887		
	<u>Keeping excavations free of water</u>				
11	Keeping excavations free of all water other than subterranean water		Item		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site (not compacted)</u>				
12	Over site	m3	15,149		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>				
13	Over site to form platforms	m3	10,881		
	<u>SLEEVES</u>				
	<u>UPVC SLEEVES</u>				
14	110mm sleeves laid in ground not exceeding 1m deep	m	120		
15	160mm sleeves laid in ground not exceeding 1m deep	m	90		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 1				
	General Siteworks				

16	<u>Prescribed density tests on filling:</u> Note : Prices for soil tests must be included in the contractor's rates for earthworks items. Additional soil tests to be carried out as directed by the Engineer: Modified AASHTO density tests. No 205 Carried to Collection Section No. 3 Bill No. 1 General Siteworks				
			R		

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Item No		Quantity	Rate	Amount	
	<u>SECTION NO. 3</u>				
	<u>BILL NO. 2</u>				
	<u>ROADS, PARKING, ETC</u>				
	<u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Carting away of excavated material:</u>				
	Descriptions of carting away of excavated material shall be deemed to include for bulking and loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the site.				
	<u>EARTHWORKS</u>				
	<u>Bulk excavation, filling, etc.:</u>				
1	Open face excavation in compacted earth to reduce levels not exceeding 2m deep and stock pile on site within a 200m radius in accordance with the Engineers instruction.	m3	25,289		
2	Earthfilling obtained from excavations and/or stock piles on site including hauling from perimeter of excavation or stock pile and compact to 98% modified AASHTO density in 150mm thick layers.	m3	25,289		
	<u>Base course:</u>				
3	150mm Thick selected natural gravel (Type C4 from commercial sources) including stabilization with 3% cement supplied by the Contractor and spread, level, water and compact to 98% modified AASHTO density and trim to level.	m3	2,709		
	Carried to Collection			R	
	Section No. 3 Bill No. 2 Roads, Parking, Etc				

	<u>Sub-base course:</u>				
4	150mm Thick selected natural gravel (Type G5 from commercial sources) supplied by the Contractor and spread, level, water and compact to 95% modified AASHTO density and trim to level.	m3	4,878		
	<u>Compaction of surfaces, etc</u>				
5	Compaction of ground surface under paving, etc including scarifying to a depth of 150mm, breaking down oversized material and compacting to 93% modified "AASHTO" density	m2	32,520		
	<u>Soil insecticide</u>				
6	Under surface beds, paving, etc. including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	32,520		
	<u>Prescribed density tests on filling</u>				
7	"Modified AASHTO Density" test	No	30		
	<u>PAVING</u>				
	Paving is to be laid in accordance with SABS 1200MJ, SABS 1058 and the Concrete Masonry Association's specifications.				
	Paving is to be laid in patterns on 25mm (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere).				
	Clean sand is to be swept into joints between roadstones.				
	<u>200 x 100 x 70mm thick Inca DZZ70 exposed aggregate (granite mixed with table mountain sandstone) standard interlocking precast concrete pavers to match existing, bedded on and including 25mm thick bed of river sand:</u>				
8	Paving to roads, parking areas, etc. to falls including any consequent cutting	m2	18,058		
	Carried to Collection			R	
	Section No. 3 Bill No. 2 Roads, Parking, Etc				

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9	Extra for edge blocks including mass concretehaunching, etc.	m	2,683			
	<u>200 x 100 x 60mm thick standard interlocking precast concrete pavers to match existing, bedded on and including 25mm thick bed of river sand:</u>					
10	Paving to pavements, sidewalks, etc. to falls including any consequent cutting	m2	2,437			
11	Extra for edge blocks including mass concretehaunching, etc.	m	801			
	<u>60mm Bosum interlocking Concrete block paving composed of 60mm thick Kalahari coloured interlocking precast concrete blocks bedded on and including 25mm thick bed of river sand:</u>					
12	Paving to pavements, sidewalks, etc. to falls including any consequent cutting	m2	172			
13	Extra for edge blocks including mass concretehaunching, etc.	m	184			
	<u>Paving of 50mm Corobrik Burgundy paving bricks with butt joints on 25mm thick river sand bed with sand and cement mixture swept into joints and hosed down including preparation of ground or filling</u>					
14	Paving to pavements, sidewalks, etc. to falls including any consequent cutting	m2	9,926			
15	Extra for edge blocks including mass concretehaunching, etc.	m	3,305			
	<u>Paving of 65mm Corobrik Burgundy paving bricks with butt joints on 25mm thick river sand bed with sand and cement mixture swept into joints and hosed down including preparation of ground or filling</u>					
16	Paving to pavements, sidewalks, etc. to falls including any consequent cutting	m2	616			
Carried to Collection				R		
Section No. 3 Bill No. 2 Roads, Parking, Etc						

17	Extra for edge blocks including mass concretehaunching, etc.	m	154		
	<u>Lafarge Artivia concrete 125mm thick installed all in accordance with the manufacturers specification, including expansion joints and joint fillers</u>				
18	Concrete laid in panels	m2	1,209		
	<u>25mPa concrete paving 125mm thick laid in panels including powerfloating and joint sealers</u>				
19	Concrete laid in panels	m2	102		
	<u>Precast concrete curbing</u>				
20	Fig 8 Kerbing including concrete backing	m	1,426		
21	Fig 3 Kerbing including concrete backing	m	1,298		
22	Channel formed of two Fig14 kerb laid flat	m	306		
23	Channel formed of oneFig14 and one fig 8 kerb laid flat	m	326		
	<u>ROAD MARKING</u>				
24	100mm Wide lines (broken or unbroken) with an approved road marking paint	m	8,500		
25	300mm Wide lines (broken or unbroken) with an approved road marking paint	m	3,500		
26	Special character symbols with an approved road marking paint.	m2	300		
Carried to Collection				R	
Section No. 3 Bill No. 2 Roads, Parking, Etc					

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Section No. 3 Bill No. 2 Roads, Parking, Etc <u>COLLECTION</u> Total Brought Forward from Page No.	Page No	Amount
	390	
	391	
	392	
	393	
Carried Forward to Summary of Section No. 3		
Section No. 3 Bill No. 2 Roads, Parking, Etc		

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 3</u>			
	<u>STORMWATER, SOIL DRAINAGE AND WATER SUPPLY</u>			
	<u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u>			
	<u>Stone pitching consisting of 125mm 20mPa concrete and 150mm diameter intermittent stone horfell packing with 20mm gaps between stones</u>			
1	750mm wide dished channel	m	185	
	<u>UPVC pipes laid in ground</u>			
2	160mm Pipes laid not exceeding 1m deep	m	210	
3	Ditto, exceeding 1m and not exceeding 2m	m	155	
	<u>UPVC fittings</u>			
4	160mm bend	No	49	
5	160mm junction	No	54	
6	160mm Rodding eye	No	18	
	<u>Subsoil drain formed of slotted pipe, bidum around 300 x 300mm stone filling including excavation and backfilling</u>			
7	110mm Subsoil pipe	m	352	
8	160mm subsoil pipe	m	265	
	<u>UPVC fittings</u>			
9	160mm End cap	No	20	
	Carried to Collection			
	Section No. 3			
	Bill No. 3			
	Stormwater Drainage, Soil Drainage and Water Suppl			

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10	160 x 110mm junction	No	20		
11	160mm Junction	m	4		
12	160mm Rodding eye	No	4		
	<u>Precast concrete pipes laid in ground:</u>				
13	600mm Diameter precast reinforced concrete pipe to SABS 677 Type SC Class 100D with spigot and socket joints including laying in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth 1200mm wide exceeding 1000mm but not exceeding 2000mm deep and backfilling to 95 modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	10		
14	Ditto, exceeding 1000mm but not exceeding 2000mm deep.	m	17		
15	Ditto, exceeding 2000mm but not exceeding 3000mmdeep.	m	98		
16	Ditto, exceeding 3000mm but not exceeding 4000mmdeep.	m	18		
17	450mm Diameter precast reinforced concrete pipe to SABS 677 Type SC Class 100D with spigot and socket joints including laying in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth 1200mm wide not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewateringof trenches, etc.	m	35		
18	Ditto, exceeding 1000mm but not exceeding 2000mm deep.	m	62		
19	Ditto, exceeding 2000mm but not exceeding 3000mmdeep.	m	157		
	Carried to Collection			R	
	Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Suppl				

Provisional Bills of Quantities
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20	Ditto, exceeding 3000mm but not exceeding 4000mmdeep.	m	89		
21	375mm Diameter precast reinforced concrete pipe to SABS 677 Type SC Class 100D with spigot and socket joints including laying in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth 1200mm wide exceeding 1000mm but not exceeding 2000mm deep and backfilling to 95 modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	122		
22	Ditto, exceeding 1000mm but not exceeding 2000mm deep.	m	298		
23	Ditto, exceeding 2000mm but not exceeding 3000mmdeep.	m	67		
24	Ditto, exceeding 3000mm but not exceeding 4000mmdeep.	m	5		
25	300mm Diameter precast reinforced concrete pipe to SABS 677 Type SC Class 100D with spigot and socket joints including laying in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth 1200mm wide not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	252		
26	Ditto, exceeding 1000mm but not exceeding 2000mm deep.	m	652		
27	Ditto, exceeding 2000mm but not exceeding 3000mmdeep.	m	386		
28	Ditto, exceeding 3000mm but not exceeding 4000mmdeep.	m	7		
Carried to Collection				R	
Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Suppl					

	<u>The following in pre-fabricated manholes:</u> <u>Excavate in compacted earth for and including circular type precast concrete manhole formed of 1420mm x 1420mm x 150mm thick 25Mpa concrete slab with manhole formed of 1000mm diameter (internally) precast concrete rings with joints sealed with bituminous putty with and including precast concrete cover slab 150mm thick and 3 No. precast concrete spacer rings 750mm diameter with opening for and including heavy duty road type manhole cover and lockable frame as type 4 set in cement mortar and sealed in tallow and with 25Mpa concrete benching in bottom floated smooth with falls to and including 150mm vitrified clay channels and finished on all exposed surfaces with 25mm thick granolithic with angles rounded including all necessary excavation, backfilling, carting away, dewatering, formwork, etc.</u>					
29	Manhole not exceeding 1000mm deep.	No	11			
30	Manhole exceeding 1000mm but not exceeding 1500mm deep.	No	9			
31	Manhole exceeding 1500mm but not exceeding 2000mm deep.	No	13			
32	Manhole exceeding 2000mm but not exceeding 2500mm deep.	No	5			
Carried to Collection Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Supply						

	<u>Excavate in compacted earth for and including circular type precast concrete manhole formed of 1095mm x 1095mm x 150mm thick 25Mpa concrete slab with lower chamber formed of 1000mm diameter (internally) precast concrete rings with joints sealed with bituminous putty with 3 No. precast concrete spacer rings 750mm diameter and with 25Mpa concrete benching in bottom floated smooth with falls to and including 150mm vitrified clay channels and finished on all exposed surfaces with 25mm thick granolithic with angles rounded and upper chamber formed of 675mm diameter (internally) precast concrete rings with joints sealed with bituminous putty with and including precast concrete cover slab 150mm thick and 1 No. precast concrete spacer ring 750mm diameter with opening for and including heavy duty road type manhole cover and lockable frame as type 4 set in cement mortar and sealed in tallow including all necessary excavation, backfilling, carting away, dewatering, formwork, etc.</u>				
33	Manhole exceeding 2500mm but not exceeding 3000mm deep.	No	7		
34	Manhole exceeding 3000mm but not exceeding 3500mm deep.	No	6		
Carried to Collection					R
Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Suppl					

<u>Sumps, catch-pits, inspection chambers, kerb inlets, etc.:</u>					
35	Excavate in compacted earth for and build kerb inlet catchpit size 2780 x 1000 x 1450mm deep internally to invert with one brick wall sides in engineering bricks on and including 25Mpa insitu concrete base 150mm thick with ref 245 mesh reinforcing, rendered smooth internally in 1:5 cement mortar, benching up bottom in 25Mpa concrete finished off smooth and 75mm thick 25Mpa concrete cover slab with ref 245 mesh reinforcing size 3000 x 1323mm on 80 x 80 x 5mm angle section frame including leaving or forming opening size 1000 x 170mm high in wall for inlet formed of a 75mm thick 25Mpa concrete base size 1000 x 500mm wide set sloping and 600mm diameter hole for outlet pipe including all formwork, reinforcing, backfilling, compacting, etc.	m	51		
<u>THE FOLLOWING IN STORMWATER POND</u>					
<u>Open face excavation in earth over sloping site</u>					
36	Open face excavation	m3	2,928		
<u>Extra over all excavations for carting away</u>					
37	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	2,024		
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>					
38	Over site to pond embankments	m3	904		
<u>Clear river sand filling</u>					
39	Filling to bottom of pond	m3	480		
<u>Keeping excavations free of water</u>					
40	Keeping excavations free of all water other than subterranean water	Item			
Carried to Collection				R	
Section No. 3					
Bill No. 3					
Stormwater Drainage, Soil Drainage and Water Suppl					

	<u>Pond structures</u>				
41	125mm 25MPa concrete apron including formwork and 193 mesh reinforcing	m2	85		
42	Stone pitching consisting of 125mm 20mPa concrete and 150mm diameter intermittent stone horfell packing with 20mm gaps between stones	m2	195		
43	Pond headwall as per detail on drawing no P3086-004-100	No	1		
44	Pond outlet structure as per detail on drawing no P3086-004-100	No	1		
45	Pond stilling basin and apron as per detail on drawing no P3086-004-100	No	1		
46	Pond non return flap as per detail on drawing no P3086-004-100	No	1		
47	Gabion wall formed of "Gabion Baskets" or equal approved 2.7mm diameter Class A galvanised 80 x 100mm hexagonal woven gabion mesh baskets, size 500 x 1000 x 500mm high with a minimum density of 1,6 tons/m ³ , infilled with and including selected clean, hard, unweathered grey granite rock, constructed & installed in strict accordance with SANS1580:2005, SANS1200DK & the manufacturer's instructions:	m2	68		
	<u>GABIONS</u>				
	<u>Gabion wall formed of "Gabion Baskets" or equal approved 2.7mm diameter Class A galvanised 80 x 100mm hexagonal woven gabion mesh baskets, size 1000 x 1000 x 1000mm high with a minimum density of 1,6 tons/m³, infilled with and including selected clean, hard, unweathered grey granite rock, constructed & installed in strict accordance with SANS1580:2005, SANS1200DK & the manufacturer's instructions:</u>				
48	1000mm Wide wall	m2	350		
Carried to Collection				R	
Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Supply					

49	1000mm Wide wall circular on plan	m2	78		
	<u>STORMWATER BERMS</u>				
	<u>Earthfilling obtained from excavations and/or stockpiles on site including hauling, spread, level, water and compact to 90% Mod. AASHTO density in layers not exceeding 150mm thick</u>				
50	Filling to embankment or berm at not exceeding 60 degree slope.	m3	666		
	<u>Excavation other than bulk</u>				
51	Excavate in compacted earth not exceeding 2m deep for trenches, ground beams, etc	m3	85		
	<u>SOIL DRAINAGE</u>				
	<u>uPVC pressure piping to SABS 966 with solvent welded joints (Diameters given are outside diameters)</u>				
52	160mm Diameter Class 9 structured wall pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth 1000mm wide exceeding 1000mm but not exceeding 2000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	252		
53	160mm Diameter Class 9 structured wall pipe laid in existing trenches exceeding 1000mm but not exceeding 2000mm deep (excavation, backfilling, etc. measured elsewhere).	m	596		
	<u>Extra on uPVC pipes for fittings:</u>				
54	160mm End cap	No	13		
55	160mm Rodding eye	No	2		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 3				
	Stormwater Drainage, Soil Drainage and Water Supply				

56	160mm Y Junction	No	18		
57	160mm Bend	No	29		
58	160mm Access junction	No	17		
<u>The following in pre-fabricated manholes:</u> <u>Excavate in compacted earth for and including circular type precast concrete manhole formed of 1420mm x 1420mm x 150mm thick 25Mpa concrete slab with manhole formed of 1000mm diameter (internally) precast concrete rings with joints sealed with bituminous putty with and including precast concrete cover slab 150mm thick and 3 No. precast concrete spacer rings 750mm diameter with opening for and including heavy duty road type manhole cover and lockable frame as type 4 set in cement mortar and sealed in tallow and with 25Mpa concrete benching in bottom floated smooth with falls to and including 150mm vitrified clay channels and finished on all exposed surfaces with 25mm thick granolithic with angles rounded including all necessary excavation, backfilling, carting away, dewatering, formwork, etc.</u>					
59	Manhole exceeding 1500mm but not exceeding 2000mm deep.	No	6		
60	Manhole exceeding 2000mm but not exceeding 2500mm deep	No	9		
<u>Inspection chambers, etc.</u>					
61	275 x 275mm "ABC" cast iron bent cleaning eye cover and frame as per SABS 558 Type 14A jointed to top of 160mm diameter pipe including cement concrete surround size 450 x 450 x 210mm.	No	4		
<u>WATER RETICULATION</u>					
Carried to Collection				R	
Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Supply					

	<u>HDPE polyethelene Class 12 pipe with O-ring screw type fittings:</u>				
62	160mm Diameter Class 12 pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	652		
63	Ditto, but in existing trenched, backfilling etc measured elsewhere	m	157		
64	110mm Diameter Class 12 pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	202		
65	Ditto, but in existing trenched, backfilling etc measured elsewhere	m	22		
66	75mm Diameter Class 12 pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	42		
67	75mm Diameter Class 12 pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	72		
Carried to Collection				R	
Section No. 3					
Bill No. 3					
Stormwater Drainage, Soil Drainage and Water Supply					

	<u>Fittings including concrete thrust blocks</u>				
68	160mm Bend	No	18		
69	160mm Tee	No	12		
70	160 to 110mm reducer	No	9		
71	160 to 75mm reducer	No	3		
72	110 to 75mm reducer	No	6		
	<u>Valves, etc</u>				
73	160mm Scouring valve	No	1		
74	160mm Isolating Valve	No	2		
75	110mm Isolating valve	No	5		
76	160mm Air valve	No	2		
	<u>THE FOLLOWING IN BULK WATER STORAGE</u>				
	<u>Dwarf walls</u>				
	<u>"Soft excavation" not exceeding 2 metres deep below natural or reduced ground level for:</u>				
77	Trenches	m3	114		
	<u>Extra over all excavations for carting away</u>				
78	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	57		
	<u>Risk of collapse of excavations</u>				
79	Allow for risk of collapse to sides of trench and hole excavations not exceeding 1,5 m deep	m2	285		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 3				
	Stormwater Drainage, Soil Drainage and Water Suppl				

80	<u>Keeping excavations free of water</u>				
	Keeping excavations free of all water other than subterranean water		Item		
<u>REINFORCED CONCRETE</u>					
<u>30mPa Concrete cast against excavated surfaces in:</u>					
81	Strip footings	m3	57		
<u>30mPa Concrete:</u>					
82	Dwarf walls	m3	56		
<u>FORMWORK</u>					
<u>Smooth formwork to:</u>					
83	Sides of Dwarf walls	m2	447		
<u>STEEL REINFORCEMENT</u>					
<u>Mild steel reinforcement to structural concrete work</u>					
84	Various Diameter bars	t	0.79		
<u>High tensile steel reinforcement to structural concrete work</u>					
85	Various Diameter bars	t	7.12		
<u>CONCRETE SUNDRIES</u>					
<u>50mPa non shrink gout</u>					
86	50mm thick x 100mm wide on top of concrete dwarf walls, including forming of mitred top	m	238		
<u>METALWORK</u>					
Carried to Collection				R	
Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Suppl					

	<u>Mild steel</u>				
87	100 x 10mm Flat bar including 200mm lugs at 500mm centres cast into top of concrete	m	238		
	<u>TANKS, ETC</u>				
	<u>Hot dipped galvanised sectional tank complete as per specification:</u>				
88	Galvanised sectional water tank 18 300mm x 16 650mm x 3660mm high completely installed	No	1		
	<u>Valves, etc</u>				
89	80mm Brass gate valve	No	1		
90	100mm Brass gate valve	No	1		
91	200mm Brass gate valve	No	2		
	<u>FIRE WATER RETICULATION</u>				
	<u>HDPE polyethelene Class 12 pipe with O-ring screw type fittings:</u>				
92	160mm Diameter Class 12 pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	827		
93	Ditto, but in existing trenches, backfilling etc measured elsewhere	m	237		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 3				
	Stormwater Drainage, Soil Drainage and Water Supply				

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94	110mm Diameter Class 12 pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	111		
95	Ditto, but in existing trenches, backfilling etc measured elsewhere	m	15		
96	75mm Diameter Class 12 pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	122		
97	75mm Diameter Class 12 pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	10		
<u>Fittings including concrete thrust blocks</u>					
98	160mm Bend	No	14		
99	160mm Tee	No	16		
100	160 to 110mm reducer	No	9		
101	160 to 75mm reducer	No	7		
102	110 to 75mm reducer	No	4		
<u>Valves, etc</u>					
103	160mm Scouring valve	No	1		
Carried to Collection				R	
Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Supply					

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104	160mm Non return valve	No	1			
105	160mm Air valve	No	1			
106	160mm Bulk water meter	No	1			
107	Pendant type booster connection with two 65mm Bayonet couplings with end caps, 150mm x 2400KPA pressure meter	No	1			
108	100mm Fire hydrant including concrete pedestal	No	1			
Carried to Collection Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Suppl						

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Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Supply <u>COLLECTION</u> Total Brought Forward from Page No.				
Carried Forward to Summary of Section No. 3				
Section No. 3 Bill No. 3 Stormwater Drainage, Soil Drainage and Water Supply				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u> <u>BILL NO. 4</u> <u>BOUNDRY WALL, FENCING, ETC</u> <u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u> <u>FENCING</u> <u>Cochrane Standard ClearVu pressed mesh panel fence or equal and approved formed of horizontal and vertical high tensile wire galvanised with Marine Fusion Bond coating with aperture, bolted with vandal resistant bolts and clamping plates to post /frame including Locking Recess Mechanism with sealed end caps with bitumen coated ClearVu underdig or equal and approved pressed mesh panel fencing 2400mm high and including 2400mm long standard recess ClearVu taper locking posts at 3300mm centres size overall 85 x 88 x 4mm thick Marine Fusion Bond coated sealed with UV stabilised polymer end caps and bolted to and including 15MPa/19mm aggregate concrete block 600 x 600 x 650mm deep with vandal resistant bolts and clamping plates including sealed end caps, bolts, double clamping plates, etc. in strict accordance with the manufacturer's instructions:</u>			
1	Fence laid straight	m	616	
2	Fence laid circular on plan	m2	28	
3	60 x 60 x 6mm L section post 3,00m long including 15MPa/19mm aggregate concrete block 600 x 600 x 650mm deep	No	23	
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3			
	Bill No. 4			
	Boundary Walls, Fencing, Etc			

Bill No	<u>SECTION SUMMARY - External Works</u>	Page No		Amount	
1	General Siteworks	389			
2	Roads, Parking, Etc	394			
3	Stormwater Drainage, Soil Drainage and Water Supply	410			
4	Boundary Walls, Fencing, Etc	411			
	Carried to Final Summary		R		
	Section No. 3				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u> <u>BILL NO. 1</u> <u>PROVISIONAL SUMS</u> <u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u> The following sums and amounts are NETT. Under no circumstances may any Provisional Sum or P.C Item be altered. Unless a specific percentage mark up for attendance is indicated in the rate column, the amounts priced by the contractor for attendance against each Provisional Sum shall be deemed to be Lump Sum and shall not be adjusted unless the scope of the sub-contract varies significantly. Provisional Sums contained herein may be omitted or reduced at the employer's sole discretion and the contractor shall not be entitled to claim for any loss by way of reductions or omissions of any discount, or percentage relating to the Provisional Sums or P.C Amounts or any loss of profit related thereto. <u>ALLOW THE FOLLOWING PROVISIONAL SUMS</u> <u>MV INSTALLATION</u> 1 Provide the amount of R6,180,000.00 for the MV installation executed complete 2 Profit on above item 3 Attendance on ditto Carried to Collection Section No. 4 Bill No. 1 Provisional Sums			
		Item		6,180,000.00
		Item		
		Item		
			R	

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	<u>LV INSTALLATION</u>				
4	Provide the amount of R10,933,000.00 for the LV installation executed complete	Item		10,933,000.00	
5	Profit on above item	Item			
6	Attendance on ditto	Item			
	<u>AREA LIGHTING INSTALLATION</u>				
7	Provide the amount of R2,660,000.00 for the area lighting installation executed complete	Item		2,660,000.00	
8	Profit on above item.	Item			
9	Attendance on ditto.	Item			
	<u>SPORTSFIELD LIGHTING INSTALLATION</u>				
10	Provide the amount of R2,239,000.00 for the sportsfield lighting installation executed complete	Item		2,239,000.00	
11	Profit on above item.	Item			
12	Attendance on ditto.	Item			
	<u>ICT SLEEVES & MANHOLE INSTALLATION</u>				
13	Provide the amount of R756,000.00 for the ICT sleeves and manholes installation executed complete	Item		756,000.00	
14	Profit on above item.	Item			
15	Attendance on ditto.	Item			
	<u>PV SOLAR LIGHTING INSTALLATION</u>				
16	Provide the amount of R5,233,000.00 for the PV solar installation executed complete	Item		5,233,000.00	
17	Profit on above item.	Item			
18	Attendance on ditto.	Item			
	Carried to Collection			R	
	Section No. 4				
	Bill No. 1				
	Provisional Sums				

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<u>ELECTRICAL INSTALLATION</u>					
19	Provide the amount of R13,933,000.00 for the electrical installation executed complete	Item		13,933,000.00	
20	Profit on above item.	Item			
21	Attendance on ditto.	Item			
<u>IT & TELECOMS INSTALLATION</u>					
22	Provide the amount of R9,707,000.00 for the IT and telecoms installation executed complete	Item		9,707,000.00	
23	Profit on above item.	Item			
24	Attendance on ditto.	Item			
<u>SECURITY INSTALLATION</u>					
25	Provide the amount of R8,234,000.00 for the security installation executed complete	Item		8,234,000.00	
26	Profit on above item.	Item			
27	Attendance on ditto.	Item			
<u>FIRE DETECTION INSTALLATION</u>					
28	Provide the amount of R1,620,000.00 for the fire detection installation executed complete	Item		1,620,000.00	
29	Profit on above item.	Item			
30	Attendance on ditto.	Item			
<u>AV INSTALLATION</u>					
31	Provide the amount of R12,991,000.00 for the AV installation executed complete	Item		12,991,000.00	
32	Profit on above item.	Item			
33	Attendance on ditto.	Item			
Carried to Collection				R	
Section No. 4					
Bill No. 1					
Provisional Sums					

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<u>HVAC INSTALLATION</u>					
34	Provide the amount of R23,389,000.00 for the HVAC installation executed complete	Item		23,389,000.00	
35	Profit on above item.	Item			
36	Attendance on above item.	Item			
<u>FIRE PROTECTION INSTALLATION</u>					
37	Provide the amount of R2,149,000.00 for the fire protection installation executed complete	Item		2,149,000.00	
38	Profit on above item.	Item			
39	Attendance on above item.	Item			
<u>WET SERVICES INSTALLATION</u>					
40	Provide the amount of R1,907,000.00 for the wet services installation executed complete	Item		1,907,000.00	
41	Profit on above item.	Item			
42	Attendance on above item.	Item			
<u>KITCHEN EQUIPMENT INSTALLATION</u>					
43	Provide the amount of R4,182,000.00 for the kitchen equipment installation executed complete	Item		4,182,000.00	
44	Profit on above item.	Item			
45	Attendance on above item.	Item			
<u>LAUNDRY EQUIPMENT INSTALLATION</u>					
46	Provide the amount of R35,000.00 for the laundry equipment installation executed complete	Item		35,000.00	
47	Profit on above item.	Item			
48	Attendance on above item.	Item			
Carried to Collection				R	
Section No. 4					
Bill No. 1					
Provisional Sums					

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<u>REFRIDGERATION EQUIPMENT INSTALLATION</u>					
49	Provide the amount of R312,000.00 for the refrigeration equipment installation executed complete	Item		312,000.00	
50	Profit on above item.	Item			
51	Attendance on above item.	Item			
<u>SWIMMING POOL EQUIPMENT INSTALLATION</u>					
52	Provide the amount of R2,700,000.00 for the swimming pool equipment installation executed complete	Item		2,700,000.00	
53	Profit on above item.	Item			
54	Attendance on above item.	Item			
<u>PASSENGER LIFTS INSTALLATION</u>					
55	Provide the amount of R1,865,000.00 for the passenger lifts installation executed complete	Item		1,865,000.00	
56	Profit on above item.	Item			
57	Attendance on above item.	Item			
<u>PUMP INSTALLATIONS</u>					
58	Provide the amount of R1,685,000.00 for the pump installations executed complete	Item		1,685,000.00	
59	Profit on above item.	Item			
60	Attendance on above item.	Item			
<u>JOINERY FITTINGS</u>					
61	Provide the amount of R8,500,00.00 for joinery executed complete	Item		8,500,000.00	
62	Profit on above item.	Item			
Carried to Collection				R	
Section No. 4					
Bill No. 1					
Provisional Sums					

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63	Attendance on ditto.	Item			
	<u>SIGNAGE</u>				
64	Provide the amount of R672,000.00 for signage executed complete.	Item		672,000.00	
65	Profit on above item.	Item			
66	Attendance on ditto.	Item			
	<u>LANDSCAPING</u>				
67	Provide the amount of R9,216,000.00 for landscaping executed complete.	Item		9,216,000.00	
68	Profit on above item.	Item			
69	Attendance on ditto.	Item			
	<u>SWIMMING POOL FINISH</u>				
70	Provide the amount of R1,200,000.00 for swimming pool finish executed complete.	Item		1,200,000.00	
71	Profit on above item.	Item			
72	Attendance on ditto.	Item			
	<u>DECORATIVE TREES</u>				
73	Provide the amount of R1,500,000.00 for supply and installation of decorative trees	Item		1,500,000.00	
74	Profit on above item.	Item			
75	Attendance on ditto.	Item			
Carried to Collection				R	
Section No. 4 Bill No. 1 Provisional Sums					

**Provisional Bills of Quantities
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Section No	<u>FINAL SUMMARY</u>		Page No		Amount
1	Preliminaries & General		155		
2	Building Work		384		
3	External Works		412		
4	Provisional Sums		419		
		Sub Total			
5	Contingency				25 000 000,00
		Sub Total			
6	CPAP				35 000 000,00
		Sub Total			
7	ADD: 15% VAT				
	Final Total Carried Front of Tender				
		Carried to Form of Offer		R	