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<p><u>SECTION NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p>The JBCC Series 2000 Principal Building Agreement (March 2005 edition) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>Contractors are referred to the above mentioned documents for the full intent and meaning of each clause thereof</p> <p>These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the above mentioned documents</p> <p>Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"</p> <p><u>PREAMBLES FOR TRADES</u></p> <p>The Model Preambles for Trades (2008 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claim arising from brevity of description of items fully described in the said Model Preambles will be entertained</p> <p>Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles</p> <p>The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles</p> <p><u>PRICING OF PRELIMINARIES</u></p> <p><u>Pricing of Prelims:</u></p> <p>Should the contractor select Option A in terms of clause 10.3 for the purpose of adjustment of these preliminaries, the amount entered in the amount column in these preliminaries is to be divided into one or more of the three categories provided namely Fixed (F), Value Related (V) and Time Related (T)</p> <p><u>SECTION A - PRINCIPAL BUILDING AGREEMENT</u></p> <p><u>Definitions:</u></p>		
1	Clause 1.0 - Definitions and interpretation	Item
<p><u>Objective and preparation:</u></p>		
2	Clause 2.0 - Offer, acceptance and performance	Item
3	Clause 3.0 - Documents	Item
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4	Clause 4.0 - Design responsibility	Item	
5	Clause 5.0 - Employer's agents	Item	
6	Clause 6.0 - Site representative	Item	
7	Clause 7.0 - Compliance with regulations	Item	
8	Without limiting the generality of the provisions of clause 7.0 the contractor's attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the afore mentioned health and safety specification	Item	
9	Clause 8.0 - Works risk	Item	
10	Clause 9.0 - Indemnities	Item	
11	Clause 10.0 - Works insurances	Item	
12	Clause 11.0 - Liability insurances	Item	
13	Clause 12.0 - Effecting insurances	Item	
14	Clause 13.0 - No clause	Item	
15	Clause 14.0 - Security	Item	
	<u>Execution:</u>		
16	Clause 15.0 - Preparation for and execution of the works	Item	
17	Clause 16.0 - Access to the works	Item	
18	Clause 17.0 - Contract instructions	Item	
19	Clause 18.0 - Setting out of the works The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc exist in order that the necessary arrangements may be made for the rectification of any such encroachments	Item	
20	Clause 19.0 - Assignment	Item	
21	Clause 20.0 - Nominated subcontractors	Item	
22	Clause 21.0 - Selected subcontractors	Item	
23	Clause 22.0 - Employer's direct contractors	Item	
24	Clause 23.0 - Contractor's domestic subcontractors	Item	
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	<u>Completion:</u>		
25	Clause 24.0 - Practical completion	Item	
26	Clause 25.0 - Works completion	Item	
27	Clause 26.0 - Final completion	Item	
28	Clause 27.0 - Latent defects liability period	Item	
29	Clause 28.0 - Sectional completion	Item	
30	Clause 29.0 - Revision of the date for practical completion		
	The removal and replacement of materials and/or workmanship which do not conform to specification or drawings shall not constitute grounds for an extension of the construction period nor for an adjustment to the contract value (clause 29.3)	Item	
31	Clause 30.0 - Penalty for noncompletion	Item	
	<u>Payment:</u>		
32	Clause 31.0 - Interim payment to the contractor		
	Materials and goods stored off site shall not be included in the amount authorised for payment	Item	
33	Clause 32.0 - Adjustment to the contract value		
	Clause 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence: "due to no fault of the contractor "	Item	
34	Clause 33.0 - Recovery of expense and loss	Item	
35	Clause 34.0 - Final account and final payment	Item	
36	Clause 35.0 - Payment to other parties	Item	
	<u>Cancellation:</u>		
37	Clause 36.0 - Cancellation by employer - contractor's default	Item	
38	Clause 37.0 - Cancellation by employer - loss and damage	Item	
39	Clause 38.0 - Cancellation by contractor - employer's default	Item	
40	Clause 39.0 - Cancellation - cessation of the works	Item	
	<u>Dispute:</u>		
41	Clause 40.0 - Dispute settlement	Item	
	<u>Substitute provisions:</u>		
42	Clause 41.0 - State clauses	Item	
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	<u>Contract variables:</u>		
43	Clause 42.0 - Pre-tender information Tenderers are referred to the document C1.2 Contract Data for variables pertaining to this contract	Item	
44	Clause 42.0 - Post-tender information The required post-tender information shall be inserted in the agreement after consultation with the contractor	Item	
	<u>SECTION B - PRELIMINARIES</u>		
	<u>Definitions and interpretation:</u>		
45	Clause 1.0 - Definitions and interpretation	Item	
	<u>Documents:</u>		
46	Clause 2.1 - Checking of documents	Item	
47	Clause 2.2 - Provisional bills of quantities	Item	
48	Clause 2.3 - Availability of construction documentation	Item	
49	Clause 2.4 - Interests of agents	Item	
50	Clause 2.5 - Priced documents	Item	
51	Clause 2.6 - Tender submission Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance (C1.1)"	Item	
	<u>The site:</u>		
52	Clause 3.1 - Defined works area The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the Principal Agent on handing over of the site	Item	
53	Clause 3.2 - Geotechnical investigation A copy of the geotechnical investigation report is annexed to these bills of quantities	Item	
54	Clause 3.3 - Inspection of the site Tenderers shall complete the Site Inspection Certificate included in the tender documents and return the same with the tender submission	Item	
55	Clause 3.4 - Existing premises occupied	Item	
56	Clause 3.5 - Previous work - dimensional accuracy	Item	
57	Clause 3.6 - Previous work - defects	Item	
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58	Clause 3.7 - Services - known	Item	
59	Clause 3.8 - Services - unknown	Item	
60	Clause 3.9 - Protection of trees	Item	
61	Clause 3.10 - Articles of value	Item	
62	Clause 3.11 - Inspection of adjoining properties	Item	
	<u>Management of contract:</u>		
63	Clause 4.1 - Management of the works	Item	
64	Clause 4.2 - Programme for the works	Item	
65	Clause 4.3 - Progress meetings	Item	
66	Clause 4.4 - Technical meetings	Item	
67	Clause 4.5 - Labour and plant records	Item	
	<u>Samples, shop drawings and manufacturer's instructions:</u>		
68	Clause 5.1 - Samples of materials	Item	
69	Clause 5.2 - Workmanship samples	Item	
70	Clause 5.3 - Shop drawings	Item	
71	Clause 5.4 - Compliance with manufacturers' instructions	Item	
	<u>Temporary works and plant:</u>		
72	Clause 6.1 - Deposits and fees	Item	
73	Clause 6.2 - Enclosure of the works	Item	
74	Clause 6.3 - Advertising	Item	
75	Clause 6.4 - Plant, equipment, sheds and offices	Item	
76	Clause 6.5 - Main noticeboard	Item	
77	Clause 6.6 - Subcontractors' noticeboard	Item	
	<u>Temporary services:</u>		
78	Clause 7.1 - Location	Item	
79	Clause 7.2 - Water	Item	
80	Clause 7.3 - Electricity	Item	
81	Clause 7.4 - Telecommunication facilities	Item	
82	Clause 7.5 - Ablution facilities	Item	
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	<u>Prime cost amounts:</u>		
83	Clause 8.1 - Responsibility for prime cost amounts	Item	
	<u>Attendance on nominated/selected subcontractors:</u>		
84	Clause 9.1 - General attendance	Item	
85	Clause 9.2 - Special attendance	Item	
86	Clause 9.3 - Commissioning - fuel, water and electricity	Item	
	<u>Financial aspects:</u>		
87	Clause 10.1 - Statutory taxes, duties and levies		
	Provision is made in the summary of these bills of quantities for the inclusion of Value Added Tax (VAT)	Item	
88	Clause 10.2 - Payment of preliminaries	Item	
89	Clause 10.3 - Adjustment of preliminaries	Item	
90	Clause 10.4 - Payment certificate cash flow	Item	
	<u>General:</u>		
91	Clause 11.1 - Protection of the works	Item	
92	Clause 11.2 - Protection/isolation of existing/sectionally occupied works	Item	
93	Clause 11.3 - Security of the works	Item	
94	Clause 11.4 - Notice before covering work	Item	
95	Clause 11.5 - Disturbance	Item	
96	Clause 11.6 - Environmental disturbance	Item	
97	Clause 11.7 - Works cleaning and clearing	Item	
98	Clause 11.8 - Vermin	Item	
99	Clause 11.9 - Overhand work	Item	
100	Clause 11.10 - Instruction manuals and guarantees	Item	
101	Clause 11.11 - As built information	Item	
102	Clause 11.12 - Tenant installations	Item	
	<u>Schedule of variables:</u>		
103	12.1 - Pre-tender information		
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	Information necessary for elections and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that either specific requirements are not required or that the clause is not relevant to this specific contract	Item	
104	12.1.1 - Provisional bills of quantities [clause 2.2] The quantities are provisional - YES	Item	
105	12.1.2 - Availability of construction documentation [clause 2.3] Construction documentation is complete - YES	Item	
106	12.1.3 - Interests of agents [clause 2.4] - NONE	Item	
107	12.1.4 - Defined works area [clause 3.1] - YES The work area will be pointed out by the principal agent to the contractor who will sign written acknowledgement therefore before commencing operations	Item	
108	12.1.5 - Geotechnical investigation [clause 3.2] - YES A Geotechnical Investigation Report is included in this document	Item	
109	12.1.6 - Existing premises occupied [clause 3.4] - YES The school will be full operation during the work and disruption, dust and noise are to be kept to a minimum. Works areas to be clearly demarcated and fenced off	Item	
110	12.1.7 - Previous work - dimensional accuracy [clause 3.5] The contractor shall, within reasonable period after taking possession of the site, but not exceeding ten (10) percent of the construction period or twenty (20) working days whichever is the lesser, check existing levels, lines, profiles and the like affecting the works and satisfy himself as to the dimensional accuracy of work previously executed. The contractor shall forthwith notify the principal agent and request a contract instruction regarding any dimensional inaccuracy found in work previously executed	Item	
111	12.1.8 - Previous work - defects [clause 3.6] The contractor on becoming aware of a defect in work previously executed shall forthwith notify the principal agent requesting a contract instruction regarding such defect	Item	
112	12.1.9 - Services - known [clause 3.7] Existing services and points of connection are shown on the site plan or will be pointed out on the site by the principal agent	Item	
113	12.1.10 - Protection of trees [clause 3.9]		
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	Only those trees and shrubs indicated as such on the drawings shall be removed or cut back. The remainder of the trees and shrubs shall be left undamaged	Item	
114	12.1.11 - Inspection of adjoining properties [clause 3.11]	Item	
115	12.1.11 - Inspection of adjoining properties [clause 3.11] The contractor shall make his own arrangements with the owners of adjoining properties in order to execute the works	Item	
116	12.1.12 - Enclosure of the works [clause 6.2] The contractor shall erect, maintain and remove on completion, hoardings with gantries, fans, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others	Item	
117	12.1.13 - Offices [clause 6.4.3] The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitable insulated and ventilated, provided with electric lighting, and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times	Item	
118	12.1.14 - Main noticeboard [clause 6.5] The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m as type Drawing GEN 063, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines deep blue. All wording shall be inscribed in deep blue painted Helvetica medium lettering. As alternative the notice board as approved by the professional bodies will be allowed. No sub-contractor's individual boards will be allowed on the site	Item	
119	12.1.15 - Subcontractors' noticeboard [clause 6.6] A noticeboard is required - NO	Item	
120	12.1.16 - Water [clause 7.2] Option A (by contractor) YES Option B (by employer - free of charge) NO Option C (by employer - metered) NO	Item	
121	12.1.17 - Electricity [clause 7.3] Option A (by contractor) NO		
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	Option B (by employer - free of charge) NO		
	Option C (by employer - metered) YES	Item	
122	12.1.18 - Telecommunications [clause 7.4]		
	Telephone YES		
	Facsimile NO		
	E-mail NO	Item	
123	12.1.19 - Ablution facilities [clause 7.5]		
	Option A (by contractor) YES		
	Option B (by employer - free of charge) NO	Item	
124	12.1.20 - Protection/isolation of existing/sectionally occupied works [clause 11.2]		
	The contractor shall provide all reasonable temporary measures to protect/isolate the existing and/or section of the occupied works and remove such measures on completion	Item	
125	12.1.21 - Special attendance [clause 9.2] - NO	Item	
126	12.1.22 - Protection of the works [clause 11.1] - YES	Item	
127	12.1.23 - Disturbance [clause 11.5]		
	The contractor shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent		
	The contractor shall execute the works with a minimum of disturbance to adjoining premises, any parts of the works already handed over and the occupants of those premises and/or parts	Item	
128	12.1.24 - Environmental disturbance [clause 11.6] - NO	Item	
129	12.2 - Post-tender information		
	The required post-tender information shall be inserted in the preliminaries after consultation with the contractor	Item	
	<u>SECTION C - SPECIFIC PRELIMINARIES</u>		
	Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item		
130	CONTRACT DRAWINGS		
	The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed		
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	Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent	Item
131	GENERAL PREAMBLES These tender documents "General Specification (PW 371-A) July 2013" and "Particular Specification (PW 371-B) July 2013" which are both obtainable on Public Works website alternatively a copy can be e-mailed on request from the Quantity Surveyor offices, and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used. No claim arising from brevity of description of items fully described in the said Preambles for Trades will be entertained	Item
132	TRADE NAMES Wherever a trade name for any product has been described in the Priced Document , the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for	Item
133	PROPRIETARY BRANDED PRODUCTS The contractor shall take delivery of, handle, store, use apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instruction after consultation with the manufacturer's authorised representative	Item
134	CONFIDENTIALITY The contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all subcontractors and suppliers. Such information shall not be used in any way except in connection with the execution of the works. No information regarding this project shall be published or disclosed without the prior written consent of the employer	Item
135	OVERTIME Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing prior to the execution thereof, that cost for such overtime are to be borne by the employer	Item
136	AS BUILT DRAWINGS The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records	Item
137	WARRANTIES FOR MATERIALS AND WORKMANSHIP	
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	Where warranties for materials are called for, the contractor shall obtain a written warranty, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The warranty shall state that workmanship, materials and installation are warranted for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice to do so. The warranty will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor.	Item
138	SITE INSTRUCTIONS Site instructions issued on site are to be recorded in triplicate in a site instruction book which is to be provided and maintained on site by the contractor	Item
139	NON CESSION OF MONIES The contractor shall not cede nor assign his rights or claims to any monies due or to become due under this contract	Item
140	IMPORTED MATERIALS AND EQUIPMENT Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule for Imported Materials and Equipment WCTD-23 to be completed by tenderer) Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)	Item
141	TESTING OF FLAT ROOF WATERPROOFING FOR WATERTIGHTNESS Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept 'ponded' for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing	Item
142	TESTING OF WINDOWS FOR WATERTIGHTNESS Each window shall be tested for watertightness with water sprayed on by means of a 20mm hosepipe using adequate pressure. If in the opinion of the principal agent, the pressure proves to be inadequate, then the pressure in the hosepipe shall be boosted by means of compressed air or other approved means	Item
143	AUTHORISATION FOR THE TAKING OF PHOTOGRAPHS	
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	<p>The contractor shall obtain prior authorisation from the employer for the making of any sketches or the taking of any photographs of any site, installation, building or civil works belonging to the employer and shall ensure that all personnel, subcontractors and other persons entering the site shall comply with this requirement as well.</p>	
144	<p>HIV/AIDS AWARENESS</p> <p>It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under the two items below hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained</p> <p>The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of Clause A 31 of "Section 1: Preliminaries (Section A)" or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p>	Item
145	<p>AWARENESS WORKSHOPS</p> <p>Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification</p>	Item
146	<p>AWARENESS CHAMPION</p> <p>Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification</p>	Item
147	<p>POSTERS, BOOKLETS, VIDEOS, ETC.</p> <p>Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p>	Item
148	<p>ACCESS TO CONDOMS</p> <p>Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p>	Item
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149	<p>CO-OPERATION OF CONTRACTOR FOR COST MANAGEMENT</p> <p>It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The principal agent undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor shall attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures, as necessary, to all subcontractors</p>	Item
150	<p>MONITORING</p> <p>Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification</p>	Item
151	<p>REPORTING BY CONTRACTOR</p> <p>The contractor is required to complete the attached Contractor's Monthly Report which is to be submitted together with the contractors payment claim. Payment of the contractor is conditional on this information being accurate and timeously provided</p>	Item
152	<p>PLANT RECORDS</p> <p>At the end of each month the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works</p>	Item
153	<p>LOCAL LABOUR</p> <p>Allow for monthly submission of proof of employment of local skilled and unskilled labour to the principal agent.</p> <p>It is a general requirement of this contract that persons normally resident in the locality of the works (local labour) be given preference for employment on the contract. Should adequate and appropriate labour not be available within the locality, other labour may be subject to satisfactory proof being provided that every reasonable endeavour has been made to employ local labour. The contractor shall identify the local community leaders with the purpose of negotiating with them regarding the utilisation of local labour in the construction process. The contractor shall furthermore give preference, wherever possible to the employment of single heads of households, women and yout. The contractor shall, in general, maximise the involvement of the local community.</p> <p>The principal agent shall be empowered to inspect the books and records of the contractor from time to time to ensure that the requirements are met. Should it become apparent that these conditions are not being complied with; the principal agent shall close down the works until the requirements are met. Any work stoppages so occasioned will be for the contractor's account.</p>	Item
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154	<p>LOCAL BUILDING MATERIALS</p> <p>Preference shall be given to the supply of materials produced or manufactured in the Eastern Cape Province provided that:</p> <p>a) Such materials comply in all respects with the specific requirements of PW371 specification</p> <p>b) The availability of such materials shall not adversely affect the desired progress of the specific works</p> <p>c) The use of such materials shall not constitute grounds for any claim for increased cost in respect thereof</p>	Item
155	<p>DISPOSAL SITE-SOLID WASTE/ENVIRONMENTALLY SENSITIVE MATERIALS</p> <p>All disposal of solid waste shall be deposited at an approved disposal site to be located by the contractor. All handling of environmentally sensitive materials such as asbestos, etc., is to be carried out by a registered waste disposal specialist and all laws and bylaws are to be appropriate state body will be required and is to be to the principal agent's approval. Written confirmation of appropriate disposal is to be issued to the principal agent</p>	Item
156	<p>WAIVER OF LIEN</p> <p>The tenderers are notified that he/she shall sign "Waiver of Lien" together with the JBCC Principal Building Agreement Edition 4.1 Code 2101 March 2005</p>	Item
157	<p>OCCUPATIONAL HEALTH AND SAFETY ACT</p> <p>The contractor shall comply with all the requirements set out in the Health and Safety Specification for Construction Work as contained within these tender documents and the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993).</p> <p>It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities.</p> <p>The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p> <p>Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.</p> <p>In addition but not limited to the contractor shall:</p>	
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<u>PRELIMINARIES</u>		
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SECTION NO. 2
REFURBISHMENT

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<p><u>SECTION NO. 2</u></p> <p><u>REFURBISHMENT</u></p> <p><u>BILL NO. 1</u></p> <p><u>ALTERATIONS</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>The Standard Preambles and Notes in the various trade bills are too and do apply equally to this section</p> <p><u>View site:</u></p> <p>Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p><u>Explosives:</u></p> <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated</p> <p><u>General:</u></p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p> <p>Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent</p>				
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	Unit	Quantity	Rate	Amount
<p>Doors, fanlights, fittings, frames, linings, etc. which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehangng, cramping up, re-wedging as required and making good cramps, dowels, etc., and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately</p> <p>Prices for taking out of doors, windows, etc. shall include for removal of all beads, architraves, ironmongery, etc.</p> <p>Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc. and making good floor and wall finishes to match existing</p> <p>With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc., shall be levelled and prepared for raising of brickwork</p> <p>Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary</p> <p>The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc.)</p> <p><u>Temporary barriers, screens, etc. including removal:</u></p> <p>Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p><u>Self - levelling screed:</u></p> <p>To Contractor's expense should Grade 1 variance in F1 above not be achieved. Grind & prime existing surface with self-leveling Tal-Screed Master or equal & approved - thickness between between 4 to 5mm</p>				
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		Unit	Quantity	Rate	Amount
	<u>TEMPORARY BARRIERS, SCREENS, ETC</u>				
	<u>Temporary barriers, screens, etc. including removal:</u>				
1	Hoarding to "Phase 1" formed of 2200mm high 100mm diameter gum poles embedded 400mm into ground and 2.5m centres with timber purlins horizontal at 600mm centres to form a frame nailed upon gum poles with 70% shade net including excavating, backfilling, compacting, etc., complete including maintenance, re-use and removal thereof on completion.	m	50		
2	Ditto, but to phase 2	m	50		
3	Ditto, but to phase 3	m	50		
	<u>REMOVAL OF EXISTING WORK</u>				
	<u>Allow for the removal, carting away and disposal of the following materials to a dumpsite located by the Contractor:</u>				
4	Existing 500mm wide x 100mm thick existing half round concrete channels	m ²	44		
5	Existing perimeter fence	m	365		
6	Existing pedestrian gate	No	1		
7	Existing vehicular gate	No	1		
	<u>Taking out and removing doors, windows, e.t.c including thresholds, sills, etc. including carting away to a dumpsite located by Contractor and building up openings in brick walls, including making good cement plaster on both sides (making good paintwork elsewhere):</u>				
8	Timber single door size 813mm x 2032mm high overall including frame, ironmongery, etc.	No	40		
9	Timber double door overall including frame	No	1		
10	1.2mm x 813mm x 2032mm Galvanised pressed door frame	No	40		
11	Ditto, Galvanised pressed double door frame	No	1		
12	900mm x 2100mm Steel burglar gate	No	14		
13	Ditto, 1800mm x 2100mm Steel burglar gate	No	1		
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		Unit	Quantity	Rate	Amount
	<u>Carefully take down and remove "Asbestos" roof sheeting to pitched roof e.t.c in accordance with the existing regulations; The Specialist Subcontractor must be registered with the Department of Labour in accordance with regulation 21 of the asbestos regulation, 2001 promulgated under the occupational health and safety act, 1993. A work plan must be developed and approved by an approved asbestos inspection authority (AAIA). Cart away and dispose off site in accordance with section 20 of the Environment Conservation Act, 1989:</u>				
14	Block F - 1 x Classroom block	m ²	54		
15	Block I - Female ablutions	m ²	79		
	<u>Carefully take down and remove corrugated roof sheeting to pitched roof e.t.c:</u>				
16	Block A - Admin block	m ²	232		
17	Block C	m ²	141		
18	Block D	m ²	50		
19	Block E	m ²	444		
20	Block G	m ²	33		
21	Block H	m ²	65		
	<u>Carefully take down and remove roof tiles to pitched roof e.t.c:</u>				
22	Block B	m ²	134		
	<u>Carefully take down and remove timber trusses and purlins, eaves soffit covering, fascias, barge boards and rainwater pipes etc. To engineers approval and carting away to a dumpsite located by Contractor</u>				
23	Block B pitched roof approximately 37 380mm x 8 792mm x 2 975mm high overall	No	1		
24	Block C pitched roof approximately 16 020mm x 8 792mm x 2 975mm high overall	No	1		
25	Block F pitched roof approximately 7 220mm x 7 440mm x 2 975mm high overall	No	1		
26	Block G pitched roof approximately 6 200mm x 5 340 mm x 2 975mm high overall	No	1		
27	Block H pitched roof approximately 10 400mm x 7 315 mm x 2 975mm high overall	No	1		
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		Unit	Quantity	Rate	Amount
28	Block I pitched roof approximately 10 500mm x 7 500mm x 2 975mm high overall	No	1		
	<u>Removal of ceilings, e.t.c</u>				
29	Rhinoboard ceiling, fibre cement ceilings including timber bandering, cornices, etc. and carting away to a dumpsite located by Contractor	m²	1 213		
	<u>Taking out and removing sundry joinery work, fittings, etc. and carting away to a dumpsite located by Contractor:</u>				
30	Timber skirtings	m	750		
31	Dado rail.	m	750		
	<u>Hacking up and removing granolithic screeds, plaster, etc. from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc.:</u>				
32	20mm Thick on floors and landings	m²	100		
33	30mm Screed from floors, including vinyl floor covering	m²	981		
34	Vinyl floor covering	m²	975		
35	Tiles to floors	m²	735		
36	Tiles to walls	m²	50		
37	External and internal plaster	m²	434		
	<u>Removal and carting away chalkboard, pinboards, e.t.c to a site located by Contractor:</u>				
38	2400mm Wide x 1200mm high chalkboard, pinboards, e.t.c.	No	26		
	<u>Taking out and removing piping, including cutting off as necessary, holderbats and making good floor and wall finishes (making good tiling and paintwork elsewhere):</u>				
39	PVC piping not exceeding 50mm external diameter	m	10		
40	PVC piping exceeding 50mm and not exceeding 100mm external diameter	m	10		
	<u>Taking out and removing sanitary fittings, tanks, geysers, etc. including disconnecting from pipes, floor and wall finishes (making good tiling and paintwork elsewhere measured):</u>				
41	Wash hand basin	No	5		
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		Unit	Quantity	Rate	Amount
42	Stainless steel urinal - 1830mm length	No	2		
43	Water closet	No	13		
44	Wall hung urinal	No	4		
45	Kitchen sink	No	1		
	<u>Taking out and removing glass and mirrors:</u>				
46	Glass from steel windows, including cleaning out rebates and preparing for new glass	m ²	59		
	<u>BUILDING UP OPENINGS</u>				
	<u>Brickwork in NFP bricks in class II mortar in building up openings:</u>				
47	Half brick walls	m ²	10		
48	One brick walls	m ²	10		
	<u>PREPARATORY WORK TO EXISTING SURFACES</u>				
49	Repair cracks on existing walls as per Engineer's specifications including skimming to walls to an even finish.	m ²	329		
50	Clean external "Facebrick" with high pressure washer to remove any foreign objects.	m ²	399		
51	Inspect existing surface bed for dampness & allow for repairs through application of moisture barrier sheeting or compound if necessary as per Engineer's recommendations.	m ²	491		
52	Service existing steel window in accordance to Architect's specifications, and make good by replacing all necessary ironmongery related to existing steel	m ²	135		
	<u>MAKING GOOD OF FINISHES ETC</u>				
	<u>Making good of roof covering:</u>				
53	Inspect the roof and make good to damaged roof sections inline with the Architect recommendations	m ²	150		
	<u>SCREEDS</u>				
	<u>To Contractor's expense should Grade 1 variance in F1 above not be achieved. Grind & prime existing surface with self-leveling Tal-Screed Master or equal & approved - thickness between 4 to 5mm</u>				
	<u>Screeds wood floated, on concrete</u>				
54	30mm Thick levelling screed	m ²	585		
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ALTERATIONS
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	Unit	Quantity	Rate	Amount
<p>All necessary cutting of sheets shall be properly performed. Cut edges at sides of valleys and where otherwise exposed shall be perfectly straight. Use a power saw with cold cutting blades. This produces less hot metal particles and burns as opposed to carborundum discs. Note: Cut sheets to be deburred and coloured sheets to be touched up.</p> <p>The contractor is to submit a certificate signed by the Merchant, stating that the galvanised roof covering supplied complies with the required thickness specified.</p> <p>Roof sheet shall be in single lengths to each slope of the roof or to both roof slopes where a ridge is to be formed by bending the sheets over the ridge.</p> <p>The use of any approved factory applied paint finish shall in all cases be in addition to the galvanised coating as specified.</p> <p><u>Handling on site:</u></p> <p>On no account should sheeting in any surface, that is bundled or nested in stacks, be allowed to get wet. If packs become wet the sheets should be separated without delay and the surface moisture removed with a clean colth. The sheets should then be stacked so that air circulation completes the drying process.</p> <p>Refer to GRS (Global Roofing Solutions) Steel Roofing and Walling Manual of Content.</p> <p>On no account should sheeting in any surface, that is bundled or nested in stacks, be allowed to get wet. If packs become wet the sheets should be separated without delay and the surface moisture removed with a clean colth. The sheets should then be stacked so that air circulation completes the drying process.</p> <p>Refer to GRS (Global Roofing Solutions) Steel Roofing and Walling Manual of Content.</p> <p><u>Cleaning up:</u></p> <p>Metallic particles and all other debris including rivet shanks, nails, screws, nuts etc should be swept from the roof sheeting as soon as possible, at the end of each days work and particularly at completion of the roof installation. Corrosion and possible failure of the pre-painted or galvanised coating surfaces subject to moist or condensation conditions.</p> <p>Profiled metal roofing sheets shall be used and fixed all in accordance with SABS Code of Practice 0237.</p> <p>Roofing sheets for inland use shall have galvanised coating of Z25 quality.</p>				
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	Unit	Quantity	Rate	Amount
<p>Galvanised roof sheets shall be finished with an approval factory applied paint coating.</p> <p>All necessary cutting of sheets shall be properly performed. Cut edges at sides of valleys and where otherwise exposed shall be perfectly straight. Use a power saw with cold cutting blades. This produces less hot metal particles and burns as opposed to carborundum discs. Note: Cut sheets to be deburred and coloured sheets to be touched up.</p> <p>The contractor is to submit a certificate signed by the Merchant, stating that the galvanised roof covering supplied complies with the required thickness specified.</p> <p>Roof sheet shall be in single lengths to each slope of the roof or to both roof slopes where a ridge is to be formed by bending the sheets over the ridge.</p> <p>The use of any approved factory applied paint finish shall in all cases be in addition to the galvanised coating as specified.</p> <p>On no account should sheeting in any surface, that is bundled or nested in stacks, be allowed to get wet. If packs become wet the sheets should be separated without delay and the surface moisture removed with a clean cloth. The sheets should then be stacked so that air circulation completes the drying process.</p> <p>Refer to GRS (Global Roofing Solutions) Steel Roofing and Walling Manual of Content.</p> <p>Metallic particles and all other debris including rivet shanks, nails, screws, nuts etc should be swept from the roof sheeting as soon as possible, at the end of each days work and particularly at completion of the roof installation. Corrosion and possible failure of the pre-painted or galvanised coating surfaces subject to moist or condensation conditions.</p> <p><u>PROFILE METAL SHEETING AND ACCESSORIES</u></p> <p><u>0.8mm thick Galvanised IBR - Chromadek roof sheetings (colour to Architect's approval) fixed to 50 x 76mm SA pine purlins at min 750mm centres, including galvanised steel sheet accessories:</u></p>				
1 Roof covering with pitch not exceeding 18 degrees.	m ²	2 343		
<p><u>SHEET METAL FLASHING, LINING, COPING, ETC.</u></p> <p><u>0.8mm Galvanised steel flashings to suite IBR profile with 'Colomate' finish to match roof covering:</u></p>				
2 Ridge capping 550mm girth and three times bent along girth	m	145		
3 Narrow and Broad serrated flute closers	m	290		
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BILL NO. 2
ROOF COVERINGS
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<p><u>SECTION NO. 2</u></p> <p><u>REFURBISHMENT</u></p> <p><u>BILL NO. 3</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Reference to drawings and details:</u></p> <p>Where drawings and/ or details have been referred to in the description of items the tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained.</p> <p><u>Fixing:</u></p> <p>Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as 'bolted', the bolts have been given elsewhere</p> <p><u>Joinery:</u></p> <p>Descriptions of frames shall be deemed to include frames, transomes, rails, etc.</p> <p>Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts</p> <p><u>Design of prefabricated roof trusses:</u></p> <p>Prefabricated trusses shall be fabricated in a factory by a truss fabricator who has been awarded a Certificate of Competence by the Institute of Timber Construction and is approved by the Principal Agent</p> <p>Each roof truss shall have all its members accurately cut and closely butted together and rigidly fixed by CSIR approved patented galvanised metal spiked connectors, precision pressed on both sides of each intersection by an approved method, all in accordance with the manufacturers instructions</p>				
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	Unit	Quantity	Rate	Amount
<p>Trusses shall be designed by a registered professional engineer and in accordance with SABS 0160 and 0163, who shall, after erection, provide a certificate confirming that the design, manufacture, transportation, erection and bracing has been carried out in accordance with this specification</p> <p>The design shall include for all live loads, wind loads and for dead loads imposed by roof covering, purlins, ceilings, etc.</p> <p>Fully detailed shop drawings of all trusses, etc, indicating sizes, bracing, loading, etc, shall be submitted to the Principal Agent for approval prior to fabrication</p> <p>Unless specified erection instructions are given in writing, erection shall be carried out in accordance with the procedures and recommendations of the manual "The Erection and Bracing of Timber Roof Trusses" published by the "Institute for Timber Construction and the Council for Scientific and Industrial Research" or as detailed by the designer</p> <p>Rates trusses shall include for the necessary rafters, temporary bracing, longitudinal and cross bracing, wall plates, eaves support beams, trimmed and splay cut ends as required and erected complete. However, rates shall exclude all fascias and bargeboards, roof coverings, which are separately measured.</p> <p>The truss spacing indicated on Architectural drawings is an indication only. The actual truss spacing would be determined by the design of the roof construction</p> <p>The references given in the descriptions are to the drawings accompanying these bills of quantities for tender purposes which indicate the schematic truss layouts and cross sections</p> <p><u>Decorative thermosetting plastic laminate covering:</u></p> <p>Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish</p>				
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	Unit	Quantity	Rate	Amount
<u>PREFABRICATED ROOF TRUSSES, ETC.</u>				
<u>The following is applicabe in respect of roof trusses, trusses not exceeding 18 degree pitch maximum 1200mm centers. Roof covering galavanised IBR profile roof sheeting on 50mm x 76mm treated SA pine pirlins at maximum 750mm centers. The contractor is to confirm actual dimentions on site before fabrications:</u>				
1	No	1		
Roof construction to be double pitched roof with two gable ends measuring approximately 16 020mm x 8 792mm x 2 975mm including trusses, hurricane clips, rafters, permanent bracing and 50mm x 76mm purlins at 750mm centers maximum for roof covering and 38mm x 38mm cleats complete to Admin Block - Block B				
2	No	1		
Ditto, but to Block F measuring 9020mm x 11 969mm x 2975mm high overall				
3	No	1		
Ditto, but to Block G measuring 6 200mm x 5 340 mm x 2 975mm high overall				
4	No	1		
Ditto, but to Block H measuring 10 400mm x 7 315 mm x 2 975mm high overall				
<u>Sawn softwood grade 6:</u>				
5	m	75		
Extra over exposed sawn softwood roof timber for wrought ends				
6	m	78		
76mm x 114mm SAP timber wall plate				
7	m	474		
50mm x 76mm SAP purlins				
<u>SKIRTINGS</u>				
<u>Wrought meranti hardwood skirting plugged in:</u>				
8	m	750		
19mm x 69mm "Arris" rounded meranti skirting or Equally Approved including fixing to walls with nail heads punched in and filled				
9	m	750		
19mm x 76mm Dado rail plugged with standard pencil mould, painted				
10	m	750		
19mm Meranti quadrant bead, nailed to skirting.				
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		Unit	Quantity	Rate	Amount
	<u>FRAMED DOORS ETC</u>				
	<u>SOLID HARDWOOD TIMBER DOORS</u>				
11	Meranti 2 panel double door. 2 off 774mm X 2032mm x 42mm framed doors. 42mm x 105mm top rail and styles, 42mm x 185mm middle rail, 42mm x 220mm bottom rail. Meeting styles to be rebated. The raised field panel to the top and bottom. The top panel to be 562mm x 1051mm x 22mm and bottom to be 562mm x 569mm x 22mm - D1	No	1		
12	813mm x 2032mm x 40mm Solid flush panel door with hardboard on both sides including hanging to frames (frames elsewhere measured) - D2	No	11		
13	813mm x 1900mm x 40mm solid flush panel door with hardboard both sides including hanging to frames (frames elsewhere measured) - D3	No	15		
14	864mm x 2032mm x 44mm Thick approved "External" quality hardwood boarded door with 105x44 stiles, top and mid rails 144mm x 22mm bottom rail on 67mm x 19mm T&G boarding including hanging to frames elsewhere measured) - D4	No	17		
	<u>FRAMES, LININGS, ETC.</u>				
	<u>Wrot meranti frames rebated and 14mm x 14mm chamfered outward exposed edge for stiles and top frame (no threshold) built into brickwork with iron tiles. 12mm x 12mm quadrants all round both sides.</u>				
15	Standard approved hardwood 900mm x 2100mm x 86mm x 68mm rebated (for 42mm-44mm door thickness) and 14 x 14mm chamfered outward exposed edge for stiles and top frame (no threshold) built into brickwork with iron tiles. 12mm x 12mm quadrants all round both sides. All prepared for finish as specified	No	12		
16	Ditto, but for double door	No	1		
	<u>BARGE AND FASCIA BOARDS, ETC.</u>				
	<u>Fibre-cement barge and fascia boards screwed in:</u>				
17	275mm x 80mm 'Nutec Everite' or Equally Approved moulded barge board, twice screwed to, and including 38 x 38mm trimmer battens with countersunk brass screws with PVC H-profile barge board joiners between	m	197		
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CARPENTRY AND JOINERY
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<p><u>SECTION NO. 2</u></p> <p><u>REFURBISHMENT</u></p> <p><u>BILL NO. 4</u></p> <p><u>CEILINGS PARTITIONS AND ACCESS FLOORING</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing:</u></p> <p>Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as 'bolted', the bolts have been given elsewhere</p> <p><u>SA Pine cornice:</u></p> <p>Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p><u>Ceilings:</u></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><u>Bulkheads:</u></p> <p>Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. Their purpose is either to conceal services or to create architectural features</p> <p>Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions are more than 900mm such portions of ceilings have been included in the appropriate general items of ceilings</p> <p>Unless otherwise described bulkheads shall be deemed to be horizontal along the length</p> <p><u>Steel components:</u></p> <p>All steel components for ceilings, partitions, etc. are to be galvanised in accordance with SANS 121</p>				
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<u>CEILING, INSULATION, BEADS, ETC.</u>				
<u>Non-combustible fibreglass insulation of a density of not less than 12kg/m3 bonded with an inert thermo-setting:</u>				
1				
100mm Insulation in blanket form and lapped not less than 50mm along all edges and laid on top of brandering between roof timber etc.	m ²	975		
<u>Gypsum plasterboard ceilings</u>				
<u>6.4mm thick Gypsum plasterboard with 6 x 32mm wrought flat meranti coverstrips over joints primed before fixing and the whole with minimum 3mm and maximum 6mm thick coat gypsum skim plaster trowelled to smooth polished surface:</u>				
2				
Ceilings including 38 x 38mm SA pine brandering at 400mm centres in one direction.	m ²	975		
3				
Extra over ceiling for 650 x 650mm trap door with 38 x 50mm softwood frame and 38 x 114mm sawn softwood trimmers, fitted flush in opening with 19 x 50mm wrot softwood fillets all round	No	15		
<u>Fibre-cement ceilings</u>				
<u>6.4mm thick Fibre-cement plain ceiling boards including coverstrips to match over:</u>				
4				
Ceilings including standard steel brandering at 400mm centres in one direction only, joined with joiner sections and hung with suspension brackets including standard steel perimeter angles fixed to walls e.t.c	m ²	270		
5				
Extra over ceiling for 650mm x 650mm trap door with 38mm x 50mm softwood frame and 38mm x 114mm sawn softwood trimmers, fitted flush in opening with 19mm x 50mm wrot softwood fillets all round	No	2		
<u>CORNICES</u>				
6				
75mm SA Pine cornice	m	750		
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<u>BILL NO. 4</u>		
<u>CEILINGS PARTITIONS AND ACCESS FLOORING</u>		
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<u>FLOOR COVERINGS</u>				
<u>2.5mm Thick fully-flexible vinyl floor sheeting laid in acrylic adhesive spread on self levelling screed (elsewhere measured) with colours to Architect's specification:</u>				
1	On floors	m ²	975	
2	Three coats wax polish on vinyl flooring	m ²	975	
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BILL NO. 5
FLOOR COVERINGS
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	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>REFURBISHMENT</u></p> <p><u>BILL NO. 6</u></p> <p><u>IRONMONGERY</u></p> <p><u>PREAMBLES</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are both obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Reference to drawings and details:</u></p> <p>Where drawings and/ or details have been referred to Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained.</p> <p><u>Proprietary items:</u></p> <p>All ironmongery shall be in accordance with DORMAKABA specifications or equally approved unless otherwise described</p> <p>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</p> <p><u>Finishes to ironmongery:</u></p> <p>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 AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded</p>				
Carried to Collection			R	

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		Unit	Quantity	Rate	Amount
	<u>IRONMONGERY TO DOORS, FRAMES, ETC.</u>				
	<u>HINGES, BOLTS, ETC.</u>				
1	102 x 75 x 3mm Two ball bearing butt hing. (code DBB-SS-009 or Equally Approved) - set of 2	Sets	41		
2	DDS - SS - 017 dormakaba or equally approved floor mounted door stopper	No	41		
3	CB30 Cyl S.C dormakaba or Equally Approved lever handle on plate with cylinder cut out.	Sets	41		
	<u>DOOR CLOSERS</u>				
4	TS73V - SL dormakaba EN 2-4 or Equally Approved Regular Arm NON HOLD OPEN Door Closer - Adjustable Strength, Hydraulic Speed Control. Pull Side Fixing EN2 750-850, EN3 850-950, EN4 950-1100	No	1		
5	TS73V PA DC - PAB - SL dormakaba EN 2-4 or Equally Approved Parallel delayed action door closer. Push side fixing (Parallel arm bracket included)	No	1		
	<u>SIGNAGE</u>				
6	250mm Diameter clear perspex Aerial font 150mm - white vinyl "H.O.D OFFICE".	No	1		
7	250mm Diameter clear perspex Aerial font 150mm - white vinyl "CLASSROOM".	No	13		
8	DSS-130 M dormakaba or Equally Approved MALE sign	No	1		
9	Ditto, but FEMALE sign	No	1		
10	Ditto, but DISABLED PERSONS sign	No	1		
11	Ditto, but TEA CUP sign	No	1		
12	DSS-136 EL dormakaba 150 x 150mm Electrical sign	No	1		
	<u>HANDLES</u>				
	<u>Handles, e.t.c.</u>				
13	DHP-430-BL-SF 170 x 170 dormakaba DPH301C or Equally Approved Pull Handle BT fixed on a 170x170x1.2mm thick Grade 430 stainless steel plate with no cylinder cutout. Stainless Steel Plate to have 4 countersunk holes for screw fixing.	No	1		
14	DPH-301B Dormakana 325 x 25mm straight tubular pull handle flange fixing	No	1		
	Carried to Collection				
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		Unit	Quantity	Rate	Amount
15	DWC-006 dormakaba or Equally Approved Disabled WC indicator (Red & White) and turnknob for physically impaired	Sets	1		
	<u>LOCKS</u>				
	<u>The following locks are to be suitable for master key operation:</u>				
16	Cylinder sash lock (code D036S SS or Equally Approved)	No	14		
17	Cylinder deadlock (code D037D SS or Equally Approved)	No	1		
18	DMWC -SS-008 dormakaba or Equally Approved Bathroom Deadlock. Case dimensions (mm) 38H x 76D. Forend dimensions (mm) 78H x 22.5W. Backset 55mm.	No	1		
19	DDC206301 MK dormakaba or Equally Approved 63mm - 31.5+31.5mm Europrofile Nickel Plated E-SP 5 Pin Double Cylinder - Master Keyed	No	1		
20	DBC006501 dormakaba 65mm Euro-profile Bathroom/Privacy Cylinder or Equally Approved	No	1		
21	DKC206301 MK dormakaba 63mm - 31.5+31.5mm Europrofile Nickel Plated E-SP 5 Pin Knob Cylinder - Master Keyed	No	1		
22	DSC204101 MK dormakaba 40.5 or Equally Approved Europrofile Nickel Plated E-SP 5 Pin Single Cylinder - Master Keyed	No	1		
23	DIB-ZST-026 or Equally Approved dormakaba Indicator Bolt	No	1		
	<u>PLATES</u>				
24	DHP-430-BL-SF 170mm x 170mm dormakaba or Equally Approved 170mm x170mm x 1.2mm thick Grade 430 stainless steel plate. Stainless Steel Plate to have 4 countersunk holes for screw fixing.	No	1		
25	DKP - 430 - SF 200 Dormakaba 200mm x 813mm x 1.2mm thick grade 430 stainless steel kick plate, including countersunk holes and screws	No	1		
	<u>Sundry items:</u>				
26	DFB-SS-027 dormakaba or Equally Approved 160mm Manual flush bolt	No	1		
27	DCE-002 S.S dormakaba or Equally Approved Round Cylinder escutcheon	Pairs	1		
	Carried to Collection				
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		Unit	Quantity	Rate	Amount
28	D038R NP dormakaba or Equally Approved Rebate conversion kit for Euro Profile locks D036S, D037D.	No	1		
29	DRP-SS-023 dormakaba or Equally Approved 62x44mm Ring Flush Pull Handle	No	1		
30	DFB-SS-180 Dormakaba or Equally Approved 160mm Manual flush bolt	No	1		
31	DPS-SS-032 dormakaba or Equally Approved Dust Proof Strike	No	1		
32	Other Halcast no 166 SC brass cabin hook and eye fixed to wrot meranti blocks 75x75mm with chamfered edges.	No	1		
33	DHC-SS-031B dormakaba or Equally Approved Hat and Coat Hook with rubber buffer	No	1		
	<u>KEY TAGS</u>				
34	Plastic key tags to each key, key tag to be colour coded per block with relevant relating to door frame number (G-011 or Equally Approved)	No	32		
	<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u>				
	<u>Standard 'Parrot' or equally approved wall aluminum frame wall mounted Bulletin Boards (to be installed in strict accordance with the supplier/manufacture specification)</u>				
35	2 x 2400mm x 1200mm Bulletin Board with standard 20mm wide aluminium frame with concealed mounting & carpet finish.	No	13		
	<u>Standard 'Parrot' or equally approved wall aluminum frame wall mounted Swing Leaf Chalk Boards, with chalk trays (to be installed in strict accordance with the supplier/manufacture specification)</u>				
36	2 x 2400mm x 1200mm Chalkboard Non-Magnetic (Green) with standard 20mm wide aluminium frame with concealed mounting & Chalkrail at the back of board.	No	13		
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IRONMONGERY
COLLECTION

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	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>REFURBISHMENT</u></p> <p><u>BILL NO. 7</u></p> <p><u>METALWORK</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are both obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>Reference to drawings and details:</u></p> <p>Where drawings and/ or details have been referred to Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained.</p> <p>Where drawings and/ or details have been referred to Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained.</p> <p><u>Descriptions of bolts, anchors, e.t.c.:</u></p> <p>Unless otherwise described, descriptions of items shall be deemed to include for fixing to brickwork or concrete</p> <p>Where item are described as "bolted", the bolts are measured elsewhere</p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Items described as 'holed for bolt(s)' shall be deemed to exclude the bolts unless otherwise described</p> <p>Unless otherwise described, descriptions of items shall be deemed to include for fixing to brickwork or concrete</p> <p>Where item are described as "bolted", the bolts are measured elsewhere</p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Carried to Collection</p>				<p>R</p> <p>EMIS No. 500 138 232</p>

	Unit	Quantity	Rate	Amount
Items described as 'holed for bolt(s)' shall be deemed to exclude the bolts unless otherwise described				
Fixing:				
Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres				
Doors and windows shall comply with AAAMSA design criteria Glazing shall comply with SAGGA regulations. Glass shall be laminated performance glass as shown on the window schedules appended to these bills of quantities (as described in the headings to window descriptions). Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules. 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				
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				
Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres				
Carried to Collection			R	

	Unit	Quantity	Rate	Amount
<p>Doors and windows shall comply with AAAMSA design criteria Glazing shall comply with SAGGA regulations. Glass shall be laminated performance glass as shown on the window schedules appended to these bills of quantities (as described in the headings to window descriptions). Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules. 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</p> <p>The following certificates shall be provided prior to commencement of site work:</p> <ol style="list-style-type: none"> 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 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 <p><u>Galvanised mild steel security gates consisting of 10 x 10mm mild steel bars placed at 100mm centers at a 45 degree angle, with 50 x 50 mm square tube frame, with heavy duty hinges to allow gates to open to a max angle of 180 degrees, including painting with one coat Zinc Chromate primer and two coats gloss enamel paint.</u></p>				
1 925mm x 2032mm high Single burglar gate.	No	13		
2 Ditto, but double door	No	1		
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		Unit	Quantity	Rate	Amount
	<u>Galvanised mild steel security window bars consisting of 12mm Diameter mild steel bars placed at (minimum 150mm and maximum 225mm) centers vertically and at (minimum 198mm and maximum 223mm) centers horizonatllly, with 12mm Diameter frame, with and including 25 x 75 x 4mm thick mild steel plates and masonary screws, including painting with one coat primer and two coats white epoxy paint to match windows complete as per architects drawings.</u>				
3	Burglar bars to windows of various sizes	m ²	50		
	<u>1.2mm galvanised pressed metal double rebated frame complete with straps for building in including 2 x 100mm galvanised and welded loose-pin hinges</u>				
4	900mm x 2032mm to suit 220mm brickwall	No	13		
5	Ditto, to double door opening to suit 220mm brickwall	No	1		
	<u>Welded and bolted patent balustrades to stairs</u>				
6	Balustrades, 38mm x 50mm x 1.6mm mild steel rectangular hollow section frame consisting of 25mm x 25mm x 1.6mm intermediate mild steel hollow tubes placed vertically at 92mm centres, with 50mm x 50 mm mild steel square tube frame, complete with 50 mm diameter steel hollow tube fixed oto frame to specialist detail	m	1		
	<u>STAINLESS STEEL TABLES</u>				
	<u>'Franke' or Equally Approved:</u>				
7	800 x 600mm Free standing stainless steel table on casters with below counter shelving as per Architect's Joinery Layout drawing A105	No	1		
8	900mm High free standing stainless steel table with adjustable shelves and sliding doors as per Architect's Joinery Layout drawing A105	No	1		
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METALWORK
COLLECTION

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	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>REFURBISHMENT</u></p> <p><u>BILL NO. 8</u></p> <p><u>PLASTERING</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are both obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Moisture tests:</u></p> <p>Before any finishes, coverings, etc are applied to screeds, plastering, etc or any other in-situ finish moisture tests are to be carried out to the complete satisfaction of the Principal Agent to ensure that these surfaces have the correct moisture content for the finish to be applied</p> <p><u>Labours, etc.:</u></p> <p>Labours such as fair, rounded and chamfered edges, trowel cuts, throats, V-joints, angles, etc shall be deemed to be included in the descriptions</p> <p><u>Granolithic:</u></p> <p>Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour.</p> <p>Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying.</p> <p>Granolithic shall be laid in panels not exceeding 14m\² for monolithic finishes, not exceeding 9,5m\² for bonded finishes and not exceeding 6m\² for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width.</p> <p>Unless otherwise described, granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic.</p>				
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	Unit	Quantity	Rate	Amount																														
<p>For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc. is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic.</p> <p>Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints</p> <p><u>Cement plaster:</u></p> <p>Unless otherwise described, cement plaster shall be taken to mean Class 1 cement plaster</p> <p><u>SCREEDS</u></p> <p><u>Screeds wood floated on concrete</u></p> <tr> <td>1</td> <td></td> <td>30mm thick to floors and landings</td> <td>m²</td> <td>500</td> </tr> <p><u>INTERNAL PLASTER</u></p> <p><u>Cement plaster wood floated, on brickwork</u></p> <tr> <td>2</td> <td></td> <td>On walls</td> <td>m²</td> <td>300</td> </tr> <tr> <td>3</td> <td></td> <td>On narrow widths</td> <td>m²</td> <td>30</td> </tr> <p><u>EXTERNAL PLASTER</u></p> <p><u>Cement plaster on brickwork</u></p> <tr> <td>4</td> <td></td> <td>On walls</td> <td>m²</td> <td>100</td> </tr> <tr> <td>5</td> <td></td> <td>On narrow widths</td> <td>m²</td> <td>30</td> </tr> <tr> <td colspan="4">Carried to Collection</td> <td>R</td> </tr>					1		30mm thick to floors and landings	m ²	500	2		On walls	m ²	300	3		On narrow widths	m ²	30	4		On walls	m ²	100	5		On narrow widths	m ²	30	Carried to Collection				R
1		30mm thick to floors and landings	m ²	500																														
2		On walls	m ²	300																														
3		On narrow widths	m ²	30																														
4		On walls	m ²	100																														
5		On narrow widths	m ²	30																														
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PLASTERING
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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>REFURBISHMENT</u>				
<u>BILL NO. 10</u>				
<u>TILING</u>				
<u>PREAMBLES</u>				
<p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are both obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Fixing:</u>				
<p>Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding</p> <p>Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat</p> <p>Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Professional" ("Ceresit Tylon"?) range of products as recommended by the manufacturer of the tiles</p>				
<u>FLOOR TILING</u>				
<u>600mm x 600mm x 12mm non slip porcelain floor tiles (PC Sum R 320.00/m²) fixed with adhesive to screed (screed elsewhere) and flush pointed with grout.</u>				
On floors, stairs, landings, e.t.c	m²	50		
100mm high tile skirting with aluminium edge strip (elsewhere measured)	m	74		
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	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>REFURBISHMENT</u></p> <p><u>BILL NO. 11</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are both obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>References to details and drawings:</u></p> <p>Where drawings and/ or details have been referred to Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained.</p> <p><u>Wire gratings:</u></p> <p>Descriptions of gutter outlets etc. shall be deemed to include wire balloon gratings</p> <p><u>Stormwater channels:</u></p> <p>Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc., and disposal of surplus material on site</p> <p><u>French drains:</u></p> <p>Descriptions of French drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, approved geofabric filter blanket over stone, 300mm earth filling over and disposal of surplus material on site</p> <p><u>Stainless steel basins, sinks, wash troughs, urinals, etc.:</u></p> <p>Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0) Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc. shall be Type 304 (18/8) Stainless steel for laboratory sinks, photographic equipment, etc. shall be Type 316 (18/8) Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p>				
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	Unit	Quantity	Rate	Amount
<p><u>Reducing fittings:</u></p> <p>Where fittings have reducing ends or branches they are described as 'reducing' and 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</p> <p><u>Fixing of pipes:</u></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc., casting in, building in or suspending not exceeding 1m below suspension level</p> <p><u>Paper wrapping to pipes:</u></p> <p>Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings</p> <p><u>Disinfection of water pipework:</u></p> <p>Water pipework is to be disinfected at completion in accordance with SABS 1200L (provision for disinfection elsewhere)</p> <p><u>Laying, backfilling, bedding, etc. of pipes:</u></p> <p>Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled</p> <p>Where no manufacturers' instructions exist, pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following: SABS 1200L : Medium-pressure pipelines SABS 1200LD : Sewers SABS 1200LE : Stormwater drainage Pipe trenches, etc. shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200LB : Bedding (Pipes) Unless otherwise described bedding of rigid pipes shall be Class B bedding</p> <p><u>General:</u></p> <p>Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc. are given separately) Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends</p>				
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		Unit	Quantity	Rate	Amount
	<u>TAPS, VALVES, E.T.C</u>				
	<u>'Cobra Watertech' or Equally Approved:</u>				
9	15mm chromium plated pillar tap with a "star" handle including connecting to existing water connection point.	No	12		
10	15mm Starpillar or Equally Approved chrome plated with blue indicator for cold water including connecting to existing water connection point.	No	12		
11	Cobra FSK2D2SR-0GT01 or Equally Approved star pillar sink mixer including connecting to existing water connection point.	No	1		
12	Chrome kitchen sink mixer with a spring neck, H46cm Spout reach 27cm	No	1		
	<u>SANITARY FITTINGS</u>				
	<u>Water Closets:</u>				
13	Close coupled washdown suite with 90 degree outlet open rim pan and matching 9 litre front single flush cistern including lid, fitments and flushpipe including bedding to floor in 1:4 cement mortar (Refer to sanitary fitting schedule).	No	13		
14	Floor mounted paraplegic 90 degree outlet open rim washdown pan colour: White with front single flush vandal proof cistern including lid, fitments and flushpipe elbow and B2 economy double flap thermoset seat (Refer to sanitary fitting schedule).	No	1		
	<u>Wash Hand Basins:</u>				
15	550mm x 400mm wash hand basin with one tap hole, chainstay hole, mounted to wall including two semi-concealed cast iron wall brackets with 10mm bolts (Refer to sanitary fitting schedule).	No	11		
16	450mm x 290mm (LHS) wall mounted wash hand basin including intergrated overflow and chainstay hole, bolted to wall and sealed with silicone sealant where wash hand basin meets wall (Refer to sanitary fitting schedule).	No	1		
	<u>Urinal:</u>				
17	610mm x 400mm x 385mm Wall hung ceramic urinal including securely fixing to walls including flash valve and tail pipe and chrome urinal bottle trap	No	4		
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		Unit	Quantity	Rate	Amount
18	Franke model TU02 or Equally Approved stainless steel urinal, measuring 915 x 305 x 1264mm length including built-in tipping tank and a 12mm adjustable drip cock (inlet) which controls the automatic flushing of the urinal at regular intervals (refer to sanitary fitting schedule).	No	2		
	<u>Stainless Steel Sinks:</u>				
19	'Franke' or Equally Approved 510mm x 405mm single bowl sink including waste fittings to kitchenette	No	2		
20	Ditto, but double bowl sink with drainer	No	1		
	<u>Bathroom Fittings:</u>				
21	100mm x 134mm x 304mm Satin stainless steel surface mounted soap dispenser including securely mounting to walls (refer sanitary schedule).	No	4		
22	Franke or Equally Approved single toilet roll holder, screwed to hardwood or patent plastic plugs in wall and the lock system must come with a standard key to allow for easy opening of lid (refer sanitary schedule).	No	8		
23	770mm x 450mm x 450mm "The Turin Wilson stone" or Equally Approved sandstone or grey cement with fibre canopy lid (refer sanitary schedule).	No	8		
	<u>SANITARY PLUMBING</u>				
	<u>uPVC Pipes:</u>				
24	40mm Pipes.	m	50		
25	110mm Pipes.	m	50		
	<u>Extra over uPVC pipes for fittings or equally approved:</u>				
26	40mm fitting	No	20		
27	110mm fittings	No	20		
	<u>TESTING, E.T.C</u>				
28	Allow for the testing of all installations to the satisfaction of the Employer's Representative	Item			
	Carried to Collection			R	

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PLUMBING AND DRAINAGE
COLLECTION

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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>REFURBISHMENT</u>				
<u>BILL NO. 12</u>				
<u>GLAZING</u>				
<u>PREAMBLES</u>				
The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are both obtainable from Public Works website www.publicworks.gov.za/consultantguidelines				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Float glass:</u>				
The term 'float glass' is used for monolithic annealed glass				
<u>GLAZING</u>				
<u>6.38mm laminated obscured safety glass</u>				
1		Pane exceeding 0.1m2 and not exceeding 0.5m2	m ²	50
<u>4mm clear float glass</u>				
2		Panes exceeding 0.1m2 and not exceeding 0.5m2	m ²	92
<u>0.3mm Deep Grade 304 13mm 18/10 stainless steel mirrors, concealed thief resistant fixings, plugged and screwed to the wall with stainless steel screws</u>				
3		Mirror 600mm x 500mm High	No	5
Carried To Section Summary				
				R

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>REFURBISHMENT</u> <u>BILL NO. 13</u> <u>PAINTWORK</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are both obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Painting specification:</u> <p>All painting shall be done in accordance with SABS specifications unless otherwise described</p> <u>Colours:</u> <p>Unless otherwise described, all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SABS 1091</p> <p>When staining timber, the resultant colour or shade must be to the complete satisfaction of the Principal Agent before any overcoating or preservative is applied</p> <u>ON INTERNAL PLASTER SURFACES</u> <u>Prepare surfaces and remove all loose material, apply one coat alkali resistant primer and two coats PVA emulsion paint for interior use.</u>				
1 On walls	m ²	1 350		
2 On narrow widths	m ²	135		
<u>ON EXTERNAL PLASTER SURFACES</u> <u>Prepare surfaces and remove all loose material, apply one coat plaster primer and two coats super acrylic:</u>				
3 On walls	m ²	678		
4 In narrow widths	m ²	135		
<u>ON GYPSUM BOARD SURFACES</u> <u>One coat alkali based zinc chromate primer and two coats gloss enamel paint, on steel:</u>				
5 Ceilings and cornices, including priming metal cover strips and nailheads	m ²	975		
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	Unit	Quantity	Rate	Amount
<u>ON FIBRE CEMENT SURFACES</u>				
6	Fibre cement ceiling.	m ²	270	
7	Fascias and barge boards, including priming metal jointing strips	m ²	100	
<u>ON EXISTING METAL SURFACES</u>				
<u>One coat alkali based zinc chromate primer and two coats gloss enamel paint, on steel:</u>				
8	Windows	m ²	50	
<u>Three coats exterior quality penetrating wood preservative:</u>				
<u>ON WOOD SURFACES</u>				
9	Skirtings, quadrants, rails, etc. not exceeding 300mm girth	m	750	
10	Roof timbers at eaves and verges	m ²	74	
<u>Apply 1 coat primer and two coats of gloss enamel paint</u>				
11	On external doors.	m ²	66	
<u>Apply 1 coat primer and two coats of gloss enamel paint</u>				
12	On internal doors.	m ²	88	
Carried to Collection				R

BILL NO. 13
PAINTWORK
COLLECTION

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		Amount
<u>SECTION NO. 2</u>		
<u>REFURBISHMENT</u>		
<u>SECTION SUMMARY</u>		
Bill No.		Page
1	ALTERATIONS	26
2	ROOF COVERINGS	31
3	CARPENTRY AND JOINERY	37
4	CEILINGS PARTITIONS AND ACCESS FLOORING	40
5	FLOOR COVERINGS	43
6	IRONMONGERY	48
7	METALWORK	53
8	PLASTERING	56
10	TILING	57
11	PLUMBING AND DRAINAGE	64
12	GLAZING	65
13	PAINTWORK	68
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SECTION NO. 3
NEW BUILDINGS

EMIS No. 500 138 232

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>NEW BUILDINGS</u></p> <p><u>BILL NO. 1</u></p> <p><u>EARTHWORKS</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 which are both obtainable from the Public Works website</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground:</u></p> <p>A soils investigation has been carried out on the site by the engineer and the report is annexed to these bills of quantities. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as 'earth'. All very hard unweathered shale, ironstone, etc., the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as 'hard rock'</p> <p><u>Subterranean water:</u></p> <p>No subterranean water is expected</p> <p><u>Excavation for working space in rock:</u></p> <p>Notwithstanding clause 11 page 8 of the Standard System of Measuring Building Work, excavation for working space in rock will be measured in cubic metres to the extent executed and given as 'extra over' bulk excavation or trench and hole excavation as the case may be</p> <p><u>Carting away of excavated material:</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><u>Filling:</u></p> <p>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 necessary multiple handling of material</p> <p><u>Testing:</u></p> <p>Prices for filling are to include for all necessary density tests in accordance with SABS 1200D</p> <p>Carried to Collection</p>				<div>R</div> <div>EMIS No. 500 138 232</div>

		Unit	Quantity	Rate	Amount
	<u>SITE CLEARANCE ETC</u>				
	<u>Site clearance:</u>				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc. and trees not exceeding 200mm girth	m ²	104		
2	Stripping average 150mm thick layer of top soil and depositing material in prescribed stock piles on site	m ²	104		
	<u>EXCAVATION OTHER THAN BULK, ETC</u>				
	<u>Excavation in earth not exceeding 2m deep:</u>				
3	Trenches and ground beams	m ³	26		
	<u>Excavation in earth exceeding 2000mm deep but not exceeding 4000mm:</u>				
4	Toilet Pit	m ³	147		
	<u>Extra over trench and hole excavations in earth for excavation in:</u>				
5	Soft rock	m ³	17		
6	Hard rock	m ³	9		
	<u>Extra over all excavations for carting away:</u>				
7	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m ³	173		
	<u>Keeping excavations free of water:</u>				
8	Keeping excavations free of all water other than subterranean water	Item			
	<u>Risk of collapse of excavations, other than bulk:</u>				
9	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	21		
10	Ditto, but to sides of toilet pit exceeding 1500mm deep but not exceeding 4000mm deep	m ²	89		
	<u>FILLING ETC OTHER THAN BULK</u>				
	<u>Earth filling supplied by the contractor, compacted to 95% Mod AASHTO density:</u>				
11	Under floors, steps, pavings, etc.	m ³	15		
	<u>Coarse river sand filling supplied by the contractor:</u>				
12	Under floors etc.	m ³	3		
	Carried to Collection				
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EARTHWORKS
COLLECTION

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	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>NEW BUILDINGS</u></p> <p><u>BILL NO. 2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>PREAMBLES</u></p> <p>The Bidder is referred to the relevant clauses in a separate document 'SPECIFICATION OF MATERIALS & METHODS' to be used PW/371A (Edition 2.1 July 2014) from The Department of Public Works.</p> <p><u>REINFORCEMENT (PROVISIONAL)</u></p> <p>The Bidder is referred to the relevant clauses in a separate document 'SPECIFICATION OF MATERIALS & METHODS' to be used PW/371A (Edition 2.1 July 2014) from The Department of Public Works.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cost of tests:</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 Tests of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)</p> <p><u>Formwork:</u></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as 'left in' or 'permanent'), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself</p> <p>Formwork to soffits of solid slabs etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described</p> <p>Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described</p>				
Carried to Collection			R	

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		Unit	Quantity	Rate	Amount
	<p><u>REINFORCEMENT (PROVISIONAL)</u></p> <p><u>Cost of tests:</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 Tests of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)</p> <p><u>REINFORCEMENT (PROVISIONAL)</u></p> <p><u>Fabric reinforcement:</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 Tests of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)</p> <p><u>REINFORCEMENT (PROVISIONAL)</u></p> <p><u>Formwork:</u></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as 'left in' or 'permanent'), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself</p> <p>Formwork to soffits of solid slabs etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described</p> <p>Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described</p> <p><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></p> <p><u>10MPa/19mm concrete:</u></p>				
1	Surface blinding under footings and bases	m ³	4		
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		Unit	Quantity	Rate	Amount
	<u>25MPa/19mm concrete:</u>				
2	Strip footings	m ³	15		
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>25MPa/19mm concrete:</u>				
3	Surface beds on waterproofing	m ³	8		
4	750mm concrete aprons	m ³	24		
	<u>REINFORCED CONCRETE CAST AGAINST FORMWORK</u>				
	<u>25MPa/19mm concrete:</u>				
5	Floor slab	m ³	9		
	<u>TEST CUBES</u>				
	<u>Test cubes:</u>				
6	Making and testing set of three 150mm x 150mm x 150mm concrete strength test cube (Provisional)	Sets	3		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a power float:</u>				
7	Surface beds, slabs, etc.	m ²	103		
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II) (CPAP WORK GROUP NO. 111)</u>				
	<u>Rough formwork to sides:</u>				
8	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	30		
	<u>Boxing out rough formwork to form:</u>				
9	170mm Thick opening.	m	10		
	<u>PERMANENT FORMWORK</u>				
	<u>Decking for slabs with ends laid on brick walls:</u>				
10	Soffits propped up to heights exceeding 1.5m high but not exceeding 3.5m high to slabs over pits.	m ²	51		
	<u>MOVEMENT JOINTS, ETC.</u>				
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces:</u>				
11	10mm joints not exceeding 300mm high to edges of surface beds	m	40		
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CONCRETE, FORMWORK AND REINFORCEMENT
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	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>NEW BUILDINGS</u></p> <p><u>BILL NO. 3</u></p> <p><u>MASONRY</u></p> <p><u>PREAMBLES</u></p> <p>The Bidder is referred to the relevant clauses in a separate document 'SPECIFICATION OF MATERIALS & METHODS' to be used PW371A (Edition 2.1 July 2014) from The Department of Public Works.</p> <p><u>FIBRE-CEMENT WINDOW SILLS</u></p> <p>The Bidder is referred to the relevant clauses in a separate document 'SPECIFICATION OF MATERIALS & METHODS' to be used PW371A (Edition 2.1 July 2014) from The Department of Public Works.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>BRICKWORK</u></p> <p><u>Sizes in descriptions:</u></p> <p>Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick</p> <p><u>Hollow walls:</u></p> <p>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</p> <p><u>Bagged and sealed walls:</u></p> <p>Walls in two skins described as 'bagged and sealed' shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating</p> <p><u>Face bricks:</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing:</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.</p> <p><u>Sizes in descriptions:</u></p> <p>Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick</p>				
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	Unit	Quantity	Rate	Amount
<p><u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc.:</u></p> <p>Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick</p> <p><u>Hollow walls:</u></p> <p>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</p> <p>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</p> <p><u>Bagged and sealed walls:</u></p> <p>Walls in two skins described as 'bagged and sealed' shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating</p> <p>Walls in two skins described as 'bagged and sealed' shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating</p> <p><u>Face bricks:</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing:</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.</p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.</p> <p><u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u></p> <p><u>Brickwork of NFP bricks in class II mortar:</u></p>				
1	Half Brick Walls	m ²	8	
2	One Brick Walls, internal skin to be bag washed and painted with bitumen.	m ²	153	
3	330mm x 330mm Brick pier with concrete infil (concrete in fill elsewhere measured)	m ³	1	
Carried to Collection				R

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		Unit	Quantity	Rate	Amount
	<u>BRICKWORK IN SUPERSTRUCTURE</u>				
	<u>Brickwork of NFP bricks in class II mortar:</u>				
4	Half brick walls	m ²	23		
5	Half brick walls in beamfilling	m ²	3		
6	One brick walls	m ²	87		
	<u>BRICKWORK SUNDRIES</u>				
	<u>2.5mm Brickwork reinforcement:</u>				
7	75mm Wide reinforcement built-in horizontally in foundations (Provisional)	m	87		
8	150mm Wide reinforcement built-in horizontally in foundations (Provisional)	m	226		
9	150mm Wide reinforcement built-in horizontally	m	325		
	<u>Prestressed fabricated Facebrick lintels including necessary temporary supports:</u>				
10	110 x 75mm Lintels in lengths not exceeding 3 000mm	m	17		
	<u>Turning pieces to lintels etc.:</u>				
11	220mm Wide turning pieces	m	2		
	<u>Galvanised hoop iron cramps, ties, etc.:</u>				
12	30mm x 1,6mm Cramp 500mm length with one end fixed to timber and other end built into brickwork	No	16		
	<u>Air bricks etc.:</u>				
13	229mm x 152mm Clay vermin proof air brick	No	10		
	<u>FACE BRICKWORK</u>				
	<u>"COROBRIC FIRELIGHT SATN " or similar approved face bricks pointed with recessed horizontal and vertical joints:</u>				
14	Extra over brickwork for face brickwork	m ²	138		
15	Ditto in foundations	m ²	37		
16	Fair raking cutting	m ²	22		
	<u>Brick-on-edge header course copings, sills, etc. of selected face bricks, pointed with recessed joints on all exposed faces:</u>				
17	220mm Wide sills set sloping and slightly projecting	m	10		
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BILL NO. 3
MASONRY
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		Unit	Quantity	Rate	Amount
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
	<u>One layer 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B):</u>				
1	In walls.	m ²	11		
2	Under window cills.	m ²	2		
	<u>One layer 250 micron gunplas black polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape:</u>				
3	Under surface beds.	m ²	51		
4	Under ground beams.	m ²	23		
5	Under pit surface beds and around toilet pit vertical walls	m ²	51		
	<u>SEALING STRIPS, JOINT SEALANTS, ETC</u>				
	<u>Clear silicone sealant:</u>				
6	In waterproofing joints between timber, porcelain or stainless steel fitting tops and walls.	m	24		
	<u>Bitumen impregnated foam plastic joint sealing strips:</u>				
7	10 x 20mm In expansion joints.	m	40		
	<u>Two-part polyurethane sealing compound including backing cord, bond breaker, primer, etc.:</u>				
8	6 x 10mm In saw cut joints in floors.	m	25		
	<u>WATERPROOFING OF TOILET PIT WALLS AND FLOORS</u>				
	<u>20mm "COPROX" or similar approved membrane, including preparation of surfaces and application as per manufacturer's product application instructions:</u>				
9	Corners of toilet pit.	m	15		
	<u>Two coats "ABE DURAFLEX" and two coats "ABE COTE SF 365" or similar approved waterproof coating, including preparation of surfaces and application as per manufactures product application instructions:</u>				
10	On concrete floors.	m ²	49		
11	On brick walls.	m ²	247		
	Carried to Collection				
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WATERPROOFING
COLLECTION

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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>NEW BUILDINGS</u>				
<u>BILL NO. 5</u>				
<u>ROOF COVERINGS</u>				
<u>PREAMBLES</u>				
The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013				
<u>PROFILE METAL SHEETING AND ACCESSORIES</u>				
<u>0.5mm Galvanised IBR profile light industrial steel sheeting with downturn edge with 'Colomate' finish to one side and half coat 'Classicoat Grey' to other side and fixed to 76mm SA pine purlins at min 1000mm centres, including galvanised steel sheet accessories:</u>				
1	Roof covering with pitch not exceeding 5 degrees.	m ²	56	
<u>SHEET METAL FLASHING, LINING, COPING, ETC.</u>				
<u>0.5mm Galvanised steel flashings to suite IBR profile with 'Colomate' finish to match roof covering:</u>				
2	Ridge capping	m	10	
3	Narrow and Broad serrated flute closers	m	21	
4	Moulded narrow and Broad polyethylene filler blocks.	m	21	
<u>ROOF INSULATION</u>				
<u>'Rhino Plastic' Enviro-tuff Supreme 202, or similar approved insulation with 150mm minimum industrial overlap laid in accordance with manufactures specification:</u>				
5	Insulation laid under purlins and fixed concurrent with roof sheeting, including galvanised nails and straining wires.	m ²	56	
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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>NEW BUILDINGS</u>				
<u>BILL NO. 6</u>				
<u>CARPENTRY AND JOINERY</u>				
<u>PREAMBLES</u>				
For Preambles the tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A July 2013) and Particular Specification (PW371-B July 2013)				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Fixing:</u>				
Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete				
Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as 'bolted', the bolts have been given elsewhere				
<u>Joinery:</u>				
Descriptions of frames shall be deemed to include frames, transomes, rails, etc.				
Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts				
<u>Decorative thermosetting plastic laminate covering:</u>				
Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish				
<u>ROOFS ETC</u>				
<u>SA Pine grade 6</u>				
38mm x 114mm Wall plates	m	21		
Roof trusses with a 17 degrees pitch measuring 10 200mm x 6 450mm manufactured in accordance with Engineer's specification	No	1		
76mm x 50mm SA Pine Purlins at 1000mm centres on timber trusses to Engineers detail and specification.	m	71		
Carried to Collection			R	

		Unit	Quantity	Rate	Amount
<u>FRAMED DOORS ETC</u>					
<u>SOLID HARDWOOD TIMBER DOORS</u>					
4	44mm Framed ledged, braced and battened door 813mm x 2032mm high of 44mm x 108mm top rail and stile, 22mm x 108mm middle ledge and braces and 22mm x 222mm bottom ledge filled in with 22mm x 70mm tongued, grooved and V-jointed one side boarding and covered on the other side with 3mm plywood with veneer to match door let into and including rebates all around including 44mm x 70mm splayed, moulded and grooved weatherboard.	No	4		
<u>SEMI SOLID CORE FLUSH DOORS</u>					
<u>Solid flush doors with commercial veneer hung to steel frames:</u>					
5	40mm x 813mm x 2032mm high timber door.	No	4		
<u>DOOR FRAMES ETC</u>					
<u>Wrought softwood</u>					
6	86mm x 68mm Rebated linings, plugged	m	17		
<u>Wrot meranti frames</u>					
7	44mm x 94mm Rebated frames for door size 813mm x 2032mm (D01).	No	4		
<u>EAVES, VERGES, ETC</u>					
<u>High density plain fibre-cement fascias and barge boards:</u>					
8	10mm x 225mm 'Nutek Everite' or equally approved high density plain cement fascia board, twice screwed to, and including 38 x 38mm trimmer battens with hot dipped galvanised screws and washers with aluminium H-profile fascia board jointers between boards.	m	20		
9	200mm x 80mm 'Nutek Everite' or equally approved moulded barge board, twice screwed to, and including 38 x 38mm trimmer battens with hot dipped galvanised screws and washers with aluminium H-profile barge board jointers between boards.	m	15		
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BILL NO. 6
CARPENTRY AND JOINERY
COLLECTION

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	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>NEW BUILDINGS</u></p> <p><u>BILL NO. 7</u></p> <p><u>CEILINGS PARTITIONS AND ACCESS FLOORING</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles the tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A July 2013) and Particular Specification (PW371-B July 2013)</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing:</u></p> <p>Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as 'bolted', the bolts have been given elsewhere</p> <p><u>Ceilings:</u></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><u>Bulkheads:</u></p> <p>Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. Their purpose is either to conceal services or to create architectural features</p> <p>Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions are more than 900mm such portions of ceilings have been included in the appropriate general items of ceilings</p> <p>Unless otherwise described bulkheads shall be deemed to be horizontal along the length</p> <p><u>Steel components:</u></p> <p>All steel components for ceilings, partitions, etc. are to be galvanised in accordance with SANS 121</p>				
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	Unit	Quantity	Rate	Amount
<u>NAILED UP CEILINGS</u>				
<u>4mm Nutect Everite ceiling nailed-up to 38 x 38mm SA pine grade 6 brandering and to under side of trusses :</u>				
1	Ceilings including 38 x 38mm Brandering at 400mm centers in one direction:	m ²	36	
2	Extra over ceiling for 800 x 800mm trap door with 38 x 50mm softwood frame and 38 x 114mm nutech fibre cement , fitted flush in opening with 19 x 50mm wrot softwood fillets all round (Provisional).	No	3	
<u>Softwood cornices:</u>				
3	75 x 20mm Coved cornice spiked to wall	m	46	
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		Amount
<u>BILL NO. 7</u>		
<u>CEILINGS PARTITIONS AND ACCESS FLOORING</u>		
<u>COLLECTION</u>		
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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>NEW BUILDINGS</u>				
<u>BILL NO. 8</u>				
<u>IRONMONGERY</u>				
<u>PREAMBLES</u>				
<u>For Preambles the tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A July 2013) and Particular Specification (PW371-B July 2013)</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<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>Finishes to ironmongery</u>				
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded				
<u>IRONMONGERY TO DOORS, FRAMES, ETC.</u>				
<u>'DCLSA' or equally approved:</u>				
1	100 x 75 x 3mm Satin stainless steel hinge. (code 095/75)	Pairs	8	
<u>'Howick' or equal approved:</u>				
2	150 x 32mm Satin chrome plated barrel bolt.	No	4	
<u>CATCHES, CABIN HOOKS, ETC.</u>				
<u>'DCLSA' or equally approved:</u>				
3	SAA hat and coat buffer hook (code 154/69).	No	4	
Carried to Collection				R

		Unit	Quantity	Rate	Amount
<u>LOCKS</u>					
<u>'Union' or equally approved lockset with satin-chrome handles:</u>					
4	4 Lever lockset, complete.	No	4		
<u>SUNDRIES</u>					
5	Brass floor mounted door holder, product code '401'	No	6		
<u>LETTERS, NAME PLATE, ETC</u>					
<u>"Union" or similar approved aluminium signage fixed manufacture's specification:</u>					
6	152mm x 152mm x 3mm "GENTS" toilet sign	No	1		
7	152mm x 152mm x 3mm "LADIES" toilet sign	No	1		
8	152mm x 152mm x 3mm "DISABLE" toilet sign	No	2		
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BILL NO. 8
IRONMONGERY
COLLECTION

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	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>NEW BUILDINGS</u></p> <p><u>BILL NO. 11</u></p> <p><u>STRUCTURAL STEELWORK</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013</p> <p><u>PREAMBLES</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Reference to drawings and details:</u></p> <p>Where drawings and/ or details have been referred to Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained.</p> <p><u>Descriptions:</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers.</p> <p>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete.</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.</p> <p>All structural steelwork shall be fabricated and erected in accordance with SABS 1200 H, SABS 0162-1993 and the project specification. Welding shall conform to AWS D1.1-90 specification. Butt-welds shall develop the full strength of the elements joined. All welding to be 6mm continuous fillet weld unless otherwise shown. Welding electrode to be E70XX unless noted otherwise. All dimensions shall be checked on site by the steelwork contractor before shop drawings commence. Any discrepancies shall be brought to the attention of the Engineer. A complete set of shop drawings shall be submitted to the Engineer for approval before fabrication commences. All structural steelwork shall be grade 350W except for cold rolled purlins and girths where commercial quality steel may be used if approved by the Engineer.</p>				
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	Unit	Quantity	Rate	Amount
<p>All structural steel bolts shall be M16 Grade 8.8 unless noted otherwise. A minimum of two bolts per connection to be used unless noted otherwise. Where temporary bracing or propping is necessary, the contractor shall be responsible for the design, maintenance and removal of such supports. If splices in steel members are required for transport or manufacture, proposals for this will be submitted to Engineer for approval. Base plates shall be grouted with a cementitious non-shrink grout with a minimum crushing strength of 40MPa. Grouting must take place before the primary loads are applied to the structure. Refer to grout specification. HSFG bolts are to be tightened by the "turn of nut" method as per SABS 0162 PART 1-1993. all friction surfaces are to be blast-cleaned and unpainted and must be protected against corrosion until the connection is made. The contractor must supply a method statement to the Engineer for approval.</p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013</p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013</p> <p><u>GALVANISED STEEL COLUMNS AND BEAMS</u></p> <p><u>Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete</u></p>				
1 75 x 75 mm Square tubing support, 9.6kg per metre	Tonnes	1,00		
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BILL NO. 11
STRUCTURAL STEELWORK
COLLECTION

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	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>NEW BUILDINGS</u></p> <p><u>BILL NO. 12</u></p> <p><u>PLASTERING</u></p> <p><u>PREAMBLES</u></p> <p>For Preambles the tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A July 2013) and Particular Specification (PW371-B July 2013)</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Moisture tests:</u></p> <p>Before any finishes, coverings, etc are applied to screeds, plastering, etc or any other in-situ finish moisture tests are to be carried out to the complete satisfaction of the Principal Agent to ensure that these surfaces have the correct moisture content for the finish to be applied</p> <p><u>Labours, etc.:</u></p> <p>Labours such as fair, rounded and chamfered edges, trowel cuts, throats, V-joints, angles, etc shall be deemed to be included in the descriptions</p> <p><u>Granolithic:</u></p> <p>Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour.</p> <p>Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying.</p> <p>Granolithic shall be laid in panels not exceeding 14m\`b2 for monolithic finishes, not exceeding 9,5m\`b2 for bonded finishes and not exceeding 6m\`b2 for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width.</p> <p>Unless otherwise described, granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic.</p>				
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PLASTERING
COLLECTION

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	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>NEW BUILDINGS</u></p> <p><u>BILL NO. 13</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Wire gratings:</u></p> <p>Descriptions of gutter outlets etc. shall be deemed to include wire balloon gratings</p> <p><u>Stormwater channels:</u></p> <p>Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc., and disposal of surplus material on site</p> <p><u>French drains:</u></p> <p>Descriptions of French drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, ? geofabric filter blanket over stone, 300mm earth filling over and disposal of surplus material on site</p> <p>Descriptions of French drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, Approved geofabric filter blanket over stone, 300mm earth filling over and disposal of surplus material on site</p> <p><u>Stainless steel basins, sinks, wash troughs, urinals, etc.:</u></p> <p>Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0) Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc. shall be Type 304 (18/8) Stainless steel for laboratory sinks, photographic equipment, etc. shall be Type 316 (18/8) Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><u>Sealing of edges:</u></p> <p>Outer edges of sinks, basins, baths, urinals, etc. are to be sealed against adjacent surfaces with approved silicone</p>				
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	Unit	Quantity	Rate	Amount
<p><u>Fixing of pipes:</u></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc., casting in, building in or suspending not exceeding 1m below suspension level</p> <p><u>Paper wrapping to pipes:</u></p> <p>Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings</p> <p><u>Disinfection of water pipework:</u></p> <p>Water pipework is to be disinfected at completion in accordance with SABS 1200L (provision for disinfection elsewhere)</p> <p><u>Laying, backfilling, bedding, etc. of pipes:</u></p> <p>Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled</p> <p>Where no manufacturers' instructions exist, pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following: SABS 1200L : Medium-pressure pipelines SABS 1200LD : Sewers SABS 1200LE : Stormwater drainage Pipe trenches, etc. shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200LB : Bedding (Pipes) Unless otherwise described bedding of rigid pipes shall be Class B bedding</p> <p><u>General:</u></p> <p>Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc. are given separately) Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends</p> <p>Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc. shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site</p> <p>Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc. and to steel pipes (adaptors for connections to copper pipes, etc. are given separately)</p>				
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		Unit	Quantity	Rate	Amount
	Descriptions of WC pans, slop hoppers, etc. shall be deemed to include for joints to soil pipes (pan connectors are separately measured)				
	<u>As-built drawings</u>				
	Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)				
	<u>RAINWATER DISPOSAL</u>				
	<u>0.6mm Thick seamless pre-painted aluminium Ogee Gutters and accessories:</u>				
1	125mm x 85mm x 0.6mm Ogee profile gutters, including fixing to fiber cement fascia, with heavy duty fixing brackets.	m	40		
2	Extra over for stop ends.	No	4		
3	Extra over for outlet for 75mm x 50mm pipe.	No	4		
4	Rainwater down pipes.	m	12		
5	Extra over rainwater down pipe for bend.	No	4		
6	Extra over rainwater down pipe for shoe.	No	4		
7	Extra over rainwater pipe for eaves or plinth offset maximum 500mm projection.	No	4		
	<u>SANITARY FITTINGS</u>				
	<u>'Atlas plastics' or equally approved:</u>				
8	'Christy hand wash basin' overall size 570mm x 400mm x 245mm deep plastic wall mounted wash hand basin including bolting to wall	No	5		
9	Moulded polyethylene pedestal with incorporated seat and flap (code 222AP), size 387mm x 518mm high with foot piece and VIP 200 inlet funnel (code 224AP).	No	6		
10	Franke or Equally Approved stainless steel curved back urinal size 915mm x 305mm x 1264mm high automatic flushing with built in tipping tank and one 12mm adjustable drip cork, 100mm centre waste outlet, bolted to walls with anchor bolts	No	4		
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	<u>Sanitary Accesssories:</u>				
11	Standard vandal proof 2 roll holder (TR2) white including plugging to wall with mild steel wall screws with PVC wall anchors.	No	6		
	<u>32mm Diameter stainless steel grab rails in disabled toilets:</u>				
12	Dogleg side rail with center flange.	No	2		
13	750mm Long back rail.	No	2		
	<u>TAPS, VALVES, ETC</u>				
	<u>Cobra or similar approved:</u>				
14	15mm Stopcock.	No	11		
15	35mm Stopcock.	No	4		
	<u>'Cobra Watertech' or equally approved:</u>				
16	15mm Disabled tap chrome plated with long handle (COLD WATER ONLY).	No	2		
17	40mm 360 CP bottle trap	No	10		
	<u>SANITARY PLUMBING</u>				
	<u>uPVC Pipes:</u>				
18	40mm Pipes.	m	20		
19	110mm Pipes laid in and including trenches not exceeding 1m deep under surface beds.	m	20		
	<u>Extra over uPVC pipes for fittings or equally approved:</u>				
20	40mm Fittings	No	10		
21	110mm Fittings	No	10		
22	160mm Air vent pipe 3.8m long painted black with fly-screen vent cowl held together with master-bat.	No	6		
	<u>WATER SUPPLIES</u>				
	<u>Polypropylene pipes:</u>				
23	15mm Pipes.	m	50		
24	35mm Pipes.	m	50		
	<u>Extra over polypropylene pipes for brass compression fittings:</u>				
25	15mm Fittings.	No	10		
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PLUMBING AND DRAINAGE
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<u>SECTION NO. 3</u> <u>NEW BUILDINGS</u> <u>BILL NO. 14</u> <u>GLAZING</u> <u>PREAMBLES</u> For Preambles the tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A July 2013) and Particular Specification (PW371-B July 2013) <u>SUPPLEMENTARY PREAMBLES</u> <u>Float glass:</u> The term 'float glass' is used for monolithic annealed glass <u>Laminated glass:</u> Laminated glass to have polyvinyl butyral (PVB) interlayer(s) <u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u> <u>6mm Thick silvered float glass copper backed</u> <u>mirrors with polished edges holed for and fixed with</u> <u>chromium plated dome capped mirror screws with</u> <u>rubber buffers to plugs in brickwork:</u> 1 Mirror 600 x 400 mm high with four 35mm screws.				
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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>NEW BUILDINGS</u> <u>BILL NO. 15</u> <u>PAINTWORK</u> <u>PREAMBLES</u> For Preambles the tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A July 2013) and Particular Specification (PW371-B July 2013) <u>SUPPLEMENTARY PREAMBLES</u> <u>Painting specification:</u> All painting shall be done in accordance with SABS specifications unless otherwise described All painting shall be Plascon/Dulux <u>Colours:</u> Unless otherwise described, all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SABS 1091 When staining timber, the resultant colour or shade must be to the complete satisfaction of the Principal Agent before any overcoating or preservative is applied <u>ON INTERNAL PLASTER SURFACES</u> <u>Prepare surfaces and remove all loose material,</u> <u>apply one coat alkali resistant primer and two coats</u> <u>"Dulux Wash & Wear" paint or similar approved for</u> <u>interior use:</u> 1 On walls m ² 249 2 On narrow widths m ² 12 <u>ON FIBRE-CEMENT BOARD SURFACES</u> <u>One coat alkali resistant primer and two coats</u> <u>superior quality acrylic emulsion paint for interior</u> <u>and exterior use:</u> 3 On ceilings m ² 36 4 On cornices m 46 5 Fascias and barge boards, including priming metal jointing strips m ² 16 Carried to Collection				
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PAINTWORK
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<u>NEW BUILDINGS</u>			
<u>SECTION SUMMARY</u>			
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2	CONCRETE, FORMWORK AND REINFORCEMENT	79	
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6	CARPENTRY AND JOINERY	90	
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SECTION NO. 4
EXTERNAL WORKS

EMIS No. 500 138 232

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u> <u>EXTERNAL WORKS</u> <u>BILL NO. 1</u> <u>PRE-FABRICATED CLASSROOMS</u> The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines <u>SUPPLEMENTARY PREAMBLES</u> <u>Reference to drawings and details:</u> Where drawings and/ or details have been referred to in the description of items the Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained. <u>Materials:</u> <u>The Bidder must take cognisance of the fact that these temporary structures are to be constructed with NEW and not USED materials, or material from demolitions.</u> <u>Pricing of temporary structures:</u> Rates for the construction of temporary structures should include the cost of demolition of the structures upon instruction. 1 Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc. and trees not exceeding 200mm girth 2 Stripping average 200mm thick layer of top soil and depositing material in prescribed stock piles on site and/or carting away to dump site selected by contractor <u>SITE CLEARANCE ETC</u> <u>EXCAVATION, ETC.</u> <u>Excavation in earth not exceeding 2m deep to reduced levels</u> 3 Over site to form platforms <u>Extra over all excavations for carting away:</u> 4 Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor Carried to Collection				
	m ²	310		
	m ²	310		
	m ³	140		
	m ³	140		
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	Unit	Quantity	Rate	Amount
<u>EARTH FILLING, ETC.</u>				
<u>KEEPING EXCAVATION FREE OF WATER</u>				
<u>Keeping excavations free of water:</u>				
5	Item			
Keeping excavations free of all water other than subterranean water				
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 96% Mod AASHTO density:</u>				
6	m³	47		
Over site to form platforms				
<u>Filling with approved G7 material supplied and carted onto site by the Contractor, compacted in 150mm layers to a minimum density of 93% Mod. AASHTO maximum density:</u>				
7	m³	47		
Over site in platforms				
<u>Filling with approved G5 material supplied and carted onto site by the Contractor, compacted in 150mm layers to a minimum density of 93% Mod. AASHTO maximum density:</u>				
8	m³	47		
Over site in platforms				
<u>TEMPORARY CLASSROOMS</u>				
<u>Modular Prefabricated Temporary Buildings.</u>				
9	No	1		
5 x Classroom Block size 35 000mm x 7 000mm x 2 700mm high, constructed of minimum 75mm insulated wall panels complete with 0.56mm Corrugated roof sheeting with 'Factorylite' white bubble foil insulation or similar, PVC gutters and (4x) down pipes with shoes, adjustable jacks where required compacted filling, insulated panel doors, door frames, aluminium windows, ironmongery, vinyl floor sheeting, chalk boards, pinning boards, electrical Installation, light fittings, plug points, lighting protection and prepare to make ready for use, all inclusive as per the Architects drawing attached at the back of these Bills of Quantities.				
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PRE-FABRICATED CLASSROOMS
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<u>SECTION NO. 4</u>				
<u>EXTERNAL WORKS</u>				
<u>BILL NO. 2</u>				
<u>STORMWATER DRAINAGE</u>				
<u>STORMWATER DRAINAGE</u>				
<u>PREAMBLES</u>				
The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines				
<u>SUPPLEMENTARY PREAMBLES</u>				
Supplementary Preambles from relevant trades/Bills in this tender document are applicable to items in this section.				
<u>Reference to drawings and details:</u>				
Where drawings and/ or details have been referred to in the description of items the Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained.				
<u>EARTHWORKS</u>				
<u>Excavation not exceeding 2m deep:</u>				
1	Trenches and holes.	m ³	225	
<u>Surplus material from excavations or stock piles on site, to a dumping site to be located by the contractor:</u>				
2	Off site to a dumping site to be located by the Contractor.	m ³	225	
<u>FILLING, ETC</u>				
<u>Compaction of surfaces:</u>				
3	Compaction of ground under channels, including scarifying for depth of 150mm, breaking down oversize material, adding suitable material where necessary and compact to 93% MOD ASSHTO density.	m ²	501	
Carried to Collection				R

		Unit	Quantity	Rate	Amount
	<u>STORMWATER CHANNELS</u>				
	<u>In-situ concrete 25Mpa/19 stone open stormwater channels having V shaped waterway formed in top, finished smooth on all exposed surfaces in (3:1) untinted cement plaster trowelled smooth and with angles rounded and, cast in suitable lengths, including all formwork, moulds, shallow excavation, 150mm selected gravel filling compacted to 95% Mod AASHTO density and ramming, laying to falls, forming construction joints at maximum 3m, bedding and pointing in (3:1) cement mortar:</u>				
4	Channel size 900mm wide x 150mm thick with 75 mm deep v-channel waterway.	m	10		
5	Extra over for angle.	No	2		
	<u>In-situ concrete 25Mpa/19 stone open stormwater channels having V shaped waterway formed in top, finished smooth on all exposed surfaces in (3:1) untinted cement plaster trowelled smooth and with angles rounded and, cast in suitable lengths, including all formwork, moulds, shallow excavation, 150mm selected gravel filling compacted to 95% Mod AASHTO density and ramming, laying to falls, forming construction joints at maximum 3m, bedding and pointing in (3:1) cement mortar:</u>				
6	Channel size 1500mm wide x 150mm thick with 75 mm deep v-channel waterway.	m	334		
7	Extra over for angle.	No	20		
	<u>SPREADERS, ETC.</u>				
	<u>20Mpa/19mm Concrete:</u>				
8	Triangular water spreader as channel outlet 2000mm wide x 1 240mm long x 150mm thick including 150 x 150mm raised edges and ten 150 x 150 x 150mm energy dispersing concrete bricks set in concrete and slightly protruding to follow the general shape of the spreader.	No	10		
	<u>MESH REINFORCEMENT</u>				
	<u>Fabric Reinforcement:</u>				
9	Type 193 fabric reinforcement in V- Channels, etc.	m ²	501		
	<u>SUNDRIES, ETC.</u>				
	<u>Joint forming material in movement joints:</u>				
10	10mm Bitumen impregnated fibre board vertically between concrete surfaces.	m	250		
	Carried to Collection				
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BILL NO. 2
STORMWATER DRAINAGE
COLLECTION

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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u> <u>EXTERNAL WORKS</u> <u>BILL NO. 3</u> <u>WALKWAYS, ETC.</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p>SUPPLEMENTARY PREAMBLES</p> <p>Supplementary Preambles from relevant trades/Bills in this tender document are applicable to items in this section.</p> <p><u>Reference to drawings and details:</u></p> <p>Where drawings and/ or details have been referred to in the description of items the Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained.</p> <p><u>EARTHWORKS</u></p> <p><u>Excavation not exceeding 2m deep:</u></p> <p>1 Trenches and holes. m³ 127</p> <p>2 Trenches and holes for thickening under surface beds. m³ 8</p> <p><u>Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor:</u></p> <p>3 Off site to a dumping site to be located by the Contractor. m³ 127</p> <p><u>Keeping excavations free of water:</u></p> <p>4 Keeping excavations free of all water other than subterranean water. Item</p> <p><u>EARTH FILLING, ETC.</u></p> <p><u>Filling with approved 150mm G4 material, stabilised with 3% cement, supplied and carted onto site by the contractor, compacted to a density of at least 95% Mod. AASHTO maximum density:</u></p> <p>5 Under walkways, ramps, e.t.c. m³ 42</p> <p>Carried to Collection</p>				
R				
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		Unit	Quantity	Rate	Amount
	<u>Filling with approved 150mm G7 material supplied and carted onto site by the Contractor, compacted to a density of at least 95% Mod. AASHTO maximum density:</u>				
6	Under walkways, ramps, e.t.c.	m ³	42		
	<u>Surface Preparation:</u>				
7	Trim and level off surface of ground (excavated or filled under this Contract or any other contract) to receive concrete surfaces beds, including excavating or filling, ripping and scarifying as necessary and compacting the whole area for a depth of 150mm to a density of at least 95% Mod.AASHTO maximum density.	m ²	282		
	<u>CONCRETE</u>				
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
8	Under walkways, ramps, e.t.c.	m ³	117		
9	Thickening under surface bed.	m ³	8		
	<u>Finishing to surfaces of concrete smooth with a wood float:</u>				
10	To walkways, ramps, e.t.c.	m ²	282		
	<u>FORMWORK</u>				
	<u>Smooth Formwork (Degree of Accuracy II):</u>				
11	Edges, risers, ends and reveals not exceeding 300mm high.	m	376		
	<u>MOVEMENT JOINTS, ETC.</u>				
	<u>Construction joints:</u>				
12	8 x 12mm Saw-cut joints in top of concrete.	m	141		
	<u>REINFORCEMENT (PROVISIONAL) (CPAP Work Group No. 114)</u>				
	<u>Fabric Reinforcement:</u>				
13	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m ²	282		
	<u>DAMPPROOFING OF WALLS AND FLOOR</u>				
	<u>One layer 250 micron gunplas black polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape:</u>				
14	Under walkways, ramps, e.t.c.	m ²	282		
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BILL NO. 3
WALKWAYS. ETC.
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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u> <u>EXTERNAL WORKS</u> <u>BILL NO. 4</u> <u>FENCING</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <u>SUPPLEMENTARY PREAMBLES</u> <p>Supplementary Preambles from relevant trades/Bills in this tender document are applicable to items in this section.</p> <u>Reference to drawings and details:</u> <p>Where drawings and/ or details have been referred to in the description of items the Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained.</p> <u>EXCAVATION, ETC.</u> <u>Excavation in earth not exceeding 2000mm deep:</u>				
1	Trenches and holes.	m ³	7	
<u>Extra over excavation in earth for excavation in:</u>				
2	Soft rock.	m ³	1	
3	Hard rock.	m ³	1	
<u>Extra over all excavations for carting away:</u>				
4	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor.	m ³	7	
<u>Keeping excavations free of water:</u>				
5	Keeping excavations free of all water other than subterranean water.	Item		
<u>Risk of collapse of excavations, other than bulk:</u>				
6	Sides of trench and hole excavations not exceeding 1,5m deep.	m ²	66	
<u>Soil insecticide in accordance with SANS 5859:</u>				
7	To bottoms and sides of trenches, ground beams, etc.	m ²	25	
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		Unit	Quantity	Rate	Amount
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>20MPa/19mm concrete:</u>				
8	450 x 450 x 300mm Deep bases.	m ³	7		
	<u>FENCING (Stork Fence)</u>				
	<u>'Class A' Galvanised Gates:</u>				
	<u>FENCING (Stork Fence)</u>				
9	1800mm high Diamond wire mesh including 1800mm high intermediate posts and stay poles, droppers, straining wires, diamond mesh, etc. 50mm diameter galvanised frame with 50mm mesh and 450 x 450 x 600mm deep concrete footing installed complete, and excavations for poles, holes etc. and, all complete as per architects specifications.	m	365		
	<u>'Class A' Galvanised Fencing Post, Etc.:</u>				
10	100mm Diameter x 2.5mm galvanised steel intermediate fencing post 2800mm long, with pressed steel mushroom cap and 150 x 150 x 3mm baseplate at bottom, including embedding bottom end in 450 x 450 x 600mm mass concrete (20MPa) bases projecting 50mm above ground with splayed canners all round. (bases elsewhere)	No	122		
11	50mm Diameter x 2.5mm galvanised raking strut 2400mm long, with 150 x 150 x 3mm base plate at bottom end and with top end fattened and bolted through post, including embedding bottom end in 450 x 780 x 600mm deep mass concrete (20MPa) base projecting 50mm above ground with spayed canners all round (bases elsewhere)	No	37		
12	100mm Diameter x 2.5mm galvanised steel, corner and gate post 2800mm long, with pressed steel mushroom cap and 150 x 150 x 3mm base plate at bottom, including embedding bottom end in 450 x 450 x 600mm mass concrete (20MPa) bases projecting 50mm above ground with splayed conners all round (bases elsewhere)	No	4		
13	8mm Diameter x 100mm long galvanised mild steel bolts, including nut, washers and forming holes through post.	No	610		
14	12mm Diameter x 110mm long galvanised mild steel straining eye bolts, including nut, washers and forming holes through post.	No	154		
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FENCING
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	Unit	Quantity	Rate	Amount
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<u>EXTERNAL WORKS</u>				
<u>BILL NO. 5</u>				
<u>ELEVATED TANK STAND</u>				
<u>PREAMBLES</u>				
The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013				
<u>Site clearance:</u>				
1				
Allow for clearing site including removing trees, shrubs etc. not exceeding 200mm girth, grubbing up roots and roughly levelling.	m ²	34		
<u>Excavations in earth not exceeding 2m deep in :</u>				
2				
Holes	m ³	8		
<u>Extra over trench and hole excavations in earth for excavation in:</u>				
3				
Soft rock	m ³	1		
4				
Hard rock	m ³	1		
<u>Extra over all excavations for carting away:</u>				
5				
Surplus material from excavations or stock piles on site to a dumping site to be located by the contractor.	m ³	5		
<u>Risk of collapse of excavations:</u>				
6				
Sides of trench and hole excavations not exceeding 1,5m deep.	m ²	32		
<u>Keeping excavations free of water:</u>				
7				
Keeping excavations free of all water other than subterranean water	Item			
<u>EARTH FILLING, ETC.</u>				
<u>Filling with material from excavations compacted to a density of at least 96% Mod. AASHTO maximum density:</u>				
8				
Backfilling to trenches, holes, etc.	m ³	1		
Carried to Collection				R

		Unit	Quantity	Rate	Amount
	<u>Filling with approved 150mm G5 material, stabilised with 3% cement, supplied and carted onto site by the contractor, compacted to a density of at least 95% Mod. AASHTO maximum density:</u>				
9	Under foundations	m ³	2		
	<u>Filling with approved 150mm G7 material supplied and carted onto site by the Contractor, compacted to a density of at least 95% Mod. AASHTO maximum density:</u>				
10	Under foundations	m ³	2		
	<u>Surface Preparation:</u>				
11	Under foundations	m ²	4		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide:</u>				
12	To bottoms and sides of trenches, holes etc.	m ²	4		
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>10MPa/19mm Concrete:</u>				
13	Surface blinding	m ³	1		
	<u>REINFORCED CONCRETE</u>				
	<u>30MPa/19mm Concrete:</u>				
14	1000mm x 1000mm x 1000mm Bases	m ³	4		
15	Ditto, but in 300mm x 300mm x 200mm Bases	m ³	1		
	<u>TEST CUBES</u>				
	<u>Test cubes:</u>				
16	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional).	No	1		
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>				
	<u>Smooth formwork to sides:</u>				
17	Columns not exceeding 300mm high	m	5		
18	Ditto, but 1000mm x 1000mm x 1000mm columns	m ²	16		
	Carried to Collection				
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		Unit	Quantity	Rate	Amount
	<u>STRUCTURAL STEELWORK</u>				
	<u>Galvanised welded columns, struts, floor beams, planks, bracing, clamps, in single lengths with flat section base and connection plates bolted to steel:</u>				
19	Provide the sum of R 160 000.00 (One Hundred and Sixty Thousand Rand) for Tank Stand for the Supply and Installation of Galvanised welded columns, struts, floor beams, planks, bracing, clamps, in single lengths with flat section base and connection plates bolted to steel including complete paintwork to be used at the discretion of the Employer and deducted in whole or in part if not required.	Item			160 000 00
20	Profit	Item			
21	Allow for general attendance.	Item			
	<u>TANKS ETC.</u>				
22	5000 Litre polyethylene moulded vertical water storage tank (2040mm high x 1800mm diameter) complete with lid, 50 x 40 ND nylon reducing bushes sealed into all inlets and outlets, including a 40 ND MGI plug fitted to opening above inlet, setting in position on galvanised steel tank tower platform (tower and platform e/m) and tying down with 4mm diameter galvanised wire wrapped twice around centre of tank and secured to each corner of tank stand with a double strand of 4mm diameter galvanised wire tied to steel lugs (lugs e/m). (Note: tanks to be filled with water before Practical Completion).	No	3		
	<u>Sundries:</u>				
23	Tank fixing lug 50mm flat bar 5 x 10mm long with 1 x 20mm diameter hole welded to floor beam (floor beam elsewhere measured).	No	12		
24	Pipe clamps to Engineer's detail	No	18		
	<u>TAPS, VALVES, ETC</u>				
	<u>'Cobra-Watertech' or other equally approved:</u>				
25	50mm Brass female threaded fullway gate valve	No	8		
26	65mm Brass female threaded fullway gate valve	No	1		
	<u>SANITARY PLUMBING</u>				
	<u>Class 12 UPVC pressure pipes:</u>				
27	63mm diameter piping	m	10		
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		Unit	Quantity	Rate	Amount
	<u>WATER SUPPLIES</u>				
	<u>Galvanised steel piping as described for water supply:</u>				
28	50mm MGI main water piping threaded on both ends including short lengths and jointing, fixed to galvanised steel water tank tower by pipe clamps (steel tower and clamps e/m).	m	400		
	<u>Extra over galvanised steel pipes for steel fittings:</u>				
29	63 ND PVC Cast Iron Flange Adaptor	No	3		
30	65mm Galvanised steel screw-on-flange	No	3		
31	65mm 90 Degree MGI male/female bend	No	3		
32	65mm 90 Degree MGI female bend	No	9		
33	65mm MGI conical seat union.	No	3		
34	65mm MGI barrel nipple.	No	3		
35	65 ND x 2800mm Long MGI pipe piece threaded both ends.	No	3		
36	50mm MGI barrel nipple.	No	3		
37	65 x 65 x 65 ND MGI female equal tee.	No	3		
38	65 x 65 ND MGI reducing bush.	No	3		
39	50 ND X 50 BSP male adaptor compression fitting.	No	2		
40	50 ND x 40 BSP male elbow compression fitting.	No	5		
41	50mm 90 Degree elbow compression fitting.	No	5		
42	50mm MGI hollow plug.	No	3		
43	65 ND x 330mm Long MGI pipe piece threaded both ends.	No	3		
44	65 ND x 475mm Long MGI pipe piece threaded both ends.	No	2		
45	65 ND x 1020mm Long MGI pipe piece threaded both ends.	No	1		
46	65 ND x 2000mm Long MGI pipe piece threaded both ends.	No	1		
47	65 ND x 3150mm Long MGI pipe piece threaded both ends.	No	2		
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		Unit	Quantity	Rate	Amount
48	65 ND x 2800mm Long high density polyethylene Type IV Class 10 pipe (to SABS 533).	No	1		
49	50 ND x 600mm Long high density polyethylene Type IV Class 12 pipe (to SABS 533)	No	3		
50	63mm diameter piping	m	12		
	<u>MISCELLANEOUS</u>				
51	Drinking fountain comprising 25D Pre-cast stormwater pipe as supplied by "Southern Pipeline Contractor's" or similar approved, of outer diameter 360mm and wall thickness of 30mm, set on 200mm thick cast insitu concrete slab, including excavation. Stormwater pipe to be cut at 45 degree angle and filled with concrete (concrete to be shaped to form basin with steel drain grate to be epoxied to concrete lip). Inside of basin to be tiled with mosaic tiles. 110mm Diameter uPVC pipe outlet and 110mm diameter uPVC 90 degree elbow joint to be cast in concrete connected to soil drain (soil drain e/m). 25mm Diameter HDPE pipe also cast in concrete with 1/2 " cobra tank locking cock, rough brass lever and backnut (code 541-15) or similar approved including HDPE fittings connected to water supply pipe from high level tank (supply pipe and tank e/m). 80mm Thick 20MPa reinforced concrete slab 1000mm surround including wood float and formwork (if necessary), all as per attached Engineer's detail on drawing.	No	1		
52	UV Disinfection filtration and reticulation (connection between inlet rise and outlet) to Engineer's detail and specification (drawing 6068/006/016).	No	1		
	<u>TESTING</u>				
53	Allow for testing all water supplies, drains, e.t.c to the satisfaction of the Engineer. All defective work is to be taken out and replaced at the Contractor's expense.	Item			
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ELEVATED TANK STAND
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<u>EXTERNAL WORKS</u>		
<u>SECTION SUMMARY</u>		
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SECTION NO. 5
PROVISIONAL SUMS

EMIS No. 500 138 232

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 5</u></p> <p><u>PROVISIONAL SUMS</u></p> <p><u>BILL NO. 1</u></p> <p><u>PROVISIONAL SUM</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>General:</u></p> <p>Unless otherwise described, all prime cost amounts and provisional sums shall be nett. No provision for 5 percent cash discount shall be included for the main contractor.</p> <p>Prime cost amounts and provisional sums exclude value added tax.</p> <p>In the event of a prime cost amount or provisional sum being omitted the items "Allow for profit"... and "allow for attendance" applicable, shall be omitted together with the prime cost amount or provisional sum and no claim whatsoever will be entertained in this regard.</p> <p>The principal agent shall be entitled to nominate or select any further specialist and other to execute work or supply and fix any goods whether or not a provisional sum is included in the bills of quantities and such specialists and other will then be deemed to be "selected subcontractors" as the case may be.</p> <p>Where profit stated, the contractor may allow for profit if required</p> <p><u>Attendance upon nominated/selected subcontractors:</u></p> <p>The item "Allow for attendance...." which follows each provisional sum for nominated/selected subcontractors work, shall be deemed to cover all the contractors costs incurred in providing free of charge to the subcontractor the service as set out in the relevant clause in the preliminaries.</p>				
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	Unit	Quantity	Rate	Amount
<p><u>Taking delivery:</u></p> <p>Taking delivery of goods or articles by the contractor on site shall mean getting in, unpacking, checking that the quantity is correct and that the goods are complete and undamaged, submitting a report thereof to the interested parties and issuing vouchers for the receipt of such goods. The contractor is to store the goods and will be held responsible for the safety thereof and indemnify the employer against any damage or loss which may occur.</p> <p><u>Works executed under a separate/direct contract:</u></p> <p>The contractor shall permit access to the site and to the places where the work is to be carried out and provide every facility to enable the specialist to carry out his work in a workmanlike manner and in proper order and sequence.</p> <p><u>Co-ordination:</u></p> <p>The contractor shall obtain all necessary particulars of the subcontractors work timeously and the contractor will be responsible for the programming and co-ordination of the works</p> <p><u>Number of nominated/selected subcontractors:</u></p> <p>The contractors attention is drawn to the fact that the indicated individual provisional sums may consist of numerous specialist, all of which will become nominated/selected subcontractors. The contractor must therefore allow in his tender for any cost implication this may bring about, as no claims in this regard will be entertained</p> <p><u>Prime Cost:</u></p> <p>Unless otherwise described, all prime cost amounts and provisional sums shall be nett. No provision for 5 percent cash discount shall be included for the main contractor.</p> <p>Prime cost amounts and provisional sums exclude value added tax.</p> <p>In the event of a prime cost amount or provisional sum being omitted the items "Allow for profit"... and "allow for attendance" applicable, shall be omitted together with the prime cost amount or provisional sum and no claim whatsoever will be entertained in this regard.</p> <p>The principal agent shall be entitled to nominate or select any further specialist and other to execute work or supply and fix any goods whether or not a provisional sum is included in the bills of quantities and such specialists and other will then be deemed to be "selected subcontractors" as the case may be.</p>				
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		Unit	Quantity	Rate	Amount
	Where profit stated, the contractor may allow for profit if required.				
	<u>Electrical Installation:</u>				
1	Provide the sum of R 900 000.00 (Nine Hundred Thousand Rand) for Electrical Installation for the duration of the contract, to be used at the discretion of the Employer and deducted in whole or in part if not required.	Item			900 000 00
2	Profit.	Item			
3	Allow for general attendance.	Item			
	<u>Approved Asbestos Inspector:</u>				
4	Provide the sum of R 100 000.00 (One Hundred Thousand Rand) for Approved Asbestos Inspector for the duration of the contract, to be used at the discretion of the Employer and deducted in whole or in part if not required.	Item			100 000 00
5	Profit.	Item			
6	Allow for general attendance.	Item			
	<u>Community Liaison Officer:</u>				
7	Provide the sum of R100 000.00 for Community Liason Officer with stipend of R 1 00000.00 to be employed by the main contractor for the duration of the contract, to be used at the discretion of the Employer and deducted in whole or in part if not required.	Item			100 000 00
8	Profit.	Item			
9	Allow for general attendance.	Item			
	MINIMUM TARGETED ENTERPRISE DEVELOPMENT				
10	A provisional amount has been allowed for in the execution of this project as described in C3.1Project Specifications. The provisional amount allowed is for the appointment of training coordinator, mentor, training service providers and training of the beneficiary enterprises including monitoring and monthly reporting.	PS			228 569.58
11	Allowance for profit all inclusive of associated costs to the contractor for implementation.	%			
13	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%			
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PROVISIONAL SUMS
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5	PROVISIONAL SUMS	143
	ADD: CONTINGENCIES	
	Allow 5% for contingencies, to be used at the Employer's discretion in terms of Clause 17 of the Principal Building Agreement.	
	SubTotal excluding Value Added Tax	
	ADD VAT @ 15%:	
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