

Amount

SECTION NO. 1
PRELIMINARIES

JBCC PRINCIPAL BUILDING AGREEMENT

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

Contractors are referred to the above mentioned documents for the full intent and meaning of each clause thereof

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

Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"

PREAMBLES FOR TRADES

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

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

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

PRICING OF PRELIMINARIES

Pricing of Preliminaries:

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)

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

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

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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

Pricing of Preliminaries:

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)

SECTION A - PRINCIPAL BUILDING AGREEMENT

Definitions:

1 Clause 1.0 - Definitions and interpretation

Item

Objective and preparation:

2 Clause 2.0 - Offer, acceptance and performance

Item

3 Clause 3.0 - Documents

Item

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 Clause 8.0 - Works risk

Item

9 Clause 9.0 - Indemnities

Item

10 Clause 10.0 - Works insurances

Item

11 Clause 11.0 - Liability insurances

Item

12 Clause 12.0 - Effecting insurances

Item

13 Clause 13.0 - No clause

Item

14 Clause 14.0 - Security

Item

Execution:

15 Clause 15.0 - Preparation for and execution of the works

Item

16 Clause 16.0 - Access to the works

Item

17 Clause 17.0 - Contract instructions

Item

18 Clause 18.0 - Setting out of the works

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	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
19	Clause 19.0 - Assignment	Item
20	Clause 20.0 - Nominated subcontractors	Item
21	Clause 21.0 - Selected subcontractors	Item
22	Clause 22.0 - Employer's direct contractors	Item
23	Clause 23.0 - Contractor's domestic subcontractors	Item
	<u>Completion:</u>	
24	Clause 24.0 - Practical completion	Item
25	Clause 25.0 - Works completion	Item
26	Clause 26.0 - Final completion	Item
27	Clause 27.0 - Latent defects liability period	Item
28	Clause 28.0 - Sectional completion	Item
29	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
30	Clause 30.0 - Penalty for noncompletion	Item
	<u>Payment:</u>	
31	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
32	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 " All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor. Where prices are submitted by the contractor or nominated/selected subcontractors during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing.	Item
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33	Clause 33.0 - Recovery of expense and loss	Item
34	Clause 34.0 - Final account and final payment	Item
35	Clause 35.0 - Payment to other parties	Item
<u>Cancellation:</u>		
36	Clause 36.0 - Cancellation by employer - contractor's default	Item
37	Clause 37.0 - Cancellation by employer - loss and damage	Item
38	Clause 38.0 - Cancellation by contractor - employer's default	Item
39	Clause 39.0 - Cancellation - cessation of the works	Item
<u>Dispute:</u>		
40	Clause 40.0 - Dispute settlement	Item
<u>Substitute provisions:</u>		
41	Clause 41.0 - State clauses	Item
<u>Contract variables:</u>		
42	Clause 42.0 - Pre-tender information	
	Tenderers are referred to the document C1.2 Contract Data for variables pertaining to this contract	Item
43	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>		
44	Clause 1.0 - Definitions and interpretation	Item
<u>Documents:</u>		
45	Clause 2.1 - Checking of documents	Item
46	Clause 2.2 - Provisional bills of quantities	Item
47	Clause 2.3 - Availability of construction documentation	Item
48	Clause 2.4 - Interests of agents	Item
49	Clause 2.5 - Priced documents	Item
50	Clause 2.6 - Tender submission	
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	Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance (C1.1)"	Item
	<u>The site:</u>	
51	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
52	Clause 3.2 - Geotechnical investigation A copy of the geotechnical investigation report is annexed to these bills of quantities	Item
53	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
54	Clause 3.4 - Existing premises occupied	Item
55	Clause 3.5 - Previous work - dimensional accuracy	Item
56	Clause 3.6 - Previous work - defects	Item
57	Clause 3.7 - Services - known	Item
58	Clause 3.8 - Services - unknown	Item
59	Clause 3.9 - Protection of trees	Item
60	Clause 3.10 - Articles of value	Item
61	Clause 3.11 - Inspection of adjoining properties	Item
	<u>Management of contract:</u>	
62	Clause 4.1 - Management of the works	Item
63	Clause 4.2 - Programme for the works	Item
64	Clause 4.3 - Progress meetings	Item
65	Clause 4.4 - Technical meetings	Item
66	Clause 4.5 - Labour and plant records	Item
	<u>Samples, shop drawings and manufacturer's instructions:</u>	
67	Clause 5.1 - Samples of materials	Item
68	Clause 5.2 - Workmanship samples	Item
69	Clause 5.3 - Shop drawings	Item
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70	Clause 5.4 - Compliance with manufacturers' instructions	Item
	<u>Temporary works and plant:</u>	
71	Clause 6.1 - Deposits and fees	Item
72	Clause 6.2 - Enclosure of the works	Item
73	Clause 6.3 - Advertising	Item
74	Clause 6.4 - Plant, equipment, sheds and offices	Item
75	Clause 6.5 - Main noticeboard	Item
76	Clause 6.6 - Subcontractors' noticeboard	Item
	<u>Temporary services:</u>	
77	Clause 7.1 - Location	Item
78	Clause 7.2 - Water	Item
79	Clause 7.3 - Electricity	Item
80	Clause 7.4 - Telecommunication facilities	Item
81	Clause 7.5 - Ablution facilities	Item
	<u>Prime cost amounts:</u>	
82	Clause 8.1 - Responsibility for prime cost amounts	Item
	<u>Attendance on nominated/selected subcontractors:</u>	
83	Clause 9.1 - General attendance	Item
84	Clause 9.2 - Special attendance	Item
85	Clause 9.3 - Commissioning - fuel, water and electricity	Item
	<u>Financial aspects:</u>	
86	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
87	Clause 10.2 - Payment of preliminaries	Item
88	Clause 10.3 - Adjustment of preliminaries	Item
89	Clause 10.4 - Payment certificate cash flow	Item
	<u>General:</u>	
90	Clause 11.1 - Protection of the works	Item
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91	Clause 11.2 - Protection/isolation of existing/sectionally occupied works	Item
92	Clause 11.3 - Security of the works	Item
93	Clause 11.4 - Notice before covering work	Item
94	Clause 11.5 - Disturbance	Item
95	Clause 11.6 - Environmental disturbance	Item
96	Clause 11.7 - Works cleaning and clearing	Item
97	Clause 11.8 - Vermin	Item
98	Clause 11.9 - Overhand work	Item
99	Clause 11.10 - Instruction manuals and guarantees	Item
100	Clause 11.11 - As built information	Item
101	Clause 11.12 - Tenant installations	Item
<u>Schedule of variables:</u>		
102	12.1 - Pre-tender information 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
103	12.1 - Pre-tender information 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] - NO	
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	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 in 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] 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]	
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	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) YES Option B (by employer - free of charge) NO Option C (by employer - metered) NO	Item
122	12.1.18 - Telecommunications [clause 7.4] Telephone YES Facsimile NO E-mail YES	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	
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	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	
	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	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	
	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
132	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
133	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
134	PROPRIETARY BRANDED PRODUCTS	
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135	<p>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</p> <p>CONFIDENTIALITY</p> <p>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</p>	Item
136	<p>OVERTIME</p> <p>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</p>	Item
137	<p>AS BUILT DRAWINGS</p> <p>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</p>	Item
138	<p>WARRANTIES FOR MATERIALS AND WORKMANSHIP</p> <p>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.</p>	Item
139	<p>SITE INSTRUCTIONS</p> <p>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</p>	Item
140	<p>NON CESSION OF MONIES</p> <p>The contractor shall not cede nor assign his rights or claims to any monies due or to become due under this contract</p>	Item
141	<p>IMPORTED MATERIALS AND EQUIPMENT</p> <p>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)</p>	
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	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
142	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
143	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
144	AUTHORISATION FOR THE TAKING OF PHOTOGRAPHS 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.	Item
145	HIV/AIDS AWARENESS 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 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	Item
146	AWARENESS CHAMPION Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification	Item
147	AWARENESS WORKSHOPS	
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	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	Item
148	POSTERS, BOOKLETS, VIDEOS, ETC. 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	Item
149	ACCESS TO CONDOMS 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	Item
150	CO-OPERATION OF CONTRACTOR FOR COST MANAGEMENT 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	Item
151	MONITORING 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	Item
152	REPORTING BY CONTRACTOR The contractor is required to complete the attached Contractor's Monthly Report which is to be submitted together with the contractor's payment claim. Payment of the contractor is conditional on this information being accurate and timeously provided	Item
153	PLANT RECORDS 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	Item
154	LOCAL LABOUR Allow for monthly submission of proof of employment of local skilled and unskilled labour to the principal agent.	
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	<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 youth. 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>	
155	<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
156	<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
157	<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
158	<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, 2014 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>	
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<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> <ul style="list-style-type: none"> - Comply with the health and safety specification for the works - Prepare and agree with the health and safety consultant the health and safety plan for the works - Co-operate with the health and safety consultant in all respects - Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification - Conform to the conditions contained in the employer's health and safety specification 	
<p>159 OCCUPATIONAL HEALTH AND SAFETY MEASURES IN WORKPLACES COVID-19 (C19 OHS)</p> <p>The contractor shall comply with all the requirements set out in the COVID-19 Health and Safety Baseline Specification as contained within these tender documents and 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) in particular Hazardous Biological Agents Regulations governing workplaces in relation to Coronavirus Disease 2019 cause by SARS-CoV-2 and the COVID-19 Occupational Health and Safety Measures in Workplace COVID-19 (C19 OHS), 2020.</p> <p>It is required of the contractor to thoroughly study the COVID-19 Health and Safety Baseline Specification and Occupational Health and Safety Act, 1993 (Act No 85 of 1993) in particular Hazardous Biological Agents Regulations governing workplaces in relation to Coronavirus Disease 2019 cause by SARS-CoV-2 and the COVID-19 Occupational Health and Safety Measures in Workplace COVID-19 (C19 OHS), 2020 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 COVID-19 Health and Safety Baseline Specification as contained within these tender documents and 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) in particular Hazardous Biological Agents Regulations governing workplaces in relation to Coronavirus Disease 2019 cause by SARS-CoV-2 and the COVID-19 Occupational Health and Safety Measures in Workplace COVID-19 (C19 OHS), 2020 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>	Item
<p style="text-align: right;">Carried To Section Summary</p> <p>Section No. 1 Bill No. 1 Preliminaries</p>	R

Provision for pricing of the COVID-19 Health and Safety Baseline Specification and Occupational Health and Safety Act in particular Hazardous Biological Agents Regulations governing workplaces in relation to Coronavirus Disease 2019 cause by SARS-CoV-2 and the COVID-19 Occupational Health and Safety Measures in Workplace COVID-19 (C19 OHS), 2020 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.

Item	Amount
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SECTION NO. 1
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SECTION SUMMARY

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Section No. 1
SECTION SUMMARY

SECTION NO. 2
REFURBISHMENTS

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u> <u>REFURBISHMENTS</u> <u>BILL NO. 1</u> <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/consultantguidelines</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> <p>Doors, fanlights, fittings, frames, linings, etc. which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, 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>				
Carried to Collection			R	
<p>Section No. 2 Bill No. 1 Alterations</p>				

	Unit	Quantity	Rate	Amount
<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>				
3	No	44		
4	No	2		
<u>Taking down and removing roof trusses, fascia boards, floors, panelling, ceilings, partitions, etc.:</u>				
5	No	1		
6	No	1		
7	No	2		
8	No	1		
9	No	1		
10	No	2		
11	m ²	1 945		
12	m	59		
13	m	975		
Carried to Collection			R	
Section No. 2				
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Alterations				

	Unit	Quantity	Rate	Amount
<u>Carefully take down and remove existing Asbestos roof sheeting 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	Admin Block	m ²	246	
15	HOD Office	m ²	56	
16	Block D and E Classroom Block	m ²	1 518	
17	Kitchen Block	m ²	83	
18	Girls Ablution Block	m ²	72	
19	Boys Ablution Block	m ²	105	
<u>Taking out/off and removing sundry metalwork</u>				
20	75mm Diameter steel posts from concrete verandahs, including making good granolithic finish	m	210	
<u>Hacking up and removing granolithic screeds, plaster, etc. from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, e.t.c</u>				
21	20mm Thick on floors and landings	m ²	29	
22	30mm Screed from floors, including vinyl floor covering	m ²	1 928	
23	30mm Thick levelling screed	m ²	1 705	
24	Tiles to floors	m ²	21	
25	External and internal plaster	m ²	1 425	
26	25mm Granolithic from floors	m ²	287	
<u>Taking out and removing ironmongery</u>				
27	2400mm Wide x 1200mm high chalkboard	No	36	
<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>				
28	PVC piping not exceeding 50mm external diameter	m	250	
29	PVC piping exceeding 50mm and not exceeding 100mm external diameter	m	120	
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	Unit	Quantity	Rate	Amount
<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>				
30	No	16		
31	No	1		
32	No	14		
<u>Taking out and removing glass and mirrors</u>				
33	m ²	130		
<u>BUILDING UP OPENINGS</u>				
<u>Brickwork in NFP bricks in class II mortar in building up openings</u>				
34	m ²	14		
35	m ²	2		
<u>PREPARATORY WORK TO EXISTING SURFACES</u>				
36	m ²	423		
37	m ²	417		
38	No	7		
39	m ²	1 895		
40	m ²	362		
41	m ²	4		
<u>MAKING GOOD OF FINISHES ETC</u>				
<u>Making good of roof covering:</u>				
42	m ²	128		
Carried to Collection			R	
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	Unit	Quantity	Rate	Amount
<u>OPENINGS THROUGH EXISTING WALLS E.T.C.</u>				
<u>Breaking out and forming plain openings through brick walls, including prestressed concrete lintels, making good cement plaster on both sides and into reveals and with 20 MPa concrete thresholds with steel trowelled finish (making good paintwork elsewhere)</u>				
43	No	1		
44	m	2		
45	No	3		
46	No	1		
<u>Breaking out for and forming openings through brick walls for new doors and frames, including prestressed concrete lintels, making good cement plaster on both sides and into reveals and with 20 MPa concrete thresholds with steel trowelled finish (new doors and frames and making good paintwork elsewhere)</u>				
47	No	1		
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BILL NO. 1
ALTERATIONS
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Section No. 2
Bill No. 1
Alterations

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u> <u>REFURBISHMENTS</u> <u>BILL NO. 2</u> <u>ROOF COVERINGS</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/consultantguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>General:</u></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> <p>Galvanised roof sheets shall be finished with an approval factory applied paint coating.</p> <p><u>General installation procedure:</u></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><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 style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 2 Roof Coverings</p>			R	

	Unit	Quantity	Rate	Amount
<u>SHEET METAL FLASHING, LINING, COPING, ETC.</u>				
<u>0.8mm Galvanised steel flashings to suite IBR profile with 'Colomate' finish to match roof covering:</u>				
2	m	207		
3	m	430		
<u>ROOF INSULATION</u>				
<u>Sisalation or similar approved insulation with 150mm minimum industrial overlap laid in accordance with manufactures specification:</u>				
4	m ²	2 436		
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Section No. 2
Bill No. 2
Roof Coverings

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u> <u>REFURBISHMENTS</u> <u>BILL NO. 3</u> <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/consultantguidelines</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>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 3 Carpentry And Joinery</p>			R	

	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> <p><u>PREFABRICATED ROOF TRUSSES, ETC.</u></p> <p><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 50 x 76mm treated SA pine pirlins at maximum 750mm centers. The contractor is to confirm actual dimentions on site before fabrications:</u></p>				
<p>1 Roof construction to be double pitched roof with two gable ends measuring approximately 26 037mm x 10 391mm with 2 790mm high overall, 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</p>	No	1		
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 3 Carpentry And Joinery</p>			R	

		Unit	Quantity	Rate	Amount
2	Ditto, but to Block D and E Classroom Block measuring approximately 70 300mm x 10 786mm each	No	2		
3	Ditto, but to Typical Ablution Block measuring approximately 6 641mm x 7 540mm each	No	2		
4	Ditto, but to HOD Office Block measuring approximately 11 546mm x 3 371mm each	No	1		
5	Ditto, but to Block M - Kitchen measuring approximately 7 434mm x 7 944mm each	No	1		
6	Roof construction to be mono pitched roof measuring approximately 8 465mm x 2 594mm with 2790mm high overall, including trusses, hurricane clips, rafters, permanent bracing and 50mm x 76mm purlins at 750mm centers maximum for roof covering and 38 x 38mm cleats complete to Admin Block	No	1		
	<u>Sawn softwood grade 6:</u>				
7	Extra over exposed sawn softwood roof timber for wrought ends	m	190		
8	76mm x 114mm SAP timber wall plate	m	419		
9	50mm x 76mm SAP purlins	m	2 444		
	<u>Sawn softwood grade 5:</u>				
10	76mm x 228mm SAP laminated timber beam	m	282		
	<u>SKIRTINGS</u>				
	<u>Wrought meranti hardwood skirting plugged in:</u>				
11	19mm Meranti quadrant bead, nailed to skirting.	m	975		
12	19mm x 69mm "Arris" rounded meranti skirting or Equally Approved including fixing to walls with nail heads punched in and filled	m	975		
	<u>FRAMED DOORS ETC</u>				
	<u>SOLID HARDWOOD TIMBER DOORS</u>				
	<u>44mm 'Swartland SD14' or Similar Approved framed ledged, braced and battened door formed of 105mm x 44mm stiles ,top and mid rails 144mm x 22mm bottom tail on 67mm x 19mm tongued, grooved and V-jointed one side boarding and covered on the other side with 3mm plywood with vineer to match door let into and including rebates all around.</u>				
13	44mm x 813mm x 2032mm high door	No	4		
	Carried to Collection				
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	Carpentry And Joinery				
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		Unit	Quantity	Rate	Amount
14	813mm x 2 032mm x 40mm Solid flush panel door with hardboard on both sides including hanging to frames (frames elsewhere measured) - D01	No	1		
15	864mm x 2 032mm x 40mm Solid flush panel door with hardboard on both sides including hanging to frames (frames elsewhere measured) - D02	No	18		
16	864mm x 2 032mm x 44mm Thick approved "External" quality hardwood boarded door with 105x44 stiles, top and mid rails 144mm x 22mm bottom tail on 67mm x 19mm T&G boarding including hanging to frames elsewhere measured) - D03	No	23		
17	2 x 774mm x 2032 x 42mm Thick 'Meranti' two panel double door including 42mm x 105mm top rail and rail and styles, 42mm x 185mm middle rail, 42mm x 220mm bottom rail. Meeting styles to be rebated and 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	No	2		
	<u>CUSTOMIZED DOORS, ETC</u>				
	<u>44mm Thick 'Swartland' or similar acoustic door by specialist. Complete with all acoustic seal, including a fully morticed drop seal in the bottom of the door as per Architects drawing door schedule</u>				
18	5 250mm wide x 2 450mm high Thick Acoustic door	No	1		
	<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>				
19	Standard approved hardwood 900mm x 2 100mm x 86mm x 68mm rebated (for 42mm-44mm door thickness) and 14 x14mm 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	23		
20	Ditto, but for double door	No	2		
21	12mm x 12mm Quadrant bead, nailed to ceilings at eaves, painted white to match ceiling	m	812		
	Carried to Collection				
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		Unit	Quantity	Rate	Amount
<u>BARGE AND FASCIA BOARDS, ETC.</u>					
<u>Fibre-cement barge and fascia boards screwed in:</u>					
22	275mm x 80mm 'Nutec Everite' or Equally Approved moulded barge board, twice screwed to, and including 38mm x 38mm trimmer battens with countersunk brass screws with PVC H-profile barge board joiners between boards.	m	120		
23	225mm x 12mm 'Fibre Cement' or Equally Approved high density plain cement fascia board, twice screwed to, and including 38mm x 38mm trimmer battens with countersunk brass screws.	m	378		
<u>JOINERY FITTINGS</u>					
<u>Administration Block:</u>					
24	"Staff Room" U-shaped counter including 32mm grey granite counter top, size 17 158mm x 600mm x 750mm high, with 13 x 4mm drawer cupboards manufacture from 18mm Greythorne melamine board, side and back panels on SHELCO or other approved heavy duty brackets at 350mm centres maximum. (Actual measurement to taken on site)	No	1		
25	"Strong Room" shelves, overall size 2 926mm x 600mm wide x 2 674mm high, formed of 32mm Pine plywood, 44mm x 44mm SAP vertical and horizontal supports glued and nailed to shelving - each shelf to measure 468mm x 578mm x 600mm deep (Actual measurement to be taken on site)	No	1		
26	"Office Store" shelves, overall size 3 248mm x 600mm wide x 2 674mm high, formed of 32mm Pine plywood, 44mm x 44mm SAP vertical and horizontal supports glued and nailed to shelving - each shelf to measure 746mm x 578mm x 600mm deep (Actual measurement to be taken on site)	No	1		
27	"Store Room" shelves, overall size 5 342mm x 600mm wide x 2674mm high, formed of 32mm Pine plywood, 44mm x 44mm SAP vertical and horizontal supports glued and nailed to shelving (Actual measurement to be taken on site)	No	1		
28	Ditto, but to 4 789mm x 600mm wide x 2 674mm high	No	1		
29	Ditto, but to 2 430mm x 600mm wide x 2 674mm high	No	1		
30	L-shaped counter including 32mm grey granite counter top, size 5 450mm x 600mm wide x 750mm high, with 4 x 4 drawer cupboards manufacture from 18mm Greythorne melamine board, side and back panels on SHELCO or other approved heavy duty brackets at 350mm centres maximum. (Actual measurement to taken on site)	No	1		
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Carpentry And Joinery					
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	Unit	Quantity	Rate	Amount
<u>Dining and Nutrition Block:</u>				
31	"Store Room" shelves, overall size 1832mm x 600mm wide x 2065mm high, formed of 32mm Pine plywood, 44mm x 44mm SAP vertical and horizontal supports glued and nailed to shelving (Actual measurement to be taken on site)	No	1	
32	"Store Room" shelves, overall size 2 568mm x 600mm wide x 2 065mm high, formed of 32mm Pine plywood, 44 x 44mm SAP vertical and horizontal supports glued and nailed to shelving (Actual measurement to be taken on site)	No	1	
33	"Scullery" floor cupboard with sink" overall size 1 525mm x 600mm wide x 1 000mm high, formed of 32mm Pine plywood, 44mm x 44mm SAP vertical and horizontal supports glued and nailed to shelving (Actual measurement to be taken on site)	No	1	
34	"Kitchen serving room" floor L-shaped cupboard overall size 8 334mm x 600mm wide x 1 000mm high formed of 32mm Pine plywood, 44mm x 44mm SAP vertical and horizontal supports glued and nailed to shelving (Actual measurement to be taken on site). Cupboard drawers and doors to be 32mm Pine plywood as per Architect's Joinery Layout drawing	No	1	
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<p><u>SECTION NO. 2</u> <u>REFURBISHMENTS</u> <u>BILL NO. 4</u> <u>CEILING 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/consultantguidelines</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>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 4 Ceilings Partitions And Access Flooring</p>			R	

	Unit	Quantity	Rate	Amount
<u>CEILING , INSULATION, BEADS, E.T.C</u>				
<u>Insulation</u>				
<u>Non-combustible fibreglass insulation of a density of not less than 10kg/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 e.t.c.	m ²	1 458		
<u>Gypsum plasterboard ceilings</u>				
<u>6.4mm thick Gypsum plasterboard with 6mm 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 38mm x 38mm SA pine brandering at 400mm centres in one direction.	m ²	1 458		
3				
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	34		
<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	380		
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	4		
<u>CORNICES</u>				
<u>SA Pine cornice:</u>				
6				
75mm SA Pine cornice	m	1 194		
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Ceilings Partitions And Access Flooring				
			R	

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CEILINGS PARTITIONS AND ACCESS FLOORING

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Ceilings Partitions And Access Flooring

	Unit	Quantity	Rate	Amount
<p>SECTION NO. 2</p> <p>REFURBISHMENTS</p> <p>BILL NO. 5</p> <p>FLOOR COVERINGS</p> <p>PREAMBLES</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/consultantguidelines</p> <p>SUPPLEMENTARY PREAMBLES</p> <p>Fixing:</p> <p>Flooring sub-contractor to approve floor screeds in writing to the Principal Agent before laying of vinyl floor sheeting</p> <p>Floor coverings, wall linings, etc. shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, e.t.c.</p> <p>Sizes:</p> <p>Sizes and patterns of vinyl sheeting described hereunder may vary from the final specification</p> <p>No claim for extras in respect of additional labour or wastage will be entertained should final sizes vary from those described hereunder</p> <p>Rates:</p> <p>Rates for vinyl sheeting are deemed to include for laying in patterns in differing contracting colour AND in one or alternating tones of colours as any be specified by the Architect</p> <p>Floor coverings, wall linings, etc. shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc.</p> <p>Sizes and patterns of vinyl sheeting described hereunder may vary from the final specification</p> <p>No claim for extras in respect of additional labour or wastage will be entertained should final sizes vary from those described hereunder</p> <p><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></p>				
1	m ²	1 280		
<p>Polish, Sealers, e.t.c.</p>				
2	m ²	1 280		
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Bill No. 5				
Floor Coverings				

	Unit	Quantity	Rate	Amount
3 DDS - SS - 017 dormakaba or equally approved floor mounted door stopper	No	34		
4 CB30 Cyl S.C dormakaba or Equally Approved lever handle on plate with cylinder cut out.	No	33		
5 IBSDM or Equally Approved ironmongery by Safe door manufacture	No	1		
<u>DOOR CLOSERS</u>				
6 S73V - 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	3		
7 TS73V PA DC -PAB - SL dormakaba EN 2-4 or Equally Approved parallel Arm DELAYED ACTION Door Closer. Push Side Fixing (Parallel Arm Bracket Included)	No	2		
<u>SIGNAGE</u>				
8 250mm Diameter clear perspex Aerial font 150mm - white vinyl "H.O.D OFFICE".	No	3		
9 250mm Diameter clear perspex Aerial font 150mm - white vinyl "CLASSROOM".	No	18		
10 DSS-130 M dormakaba or Equally Approved MALE sign	No	2		
11 Ditto, but FEMALE sign	No	4		
12 Ditto, but DISABLED PERSONS sign	No	2		
<u>HANDLES</u>				
<u>Handles, e.t.c.</u>				
13 Lever handle on rose with cylinder escutcheons (code TH125 Cyl S.S or Equally Approved)	Sets	62		
14 DHP-430-BL-SF 170 x 170 dormakaba DPH301C or Equally Approved Pull Handle BT fixed on a 170mm x 170mm x 1.2mm thick Grade 430 stainless steel plate with no cylinder cutout. Stainless Steel Plate to have 4 countersunk holes for screw fixing.	Sets	3		
15 DPH301B dormakaba or Equally Approved 325mm x 25mm Straight Tubular Pull Handle Flange Fixing	Sets	4		
16 DWC-006 dormakaba or Equally Approved Disabled WC indicator (Red & White) and turn knob for physically impaired	Sets	2		
Carried to Collection			R	
Section No. 2				
Bill No. 6				
Ironmongery				

	Unit	Quantity	Rate	Amount
<u>LOCKS</u>				
<u>The following locks are to be suitable for master key operation:</u>				
17	Cylinder sash lock (code D036S SS or Equally Approved)	No	33	
18	Cylinder deadlock (code D037D SS or Equally Approved)	No	5	
19	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	2	
20	DDC206301 MK dormakaba or Equally Approved 63mm - 31.5+31.5mm Europrofile Nickel Plated E-SP 5 Pin Double Cylinder - Master Keyed	No	29	
21	DKC206301 MK dormakaba 63mm - 31.5+31.5mm Europrofile Nickel Plated E-SP 5 Pin Knob Cylinder - Master Keyed	No	4	
22	DSC204101 MK dormakaba 40.5 or Equally Approved Europrofile Nickel Plated E-SP 5 Pin Single Cylinder - Master Keyed	No	5	
23	DIB-ZST-026 or Equally Approved dormakaba Indicator Bolt	No	25	
<u>PLATES</u>				
24	DPP-430-BL-SF 170mm x 170mm dormakaba or Equally Approved 170mm x 170mm x 1.2mm thick Grade 430 stainless steel plate. Stainless Steel Plate to have 4 countersunk holes for screw fixing.	No	3	
25	DKP-430-SF 200 dormakaba or Equally Approved 200mm x 813mm x 1.2mm thick Grade 430 stainless steel kick plate. Stainless Steel Kick Plate to have 10 countersunk holes for screw fixing.	No	3	
<u>Sundry items:</u>				
26	DCE-002 S.S dormakaba or Equally Approved Round Cylinder escutcheon	No	3	
27	D038R NP dormakaba or Equally Approved Rebate conversion kit for Euro Profile locks D036S, D037D.	No	5	
28	DRP-SS-023 dormakaba or Equally Approved 62mm x 44mm Ring Flush Pull Handle	No	1	
29	DFB-SS-027 dormakaba or Equally Approved 160mm Manual flush bolt	No	10	
30	DPS-SS-032 dormakaba or Equally Approved Dust Proof Strike	No	5	
31	Other Halcast no 166 SC brass cabin hook and eye fixed to wrought iron blocks 75mm x 75mm with chamfered edges.	No	5	
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Ironmongery

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u> <u>REFURBISHMENTS</u> <u>BILL NO. 7</u> <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/consultantguidelines</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 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><u>Fixing:</u></p> <p>Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres</p> <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>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 7 Metalwork</p>			R	

	Unit	Quantity	Rate	Amount
5 Window W55 - measuring 970mm wide x 1 536mm high	No	1		
6 Window W2 - measuring 1 946mm wide x 1 195mm high	No	5		
7 Window W3 - measuring 1 511mm wide x 608mm high	No	9		
<u>GALVANISED STEEL COLUMNS AND BEAMS</u>				
<u>Galvanised Mild Steel residential type top-hung open out window frames complete with burglar proofing with 10mm diameter solid round bars, complete with 4mm frosted glazing all in accordance with Architect's specifications:</u>				
8 75mm Diameter Tubing support	Tonnes	12		
<u>BALUSTRADES E.T.C</u>				
<u>Welded and bolted patent balustrades to stairs</u>				
9 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 50mm mild steel square tube frame, complete with 50 mm diameter steel hollow tube fixed oto frame to specialist detail	m	17		
<u>STAINLESS STEEL TABLES</u>				
<u>'Franke' or Equally Approved:</u>				
10 800mm x 600mm Free standing stainless steel table on casters with below counter shelving as per Architect's Joinery Layout drawing	No	4		
11 900mm High free standing stainless steel table with adjustable shelves and sliding doors as per Architect's Joinery Layout drawing	No	1		
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<p><u>SECTION NO. 2</u> <u>REFURBISHMENTS</u> <u>BILL NO. 8</u> <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/consultantguidelines</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 14m² for monolithic finishes, not exceeding 9,5m² for bonded finishes and not exceeding 6m² 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>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 8 Plastering</p>			R	

	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>INTERNAL PLASTER</u></p> <p><u>Cement plaster on brickwork</u></p> <p>1 On walls m² 1 848</p> <p>2 On narrow widths m² 166</p> <p><u>EXTERNAL PLASTER</u></p> <p><u>Cement plaster wood floated, on brickwork</u></p> <p>3 On walls m² 1 223</p> <p>4 On narrow widths m² 104</p> <p><u>Gypsum skim plaster finishing coat</u></p> <p>5 On ceilings m² 1 458</p>				
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<p>SECTION NO. 2</p> <p>REFURBISHMENTS</p> <p>BILL NO. 9</p> <p>TILING</p> <p>PREAMBLES</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/consultantguidelines</p> <p>SUPPLEMENTARY PREAMBLES</p> <p>Fixing</p> <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> <p>FLOOR TILING</p> <p>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.</p>				
1	m ²	101		
2	m	170		
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Tiling				
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	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u> <u>REFURBISHMENTS</u> <u>BILL NO. 10</u> <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/consultantguidelines</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> <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>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 10 Plumbing And Drainage</p>			R	

	Unit	Quantity	Rate	Amount
<p><u>uPVC pipes and fittings:</u></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings</p> <p><u>uPVC pressure pipes and fittings:</u></p> <p>Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints</p> <p><u>High density polyethylene (HDPE) pipes and fittings:</u></p> <p>Pipes shall be type IV and of the class specified with Plasson or Alprene compression fittings</p> <p><u>Polycop polypropylene pipes:</u></p> <p>Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with Fast-fuse heat welded thermoplastic or where so described Polylock compression fittings Pipes shall be firmly fixed to walls, etc. with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p><u>Copper pipes:</u></p> <p>Pipes shall be hard drawn and half-hard Maksal pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be Cobra Watertech type. Capillary solder fittings shall comply with ISO 2016</p> <p>Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc. to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition</p> <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 style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 10 Plumbing And Drainage</p>			R	

	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> <p>Descriptions of WC pans, slop hoppers, etc. shall be deemed to include for joints to soil pipes (pan connectors are separately measured)</p>				
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 10 Plumbing And Drainage</p>			R	

	Unit	Quantity	Rate	Amount
<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>0.8mm Thick seamless aluminium Ogee Gutters, pre-painted ColourTech G4 in colour charcoal including cut and mitred angles covered with a mitre strip externally, stop ends riveted and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement fascia with 20mm x 3mm dual-purpose brackets at 600mm centres using aluminium peeled rivets:</u>				
1	m	438		
2	No	24		
3	No	24		
4	No	22		
5	m	66		
6	No	22		
7	No	22		
<u>TAPS, VALVES, E.T.C</u>				
8	No	19		
<u>'Cobra Watertech' or equally approved:</u>				
9	No	21		
10	No	2		
<u>SANITARY FITTINGS</u>				
<u>'Vaal' or equally approved:</u>				
11	No	2		
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Plumbing And Drainage

	Unit	Quantity	Rate	Amount
<u>TRENCHING</u>				
<u>Trenching and excavation, including backfilling and compaction, as specified 600mm deep for LV cable</u>				
21	In earth	m	163	
22	In soft rock	m	114	
23	In hard rock	m	48	
<u>Cable Terminations including gland, shroud, lugs, connection and labelling.</u>				
24	DB-BLOCK A: 25mm ² x 4 core PVC/ECC/PVC cable	No	2	
25	SDB-BLOCK C: 4mm ² x 3 core PVC/ECC/PVC cable	No	2	
26	DB-BLOCK D: 6mm ² x 3 core PVC/ECC/PVC cable	No	2	
27	SDB-BLOCK E: 10mm ² x 4 core PVC/ECC/PVC cable	No	2	
28	SDB-BLOCK F: 2,5mm ² x 3 core PVC/ECC/PVC cable	No	2	
<u>SWITCHBOARDS</u>				
<u>Supply, Installation & Connection of electrical switchboards as detailed on Drawings.</u>				
29	DB-BLOCK A	No	1	
30	DB-BLOCK C	No	1	
31	DB-BLOCK D	No	1	
32	DB-BLOCK E	No	1	
33	DB-BLOCK F	No	1	
<u>PROVISIONAL SUMS</u>				
<u>Alterations to the following DBs:</u>				
34	DB-BLOCK A	Item		
35	DB-BLOCK C	Item		
36	DB-BLOCK D	Item		
37	DB-BLOCK E	Item		
38	DB-BLOCK F	Item		
<u>Variation Rates for additions/omissions to switchboards, prior to manufacture</u>				
39	10A - 20A SP 5kA MCB	No	1	
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Electrical Works				
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	Unit	Quantity	Rate	Amount
<u>P8000</u>				
61	Duct & Cover - Fixed to surface	m	30	
62	Duct & Cover - Mounted on hangers (measured below).	m	60	
63	Elbows (Radiused)	No	1	
64	4-way Cross Over (Radiused)	No	1	
65	Tee	No	1	
66	End Caps	No	1	
67	Hangers (0 - 500mm)	No	20	
68	Hangers (500 - 1500mm)	No	1	
<u>P2000</u>				
69	Duct & Cover - Fixed to surface	m	1	
70	Duct & Cover - Mounted on hangers (measured below).	m	1	
71	Elbows (Radiused)	No	1	
72	4-way Cross Over (Radiused)	No	1	
73	Tee	No	1	
74	End Caps	No	1	
75	Hangers (0 - 500mm)	No	1	
76	Hangers (500 - 1500mm)	No	1	
<u>CABLE LADDER</u>				
<u>Type: Similar or approved equal Cabstrut CL76 All couplings and accessories to be included in the rates.</u>				
<u>100mm WIDE</u>				
77	Mounted with Hangers	m	50	
78	Elbows	No	1	
79	Dropper/Riser	No	5	
80	Tee	No	1	
81	0-500mm Trapeze Hanger	No	10	
<u>600mm WIDE</u>				
82	Mounted with Hangers	m	1	
Carried to Collection				
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		Unit	Quantity	Rate	Amount
83	Elbows	No	1		
84	Tee	No	1		
85	Dropper/Riser	No	1		
86	0-500mm Trapeze Hanger	No	1		
<u>CONDUIT AND CONDUIT ACCESSORIES</u>					
<u>GALVANISED STEEL CONDUIT</u>					
<u>Note: All surface mounted galvanised conduit shall be Epoxy Powder Coated (Power and lighting conduits to be Orange)</u>					
<u>Surface Mounted (on walls or in ceiling space)</u>					
87	20mm conduit	m	72		
<u>Galvanised Steel Conduit boxes</u>					
88	100 x 100 box chased into wall	No	76		
89	100 x 50 box chased into wall	No	198		
90	50mm diameter round box	No	22		
<u>PVC CONDUIT</u>					
<u>Surface Mounted (on walls or in ceiling space)</u>					
91	20mm conduit (lights)	m	650		
92	20mm conduit (plugs)	m	392		
93	25mm PVC conduit (data)	m	79		
94	32mm PVC conduit (data)	m	100		
<u>PVC conduit, cast in concrete, chased in walls</u>					
95	20mm conduit (lights)	m	1 518		
96	20mm conduit (plugs)	m	916		
97	25mm PVC conduit (data)	m	185		
98	32mm PVC conduit (data)	m	150		
<u>PVC Conduit boxes</u>					
99	50mm diameter PVC round box	No	271		
<u>WIRING</u>					
<u>SINGLE CORE PVC INSULATED COPPER WIRE</u>					
100	1.5mm ² single core (lights)	m	9 756		
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		Unit	Quantity	Rate	Amount
101	2.5mm ² single core (socket outlets)	m	3 924		
	<u>MULTI CORE PVC INSULATED COPPER WIRE (AIRCON POINTS)</u>				
102	2.5mm ² x 3C Black Surfex	m	1		
103	2.5mm ² x 4C Black Surfex	m	1		
	<u>DRAW WIRES</u>				
104	1.6mm Ø galvanised draw wire	m	250		
	<u>LIGHT FITTINGS AND RELATED ITEMS</u>				
	<u>LIGHT FITTINGS</u>				
	<u>Supply, Installation and Connection of the following approved light fittings including lamps, 6amp plugs-top with 3m cabtyre. 5-year guarantee</u>				
105	Type A: Recessed 18W LED Panel Downlight.	No	1		
106	Type B: 21 BULKHEAD LED 17W, 2 620lm, 4000K, White (RAL 9003), Textured finish, Stainless steel helicoil inserts	No	46		
107	Type B (E) : EM-SERIES 21, 17W LED 3hr,2 620lm/525lm (EM), 4000K, White (RAL 9003), Textured finish, Stainless steel helicoil inserts	No	1		
108	Type C: LEDflood-midi 104W, 700mA, 15 157lm, 4000K, 5120 - wide area optics. Standard finish: Unpainted aluminium	No	4		
109	Type F1: Surface LED Channel light fitting, 1200mm long. With 1* 20W Osram Led Lamps. SABS Approves.	No	11		
110	Type F2: Surface LED Channel light fitting, 1200mm long. With 2* 20W Osram Led Lamps. SABS Approves.	No	140		
111	Type F3: IP65 Surface mounted 1200 long fitting. Lighting Innovations, Duna 53w	No	3		
112	Type F4: Recessed 1200 x 600, 53W LED Panel Light fitting. Lumen Output = 6360. Colour = 4000K.	No	1		
	<u>Exit Lights: Single-sided wall mounted (Integrated clip-on wall mount plate with plug-in terminal block.). 3Hr Maintained Mode. 130 Lumen. Similar or equal to Beka D-ecoLD P130-3, 3hr, 130lm</u>				
113	"EXIT" - ECO124	No	1		
114	Man running to Exit Door: ECO112/113	No	1		
115	Man running to Stairs: ECO114/115	No	1		
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	Unit	Quantity	Rate	Amount
<u>DAYLIGHT SENSING PHOTOCELL</u>				
116	Ross Thompson - Plug-in type	No	6	
<u>SWITCHES SOCKET OUTLETS AND POWER POINTS</u>				
<u>LIGHT SWITCHES</u>				
<u>Note: All flush switches shall be supplied complete with coverplates and be fitted to conduit boxes measured elsewhere. Industrial switches to be supplied complete with surface mounting box and be painted orange. All equipment rated 16A minimum.</u>				
117	1-way single lever flush	No	50	
118	2-way single lever flush	No	6	
119	Touch-Dim Switch	No	1	
120	1-way single lever flush with pilot light (for store rooms and ventilation fans)	No	6	
<u>OCCUPANCY SENSOR</u>				
<u>Supply and install occupancy sensor at position shown on the engineers drawings.</u>				
121	Ceiling mounted PIR & Ultrasonic presence/absence detector.	No	1	
<u>16A 3-PIN SWITCHED SOCKET OUTLETS</u>				
<u>Note: All flush socket outlets shall be supplied complete with coverplates and be fitted to conduit boxes measured elsewhere. Industrial switches to be supplied complete with surface mounting box and be painted orange. All equipment rated 16A minimum.</u>				
122	Combo 16A 3-Pin with 2+E Pin Combined Switched Socket Outlet.	No	52	
123	3-pin 16A flush duo	No	6	
124	3-pin 16A ded flush	No	6	
125	2-pin (+E) 16A switched euro socket with cover and cradle for above power skirting	No	6	
126	RJ 45 Flush - Flush	No	3	
127	RJ 45 Telephone - Flush	No	3	
<u>UNSWITCHED SOCKET OUTLETS</u>				
128	3-pin 6A unswitched socket outlet, mounted in round conduit box (box measured elsewhere)	No	200	
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		Unit	Quantity	Rate	Amount
129	Industrial 3-pin 6A unswitched socket outlet, mounted in round conduit box (box measured elsewhere)	No	1		
<u>CEILING MOUNTED SWAP FANS WITH CONTROLLERS</u>					
<u>Supply and install 1422 mm Dia. Ceiling Sweep Fan, 4 blade, 220V,AC 1Phase complete with a 4-speed controller flush wall mount.</u>					
130	Ceiling Sweep Fan	No	66		
131	4-speed Fan Controller	No	66		
<u>ISOLATORS</u>					
132	Geysler/Fan Isolator : 60A DP Surface mounted isolator.	No	1		
133	Aircon Isolator : 20A DP Surface mounted Isolator. Weatherproof and Lockable. IP56.	No	1		
134	Aircon Isolator : 60A TP Surface mounted Isolator. Weatherproof and Lockable. IP56.	No	1		
135	Hand Drier: 60A flush type single phase isolator.	No	1		
136	Other Isolator : 20A DP Surface mounted Isolator. Weatherproof and Lockable. IP56.	No	1		
137	Other Isolator : 60A TP Surface mounted Isolator. Weatherproof and Lockable. IP56.	No	1		
138	Complete, IP65 Emergency stopping ISO 13850 compliant, twist release. Complete with surface mount box.	No	1		
<u>POWER SKIRTING AND ACCESSORIES</u>					
<u>OBO PVC POWERSKIRTING, Colour: Grey</u>					
139	Power skirting with covers (fixed to surface)	m	40		
140	Internal angle	No	2		
141	External angle	No	1		
142	Horizontal Bend	No	1		
143	End caps	No	14		
144	3-pin 16A socket outlet with cover and cradle for above power skirting	No	12		
145	3-pin 16A dedicated switched socket outlet with cover and cradle for above power skirting	No	19		
Carried to Collection					
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		Unit	Quantity	Rate	Amount
146	2-pin (+E) 16A switched euro socket with cover and cradle for above power skirting	No	11		
147	Tel Points: RJ11 + RJ45 combo	No	16		
	<u>LIGHTNING PROTECTION</u>				
148	Earth Spikes: 1.5m long SABS approved earth spike, complete with brass clamp and 70mm ² BCEW tail piece.	No	36		
149	Termination of 70mm ² BCEW tail piece to 50mm ² aluminum down conductor.	No	36		
150	PVC conduit built into walls to contain down conductors	No	108		
151	50mm ² aluminum down conductor	No	108		
152	Bonding of 50mm ² aluminum earthing conductor to galvanised roof structure.	No	36		
153	Allow for Testing and Commissioning of the lightning protection installation on completion including Resistance Certificates, for each building.	No	6		
154	Site Establishment	Item			
155	Health and Safety	Item			
156	Contractual Requirements: Design and Supply	Item			
157	Design, Supply & Install: Lightning Protection for Building: Scope of Works An Isolated ATS will be installed. No columns may be cast without approval of our construction manager. An Inspection Pit will be installed approximately 500mm away from the building. Concrete aprons may not be cast without approval of our construction manager. The ETS will be Type A.	Item			
	<u>Preliminary and General.</u>				
158	Fixed P&G Amount	Item			
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	Section No. 2 Bill No. 11 Electrical Works				

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ELECTRICAL WORKS
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Section No. 2
Bill No. 11
Electrical Works

		Unit	Quantity	Rate	Amount
<u>GAS AND STOVE INSTALLATION</u>					
<u>Front facing control knobs with automatic electric ignition, Independent heat adjustment, Excellent quality ring 5 burners, Full stainless steel panel, Cast-iron pot stands, Safety valves with a flame failure device and LPGSASA Safe Appliance Approval.</u>					
11	Supply	No	2		
12	Install	No	2		
<u>48kg Cylinder with a change-over regulator & Refill.</u>					
13	Supply	No	4		
14	Install	No	4		
<u>22mm Class 2 Copper (Gas line as shown in the plans to run surface mount into the kitchen with a second emergency shut off valve above counter level)</u>					
15	Supply	m	6		
16	Install	m	6		
<u>15mm Class 2 Copper Pipe (Gas line as shown in the plans to run surface mount into the kitchen with a second emergency shut off valve above counter level)</u>					
17	Supply	m	4		
18	Install	m	4		
<u>1 Manual Ball LPG Isolation Valves Pipe Sleeves</u>					
19	Supply	m	6		
20	Install	m	6		
<u>Gas Cage Locks Consumables & Fittings to fit 4 x 48kg Gas Cylinders.</u>					
21	Supply	m	1		
22	Install	m	1		
<u>FIRE PROTECTION EQUIPMENT, ETC</u>					
<u>Supply, delivery, installation, commissioning and testing of fire protection equipment and signage:</u>					
23	4,5kg Dry chemical powder fire extinguisher (Class: ABC Fires) complete with wooden chevron boards for mounting	No	7		
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Mechanical Work					

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MECHANICAL WORK
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Section No. 2
Bill No. 12
Mechanical Work

	Unit	Quantity	Rate	Amount
SECTION NO. 2				
REFURBISHMENTS				
BILL NO. 13				
GLAZING				
PREAMBLES				
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				
SUPPLEMENTARY PREAMBLES				
GLAZING				
Float glass:				
The term 'float glass' is used for monolithic annealed glass				
4mm clear float glass				
1		Panes exceeding 0.1m ² and not exceeding 0.5m ²	m ²	130
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				
2		Mirror 600mm x 500mm High	No	21
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Bill No. 13				
Glazing				
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	Unit	Quantity	Rate	Amount
SECTION NO. 2				
REFURBISHMENTS				
BILL NO. 14				
PAINTWORK				
PREAMBLES				
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				
SUPPLEMENTARY PREAMBLES				
Painting specification:				
All painting shall be done in accordance with SABS specifications unless otherwise described				
Colours:				
Unless otherwise described, all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with 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				
ON INTERNAL PLASTER SURFACES				
<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	m ²	2 387		
2	m ²	293		
ON EXTERNAL PLASTER SURFACES				
<u>Prepare surfaces and remove all loose material, apply one coat plaster primer and two coats super acrylic:</u>				
3	m ²	1 350		
4	m ²	124		
ON GYPSUM BOARD SURFACES				
<u>One coat alkali based zinc chromate primer and two coats gloss enamel paint, on steel:</u>				
5	m ²	1 458		
Carried to Collection			R	
Section No. 2				
Bill No. 14				
Paintwork				

	Unit	Quantity	Rate	Amount
<u>ON FIBRE CEMENT SURFACES</u>				
6	Fibre cement ceiling.	m ²	380	
7	Fascias and barge boards, including priming metal jointing strips	m ²	131	
<u>ON EXISTING METAL SURFACES</u>				
<u>One coat alkali based zinc chromate primer and two coats gloss enamel paint, on steel:</u>				
8	75mm x 3 000mm high steel posts	m ²	107	
9	Windows	m ²	79	
<u>Three coats exterior quality penetrating wood preservative:</u>				
<u>ON WOOD SURFACES</u>				
10	Skirtings, quadrants, rails, etc. not exceeding 300mm girth	m	852	
11	Roof timbers at eaves and verges	m ²	54	
<u>Three coats superior quality clear gloss varnish:</u>				
12	On external doors.	m ²	100	
<u>One coat nova dark brown and two coats sanded lightly between coats to:</u>				
<u>One coat primer and two coats of non drip velvagio paint to timber doors</u>				
13	On internal doors.	m ²	32	
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Paintwork				
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PAINTWORK
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Bill No. 14
Paintwork

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	<u>REFURBISHMENTS</u>		
	<u>SECTION SUMMARY</u>		
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2	ROOF COVERINGS	30	
3	CARPENTRY AND JOINERY	37	
4	CEILINGS PARTITIONS AND ACCESS FLOORING	40	
5	FLOOR COVERINGS	41	
6	IRONMONGERY	46	
7	METALWORK	50	
8	PLASTERING	53	
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SECTION NO. 3
EXTERNAL WORKS

	Unit	Quantity	Rate	Amount
SECTION NO. 3				
EXTERNAL WORKS				
BILL NO. 1				
PRE-FABRICATED CLASSROOMS				
PREAMBLES				
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/consultantguidelines				
SUPPLEMENTARY PREAMBLES				
Reference to drawings and details:				
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.				
Site clearance:				
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.				
Materials:				
<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.				
<u>SITE CLEARANCE ETC</u>				
1		Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc. and trees not exceeding 200mm girth	m ²	1 925
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	m ²	1 925
<u>EXCAVATION, ETC.</u>				
<u>Excavation in earth not exceeding 2m deep to reduced levels</u>				
3		Over site to form platforms	m ³	1 155
Carried to Collection			R	
Section No. 3				
Bill No. 1				
Pre-fabricated Classrooms				

	Unit	Quantity	Rate	Amount
<p>11 Toilet Block size 7000mm x 7000mm x 2700mm 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.</p>	No	1		
<p>Section No. 3 Bill No. 1 Pre-fabricated Classrooms</p>				<p style="text-align: right;">Carried to Collection</p> <p style="text-align: right;">R</p>

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PRE-FABRICATED CLASSROOMS

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Section No. 3
 Bill No. 1
 Pre-fabricated Classrooms

	Unit	Quantity	Rate	Amount
SECTION NO. 3				
EXTERNAL WORKS				
BILL NO. 2				
RAINWATER TANKS AND STANDS				
PREAMBLES				
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/consultantguidelines				
SUPPLEMENTARY PREAMBLES				
Supplementary Preambles from relevant trades/Bills in this tender document are applicable to items in this section				
Reference to drawings and details:				
EXCAVATIONS				
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.				
TANK STAND, RAINWATER TANKS, E.T.C.				
Site clearance:				
1		Allow for clearing site including removing trees, shrubs etc. not exceeding 200mm girth, grubbing up roots and roughly levelling.	m ²	586
Excavations in earth not exceeding 2000mm deep in :				
2		Trenches	m ³	55
3		Reduced levels under floors.	m ³	10
Extra over trench and hole excavations in earth for excavation in:				
4		Soft rock	m ³	4
5		Hard rock	m ³	2
Extra over all excavations for carting away:				
6		Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m ³	55
Risk of collapse of excavations:				
7		Sides of trench and hole excavations not exceeding 1,5m deep.	m ²	315
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Bill No. 2				
Rainwater Tanks And Stands				
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	Unit	Quantity	Rate	Amount
<u>Keeping excavations free of water:</u>				
8	Item			
Keeping excavations free of all water other than subterranean water				
<u>EARTH FILLING, E.T.C.</u>				
<u>Filling with material from excavations compacted to a density of at least 96% Mod. AASHTO maximum density:</u>				
9	m ³	10		
Backfilling to trenches, holes, etc.				
<u>Filling with approved G7 material, supplied and carted onto site by the contractor and compacted in layers not exceeding 150mm thick to a density of at least 95% Mod. AASHTO maximum density:</u>				
10	m ³	20		
Under concrete platforms				
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>10MPa/19mm Concrete:</u>				
11	m ³	2		
Surface blinding				
<u>25MPa/19mm Concrete:</u>				
12	m ³	9		
Concrete block surround footings cast against excavated surfaces				
<u>REINFORCED CONCRETE</u>				
<u>25Mpa/19mm Concrete:</u>				
13	m ³	16		
Concrete platforms				
14	m ³	1		
Concrete splash apron (drainage)				
<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
15	m ²	68		
Concrete platforms				
<u>Smooth formwork (Degree of Accuracy II):</u>				
16	m	147		
Edge, risers, ends and reveals not exceeding 300mm high				
<u>REINFORCEMENT</u>				
<u>Fabric reinforcement:</u>				
17	m ²	68		
High tensile steel ref 395 mesh in concrete surface beds, slabs, etc.				
<u>MASONRY</u>				
<u>BRICKWORK IN FOUNDATIONS</u>				
<u>Brickwork in Class II mortar:</u>				
18	m ²	88		
220mm Walls				
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Bill No. 2				
Rainwater Tanks And Stands				

		Unit	Quantity	Rate	Amount
<u>BRICKWORK IN SUPERSTRUCTURE</u>					
<u>Brickwork in Class II mortar:</u>					
19	220mm Walls	m ²	63		
<u>BRICKWORK SUNDRIES:</u>					
<u>Brickwork Reinforcement:</u>					
20	150mm Wide reinforcement built in horizontally in foundations.	m	917		
21	150mm Wide reinforcement built in horizontally.	m	262		
<u>FACE BRICKWORK</u>					
<u>'Golden Wheat Travertine' Facebrick to be laid in and pointed with flush/recessed horizontal and vertical joints:</u>					
22	Extra over 220mm skin of brickwork for face brickwork	m ²	91		
23	Brickwork for brick-on-flat header course bands one course high	m	147		
<u>WATERPROOFING</u>					
<u>DAMPPROOFING TO WALLS AND FLOORS</u>					
<u>One layer of 375 micron brickgrip DPC embossed damp proof course:</u>					
24	In walls	m ²	32		
<u>One layer of 250 micron gunplas green waterproof sheeting sealed at laps with gunplas pressure sensitive tape:</u>					
25	Under concrete platforms	m ²	68		
<u>METALWORK</u>					
<u>SUNDRY GALVANISED STEELWORK</u>					
26	10mm x 100mm Eye-bolt once bent and cast into concrete	No	56		
27	Double heavy duty galvanised holding down wire - 2 500mm length	No	42		
28	8mm Galvanised wire rope clamp	No	56		
<u>TANKS ETC.</u>					
29	5 000 Litre polyethylene 'Roto' moulded horizontal water storage tank complete, size 2 600mm x 2 060mm x 1 530mm high with 450mm screw lid, fitted with and including 15mm brass bibtap (Type 108LK15 or Equally Approved) with suitable adaptor and setting in position on concrete tankstand (elsewhere measured) and tying down with 8mm diameter galvanised round strand steel rope fastened and secured to side of tank stand with one end fixed to galvanised gutter bolt embedded into concrete. (Note: tanks to be filled with water before Practical Completion).	No	14		
Carried to Collection					
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Rainwater Tanks And Stands					
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	Unit	Quantity	Rate	Amount
30 Supply and fit complete to manufacture's instructions leaf eater rain heads to downpipes to prevent blocking.	No	14		
Testing:				
31 Allow for testing all drains, and water supplies to the satisfaction of the Representative. All defective work is to be taken out and replaced at the Contractor's expense.	Item			
Section No. 3 Bill No. 2 Rainwater Tanks And Stands				Carried to Collection R

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RAINWATER TANKS AND STANDS
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Bill No. 2
Rainwater Tanks And Stands

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EXTERNAL WORKS				
BILL NO. 3				
STORMWATER CHANNELS				
PREAMBLES				
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/consultantguidelines				
SUPPLEMENTARY PREAMBLES				
Supplementary Preambles from relevant trades/Bills in this tender document are applicable to items in this section				
Reference to drawings and details:				
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.				
STORMWATER CHANNELS				
In situ concrete channels:				
1		1 200mm wide x 100mm deep 25MPa/19mm 'V' channel, on suitable 150mm sub-base material compacted to 93% Mod A.A.S.H.T.O. density, including all necessary excavations, formwork, compaction, grading, carting away, etc.	m	612
2		Extra over for angles, intersections, ends, dressing into sides of catchpits, etc.	No	20
SPREADERS, ETC				
20Mpa/19mm Concrete:				
3		Extra over for widening concrete to form spreader 1 200mm wide extreme for a length of 1 000mm and bedding 3 brick on edge in concrete to falls including brushing concrete, as per Engineer's Detail (3766L-102).	No	1
MESH REINFORCEMENT				
4		Type 245 fabric reinforcement in V- Channels, etc.	m ²	734
SUNDRIES, ETC				
Joint forming material in movement joints:				
5		10mm Bitumen impregnated fibre board vertically between concrete surfaces	m ²	44
Carried to Collection			R	
Section No. 3				
Bill No. 3				
Stormwater Channels				

	Unit	Quantity	Rate	Amount
<u>JOINT SEALANTS, ETC</u>				
<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
<u>One layer 250 micron embossed polyethylene dampproof course (SANS 952-1985 type B) or similar approved</u>				
6				
Under 1 200mm wide channels, with 150mm turn up against brick walls.	m ²	734		
<u>STORMWATER MATTRESS</u>				
<u>Stormwater Reno Mattress:</u>				
7				
Reno Mattress size 2 000mm x 1 000mm x 300mm to ends of 1 400mm wide including concrete stormwater chute complete as per Engineers drawing.	No	1		
Carried to Collection				
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Stormwater Channels				
			R	

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STORMWATER CHANNELS
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Stormwater Channels

SECTION NO. 3
EXTERNAL WORKS
SECTION SUMMARY

Bill No.

- 1 PRE-FABRICATED CLASSROOMS
- 2 RAINWATER TANKS AND STANDS
- 3 STORMWATER CHANNELS

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Amount

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Section No. 3
 SECTION SUMMARY

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SECTION NO. 5
PROVISIONAL SUMS

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 5</u> <u>PROVISIONAL SUMS</u> <u>BILL NO. 1</u> <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/consultantguidelines</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> <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 style="text-align: right;">Carried to Collection</p> <p>Section No. 5 Bill No. 1 Provisional Sum</p>			R	

	Unit	Quantity	Rate	Amount
<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>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>Contract Price Adjustment Provision:</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 style="text-align: right;">Carried to Collection</p> <p>Section No. 5 Bill No. 1 Provisional Sum</p>			R	

	Unit	Quantity	Rate	Amount
<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>PROVISIONAL SUMS</u></p> <p><u>Community Liaison Officer:</u></p>				
1	Item			100 000 00
2	Item			
3	Item			
<p><u>Approved Asbestos Inspector:</u></p>				
4	Item			200 000 00
5	Item			
6	Item			
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PROVISIONAL SUMS
SECTION SUMMARY

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PROVISIONAL SUM

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FINAL SUMMARY

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3	EXTERNAL WORKS	95
5	PROVISIONAL SUMS	101

ADD: CONTINGENCIES

Provide for 5% contingencies, to be used on Employer's discretion in terms of Clause 17 of the Principal Building Agreement.

SubTotal excluding Value Added Tax

ADD VAT @ 15%:

Carried to Tender

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FINAL SUMMARY