

SECTION NO. 1

PRELIMINARIES

		Amount
<p><u>SECTION NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p>The JBCC Series 2000 Principal Building Agreement (March 2005 edition) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>Contractors are referred to the above mentioned documents for the full intent and meaning of each clause thereof</p> <p>These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the above mentioned documents</p> <p>Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"</p> <p><u>PREAMBLES FOR TRADES</u></p> <p>The Model Preambles for Trades (2008 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claim arising from brevity of description of items fully described in the said Model Preambles will be entertained</p> <p>Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles</p> <p>The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles</p> <p><u>PRICING OF PRELIMINARIES</u></p> <p><u>Pricing of Prelims:</u></p> <p>Should the contractor select Option A in terms of clause 10.3 for the purpose of adjustment of these preliminaries, the amount entered in the amount column in these preliminaries is to be divided into one or more of the three categories provided namely Fixed (F), Value Related (V) and Time Related (T)</p> <p><u>SECTION A - PRINCIPAL BUILDING AGREEMENT</u></p> <p><u>Definitions:</u></p>		
1	Clause 1.0 - Definitions and interpretation	Item
<p><u>Objective and preparation:</u></p>		
2	Clause 2.0 - Offer, acceptance and performance	Item
3	Clause 3.0 - Documents	Item
Carried To Section Summary		R
Section No. 1		
Bill No. 2		
Preliminaries		

			Amount
4	Clause 4.0 - Design responsibility	Item	
5	Clause 5.0 - Employer's agents	Item	
6	Clause 6.0 - Site representative	Item	
7	Clause 7.0 - Compliance with regulations	Item	
8	Without limiting the generality of the provisions of clause 7.0 the contractor's attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the afore mentioned health and safety specification	Item	
9	Clause 8.0 - Works risk	Item	
10	Clause 9.0 - Indemnities	Item	
11	Clause 10.0 - Works insurances	Item	
12	Clause 11.0 - Liability insurances	Item	
13	Clause 12.0 - Effecting insurances	Item	
14	Clause 13.0 - No clause	Item	
15	Clause 14.0 - Security	Item	
	<u>Execution:</u>		
16	Clause 15.0 - Preparation for and execution of the works	Item	
17	Clause 16.0 - Access to the works	Item	
18	Clause 17.0 - Contract instructions	Item	
19	Clause 18.0 - Setting out of the works The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc exist in order that the necessary arrangements may be made for the rectification of any such encroachments	Item	
20	Clause 19.0 - Assignment	Item	
21	Clause 20.0 - Nominated subcontractors	Item	
22	Clause 21.0 - Selected subcontractors	Item	
23	Clause 22.0 - Employer's direct contractors	Item	
24	Clause 23.0 - Contractor's domestic subcontractors	Item	
Carried To Section Summary		R	
Section No. 1			
Bill No. 2			
Preliminaries			

			Amount
	<u>Completion:</u>		
25	Clause 24.0 - Practical completion	Item	
26	Clause 25.0 - Works completion	Item	
27	Clause 26.0 - Final completion	Item	
28	Clause 27.0 - Latent defects liability period	Item	
29	Clause 28.0 - Sectional completion	Item	
30	Clause 29.0 - Revision of the date for practical completion		
	The removal and replacement of materials and/or workmanship which do not conform to specification or drawings shall not constitute grounds for an extension of the construction period nor for an adjustment to the contract value (clause 29.3)	Item	
31	Clause 30.0 - Penalty for noncompletion	Item	
	<u>Payment:</u>		
32	Clause 31.0 - Interim payment to the contractor		
	Materials and goods stored off site shall not be included in the amount authorised for payment	Item	
33	Clause 32.0 - Adjustment to the contract value		
	Clause 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence: "due to no fault of the contractor "	Item	
34	Clause 33.0 - Recovery of expense and loss	Item	
35	Clause 34.0 - Final account and final payment	Item	
36	Clause 35.0 - Payment to other parties	Item	
	<u>Cancellation:</u>		
37	Clause 36.0 - Cancellation by employer - contractor's default	Item	
38	Clause 37.0 - Cancellation by employer - loss and damage	Item	
39	Clause 38.0 - Cancellation by contractor - employer's default	Item	
40	Clause 39.0 - Cancellation - cessation of the works	Item	
	<u>Dispute:</u>		
41	Clause 40.0 - Dispute settlement	Item	
	<u>Substitute provisions:</u>		
42	Clause 41.0 - State clauses	Item	
Carried To Section Summary			
Section No. 1			
Bill No. 2			
Preliminaries			
4			

		Amount	
	<u>Contract variables:</u>		
43	Clause 42.0 - Pre-tender information Tenderers are referred to the document C1.2 Contract Data for variables pertaining to this contract	Item	
44	Clause 42.0 - Post-tender information The required post-tender information shall be inserted in the agreement after consultation with the contractor	Item	
	<u>SECTION B - PRELIMINARIES</u>		
	<u>Definitions and interpretation:</u>		
45	Clause 1.0 - Definitions and interpretation	Item	
	<u>Documents:</u>		
46	Clause 2.1 - Checking of documents	Item	
47	Clause 2.2 - Provisional bills of quantities	Item	
48	Clause 2.3 - Availability of construction documentation	Item	
49	Clause 2.4 - Interests of agents	Item	
50	Clause 2.5 - Priced documents	Item	
51	Clause 2.6 - Tender submission Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance (C1.1)"	Item	
	<u>The site:</u>		
52	Clause 3.1 - Defined works area The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the Principal Agent on handing over of the site	Item	
53	Clause 3.2 - Geotechnical investigation A copy of the geotechnical investigation report is annexed to these bills of quantities	Item	
54	Clause 3.3 - Inspection of the site Tenderers shall complete the Site Inspection Certificate included in the tender documents and return the same with the tender submission	Item	
55	Clause 3.4 - Existing premises occupied	Item	
56	Clause 3.5 - Previous work - dimensional accuracy	Item	
57	Clause 3.6 - Previous work - defects	Item	
	Carried To Section Summary	R	
	Section No. 1		
	Bill No. 2		
	Preliminaries		

			Amount
58	Clause 3.7 - Services - known	Item	
59	Clause 3.8 - Services - unknown	Item	
60	Clause 3.9 - Protection of trees	Item	
61	Clause 3.10 - Articles of value	Item	
62	Clause 3.11 - Inspection of adjoining properties	Item	
	<u>Management of contract:</u>		
63	Clause 4.1 - Management of the works	Item	
64	Clause 4.2 - Programme for the works	Item	
65	Clause 4.3 - Progress meetings	Item	
66	Clause 4.4 - Technical meetings	Item	
67	Clause 4.5 - Labour and plant records	Item	
	<u>Samples, shop drawings and manufacturer's instructions:</u>		
68	Clause 5.1 - Samples of materials	Item	
69	Clause 5.2 - Workmanship samples	Item	
70	Clause 5.3 - Shop drawings	Item	
71	Clause 5.4 - Compliance with manufacturers' instructions	Item	
	<u>Temporary works and plant:</u>		
72	Clause 6.1 - Deposits and fees	Item	
73	Clause 6.2 - Enclosure of the works	Item	
74	Clause 6.3 - Advertising	Item	
75	Clause 6.4 - Plant, equipment, sheds and offices	Item	
76	Clause 6.5 - Main noticeboard	Item	
77	Clause 6.6 - Subcontractors' noticeboard	Item	
	<u>Temporary services:</u>		
78	Clause 7.1 - Location	Item	
79	Clause 7.2 - Water	Item	
80	Clause 7.3 - Electricity	Item	
81	Clause 7.4 - Telecommunication facilities	Item	
82	Clause 7.5 - Ablution facilities	Item	
Carried To Section Summary		R	
Section No. 1			
Bill No. 2			
Preliminaries			

			Amount
	<u>Prime cost amounts:</u>		
83	Clause 8.1 - Responsibility for prime cost amounts	Item	
	<u>Attendance on nominated/selected subcontractors:</u>		
84	Clause 9.1 - General attendance	Item	
85	Clause 9.2 - Special attendance	Item	
86	Clause 9.3 - Commissioning - fuel, water and electricity	Item	
	<u>Financial aspects:</u>		
87	Clause 10.1 - Statutory taxes, duties and levies		
	Provision is made in the summary of these bills of quantities for the inclusion of Value Added Tax (VAT)	Item	
88	Clause 10.2 - Payment of preliminaries	Item	
89	Clause 10.3 - Adjustment of preliminaries	Item	
90	Clause 10.4 - Payment certificate cash flow	Item	
	<u>General:</u>		
91	Clause 11.1 - Protection of the works	Item	
92	Clause 11.2 - Protection/isolation of existing/sectionally occupied works	Item	
93	Clause 11.3 - Security of the works	Item	
94	Clause 11.4 - Notice before covering work	Item	
95	Clause 11.5 - Disturbance	Item	
96	Clause 11.6 - Environmental disturbance	Item	
97	Clause 11.7 - Works cleaning and clearing	Item	
98	Clause 11.8 - Vermin	Item	
99	Clause 11.9 - Overhand work	Item	
100	Clause 11.10 - Instruction manuals and guarantees	Item	
101	Clause 11.11 - As built information	Item	
102	Clause 11.12 - Tenant installations	Item	
	<u>Schedule of variables:</u>		
103	12.1 - Pre-tender information		
Carried To Section Summary			
Section No. 1			
Bill No. 2			
Preliminaries			

			Amount
	Information necessary for elections and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that either specific requirements are not required or that the clause is not relevant to this specific contract	Item	
104	12.1.1 - Provisional bills of quantities [clause 2.2] The quantities are provisional - YES	Item	
105	12.1.2 - Availability of construction documentation [clause 2.3] Construction documentation is complete - YES	Item	
106	12.1.3 - Interests of agents [clause 2.4] - NONE	Item	
107	12.1.4 - Defined works area [clause 3.1] - YES The work area will be pointed out by the principal agent to the contractor who will sign written acknowledgement therefore before commencing operations	Item	
108	12.1.5 - Geotechnical investigation [clause 3.2] - YES A Geotechnical Investigation Report is included in this document	Item	
109	12.1.6 - Existing premises occupied [clause 3.4] - YES The school will be full operation during the work and disruption, dust and noise are to be kept to a minimum. Works areas to be clearly demarcated and fenced off	Item	
110	12.1.7 - Previous work - dimensional accuracy [clause 3.5] The contractor shall, within reasonable period after taking possession of the site, but not exceeding ten (10) percent of the construction period or twenty (20) working days whichever is the lesser, check existing levels, lines, profiles and the like affecting the works and satisfy himself as to the dimensional accuracy of work previously executed. The contractor shall forthwith notify the principal agent and request a contract instruction regarding any dimensional inaccuracy found in work previously executed	Item	
111	12.1.8 - Previous work - defects [clause 3.6] The contractor on becoming aware of a defect in work previously executed shall forthwith notify the principal agent requesting a contract instruction regarding such defect	Item	
112	12.1.9 - Services - known [clause 3.7] Existing services and points of connection are shown on the site plan or will be pointed out on the site by the principal agent	Item	
113	12.1.10 - Protection of trees [clause 3.9]		
Carried To Section Summary			
Section No. 1			
Bill No. 2			
Preliminaries			
8			

			Amount	
	Only those trees and shrubs indicated as such on the drawings shall be removed or cut back. The remainder of the trees and shrubs shall be left undamaged	Item		
114	12.1.11 - Inspection of adjoining properties [clause 3.11]	Item		
115	12.1.11 - Inspection of adjoining properties [clause 3.11] The contractor shall make his own arrangements with the owners of adjoining properties in order to execute the works	Item		
116	12.1.12 - Enclosure of the works [clause 6.2] The contractor shall erect, maintain and remove on completion, hoardings with gantries, fans, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others	Item		
117	12.1.13 - Offices [clause 6.4.3] The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitable insulated and ventilated, provided with electric lighting, and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times	Item		
118	12.1.14 - Main noticeboard [clause 6.5] The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m as type Drawing GEN 063, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines deep blue. All wording shall be inscribed in deep blue painted Helvetica medium lettering. As alternative the notice board as approved by the professional bodies will be allowed. No sub-contractor's individual boards will be allowed on the site	Item		
119	12.1.15 - Subcontractors' noticeboard [clause 6.6] A noticeboard is required - NO	Item		
120	12.1.16 - Water [clause 7.2] Option A (by contractor) YES Option B (by employer - free of charge) NO Option C (by employer - metered) NO	Item		
121	12.1.17 - Electricity [clause 7.3] Option A (by contractor) NO			
Carried To Section Summary			R	
Section No. 1				
Bill No. 2				
Preliminaries				

			Amount
	Option B (by employer - free of charge) NO		
	Option C (by employer - metered) YES	Item	
122	12.1.18 - Telecommunications [clause 7.4]		
	Telephone YES		
	Facsimile NO		
	E-mail NO	Item	
123	12.1.19 - Ablution facilities [clause 7.5]		
	Option A (by contractor) YES		
	Option B (by employer - free of charge) NO	Item	
124	12.1.20 - Protection/isolation of existing/sectionally occupied works [clause 11.2]		
	The contractor shall provide all reasonable temporary measures to protect/isolate the existing and/or section of the occupied works and remove such measures on completion	Item	
125	12.1.21 - Special attendance [clause 9.2] - NO	Item	
126	12.1.22 - Protection of the works [clause 11.1] - YES	Item	
127	12.1.23 - Disturbance [clause 11.5]		
	The contractor shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent		
	The contractor shall execute the works with a minimum of disturbance to adjoining premises, any parts of the works already handed over and the occupants of those premises and/or parts	Item	
128	12.1.24 - Environmental disturbance [clause 11.6] - NO	Item	
129	12.2 - Post-tender information		
	The required post-tender information shall be inserted in the preliminaries after consultation with the contractor	Item	
	<u>SECTION C - SPECIFIC PRELIMINARIES</u>		
	Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item		
130	CONTRACT DRAWINGS		
	The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed		
	Carried To Section Summary	R	
	Section No. 1		
	Bill No. 2		
	Preliminaries		

		Amount
	Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent	Item
131	GENERAL PREAMBLES These tender documents "General Specification (PW 371-A) July 2013" and "Particular Specification (PW 371-B) July 2013" which are both obtainable on Public Works website alternatively a copy can be e-mailed on request from the Quantity Surveyor offices, and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used. No claim arising from brevity of description of items fully described in the said Preambles for Trades will be entertained	Item
132	TRADE NAMES Wherever a trade name for any product has been described in the Priced Document , the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for	Item
133	PROPRIETARY BRANDED PRODUCTS The contractor shall take delivery of, handle, store, use apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instruction after consultation with the manufacturer's authorised representative	Item
134	CONFIDENTIALITY The contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all subcontractors and suppliers. Such information shall not be used in any way except in connection with the execution of the works. No information regarding this project shall be published or disclosed without the prior written consent of the employer	Item
135	OVERTIME Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing prior to the execution thereof, that cost for such overtime are to be borne by the employer	Item
136	AS BUILT DRAWINGS The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records	Item
137	WARRANTIES FOR MATERIALS AND WORKMANSHIP	
	Carried To Section Summary	R
	Section No. 1	
	Bill No. 2	
	Preliminaries	

		Amount
	Where warranties for materials are called for, the contractor shall obtain a written warranty, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The warranty shall state that workmanship, materials and installation are warranted for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice to do so. The warranty will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor.	Item
138	SITE INSTRUCTIONS Site instructions issued on site are to be recorded in triplicate in a site instruction book which is to be provided and maintained on site by the contractor	Item
139	NON CESSION OF MONIES The contractor shall not cede nor assign his rights or claims to any monies due or to become due under this contract	Item
140	IMPORTED MATERIALS AND EQUIPMENT Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule for Imported Materials and Equipment WCTD-23 to be completed by tenderer) Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)	Item
141	TESTING OF FLAT ROOF WATERPROOFING FOR WATERTIGHTNESS Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept 'ponded' for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing	Item
142	TESTING OF WINDOWS FOR WATERTIGHTNESS Each window shall be tested for watertightness with water sprayed on by means of a 20mm hosepipe using adequate pressure. If in the opinion of the principal agent, the pressure proves to be inadequate, then the pressure in the hosepipe shall be boosted by means of compressed air or other approved means	Item
143	AUTHORISATION FOR THE TAKING OF PHOTOGRAPHS	
Carried To Section Summary		R
Section No. 1		
Bill No. 2		
Preliminaries		

		Amount
	<p>The contractor shall obtain prior authorisation from the employer for the making of any sketches or the taking of any photographs of any site, installation, building or civil works belonging to the employer and shall ensure that all personnel, subcontractors and other persons entering the site shall comply with this requirement as well.</p>	Item
144	<p>HIV/AIDS AWARENESS</p> <p>It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under the two items below hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained</p> <p>The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of Clause A 31 of "Section 1: Preliminaries (Section A)" or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p>	Item
145	<p>AWARENESS WORKSHOPS</p> <p>Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification</p>	Item
146	<p>AWARENESS CHAMPION</p> <p>Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification</p>	Item
147	<p>POSTERS, BOOKLETS, VIDEOS, ETC.</p> <p>Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p>	Item
148	<p>ACCESS TO CONDOMS</p> <p>Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p>	Item
Carried To Section Summary		R
Section No. 1		
Bill No. 2		
Preliminaries		

		Amount
149	<p>CO-OPERATION OF CONTRACTOR FOR COST MANAGEMENT</p> <p>It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The principal agent undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor shall attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures, as necessary, to all subcontractors</p>	Item
150	<p>MONITORING</p> <p>Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification</p>	Item
151	<p>REPORTING BY CONTRACTOR</p> <p>The contractor is required to complete the attached Contractor's Monthly Report which is to be submitted together with the contractors payment claim. Payment of the contractor is conditional on this information being accurate and timeously provided</p>	Item
152	<p>PLANT RECORDS</p> <p>At the end of each month the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works</p>	Item
153	<p>LOCAL LABOUR</p> <p>Allow for monthly submission of proof of employment of local skilled and unskilled labour to the principal agent.</p> <p>It is a general requirement of this contract that persons normally resident in the locality of the works (local labour) be given preference for employment on the contract. Should adequate and appropriate labour not be available within the locality, other labour may be subject to satisfactory proof being provided that every reasonable endeavour has been made to employ local labour. The contractor shall identify the local community leaders with the purpose of negotiating with them regarding the utilisation of local labour in the construction process. The contractor shall furthermore give preference, wherever possible to the employment of single heads of households, women and yout. The contractor shall, in general, maximise the involvement of the local community.</p> <p>The principal agent shall be empowered to inspect the books and records of the contractor from time to time to ensure that the requirements are met. Should it become apparent that these conditions are not being complied with; the principal agent shall close down the works until the requirements are met. Any work stoppages so occasioned will be for the contractor's account.</p>	Item
Carried To Section Summary		R
Section No. 1		
Bill No. 2		
Preliminaries		

		Amount
154	<p>LOCAL BUILDING MATERIALS</p> <p>Preference shall be given to the supply of materials produced or manufactured in the Eastern Cape Province provided that:</p> <p>a) Such materials comply in all respects with the specific requirements of PW371 specification</p> <p>b) The availability of such materials shall not adversely affect the desired progress of the specific works</p> <p>c) The use of such materials shall not constitute grounds for any claim for increased cost in respect thereof</p>	Item
155	<p>DISPOSAL SITE-SOLID WASTE/ENVIRONMENTALLY SENSITIVE MATERIALS</p> <p>All disposal of solid waste shall be deposited at an approved disposal site to be located by the contractor. All handling of environmentally sensitive materials such as asbestos, etc., is to be carried out by a registered waste disposal specialist and all laws and bylaws are to be appropriate state body will be required and is to be to the principal agent's approval. Written confirmation of appropriate disposal is to be issued to the principal agent</p>	Item
156	<p>WAIVER OF LIEN</p> <p>The tenderers are notified that he/she shall sign "Waiver of Lien" together with the JBCC Principal Building Agreement Edition 4.1 Code 2101 March 2005</p>	Item
157	<p>OCCUPATIONAL HEALTH AND SAFETY ACT</p> <p>The contractor shall comply with all the requirements set out in the Health and Safety Specification for Construction Work as contained within these tender documents and the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993).</p> <p>It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities.</p> <p>The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p> <p>Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.</p> <p>In addition but not limited to the contractor shall:</p>	
Carried To Section Summary		R
Section No. 1		
Bill No. 2		
Preliminaries		

		Amount
158	<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 	Item
	<p>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> <p>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.</p>	Item
Carried To Section Summary		R
Section No. 1		
Bill No. 2		
Preliminaries		

SECTION NO. 1
PRELIMINARIES
SECTION SUMMARY

Amount

Page

Brought forward from page	2
Brought forward from page	3
Brought forward from page	4
Brought forward from page	5
Brought forward from page	6
Brought forward from page	7
Brought forward from page	8
Brought forward from page	9
Brought forward from page	10
Brought forward from page	11
Brought forward from page	12
Brought forward from page	13
Brought forward from page	14
Brought forward from page	15
Brought forward from page	16

Carried to Final Summary

R

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>DEMOLITIONS</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p>Supplementary Preambles from relevant trades/Bills in this tender document are applicable to items in this section.</p> <p><u>Reference to drawings and details:</u></p> <p>Where drawings and/ or details have been referred to in the description of items the Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained.</p> <p>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>Demolish and remove, including carting away rubble off site to dump site selected by the contractor.</u></p> <p>The contractor should inspect all buildings the existing to be demolished, and price for the removing the entire buildings including foundations, etc. No claims will be considered in this regard.</p> <p>The contractor should inspect all buildings the existing to be demolished, and price for the removing the entire buildings including foundations, etc. No claims will be considered in this regard.</p>				
Carried to Collection			R	
Section No. 2				
Bill No. 1				
Demolitions				

		Unit	Quantity	Rate	Amount
	<u>DEMOLITIONS ETC</u>				
1	Existing single storey block structure (Block B), approximately (+- 117m ² measured flat) on floor plan, comprising of Corrugated roofing sheets, purlins, pitched roof trusses, including all steel windows and doors complete, concrete slabs, sanitary fittings, electrical work including closing off of supply as per regulations, including taking out, grubbing up and removing all foundation concrete, brickwork, blockwork, e.t.c complete, making good by backfilling from stockpiles or imported fill on completion and carting away off site of all building rubble to a dumping site located by the Contractor. Complete demolition and removal of this classroom is to be priced under this item, and no further claims will be entertained.	No	1		
2	Existing single storey clay brick structure (Block F), approximately (+- 103m ² measured flat) on floor plan, comprising of Corrugated roofing sheets, purlins, pitched roof trusses, including all steel windows and doors complete, concrete slabs, sanitary fittings, electrical work including closing off of supply as per regulations, including taking out, grubbing up and removing all foundation concrete, brickwork, blockwork, e.t.c complete, making good by backfilling from stockpiles or imported fill on completion and carting away off site of all building rubble to a dumping site located by the Contractor. Complete demolition and removal of this classroom is to be priced under this item, and no further claims will be entertained.	No	1		
3	Existing single storey clay brick structure (Block G), approximately (+- 126m ² measured flat) on floor plan, comprising of Asbestos roof sheets, purlins, pitched roof trusses, including all steel windows and doors complete, concrete slabs, sanitary fittings, electrical work including closing off of supply as per regulations, including taking out, grubbing up and removing all foundation concrete, brickwork, blockwork, e.t.c complete, making good by backfilling from stockpiles or imported fill on completion and carting away off site of all building rubble to a dumping site located by the Contractor. Complete demolition and removal of this classroom is to be priced under this item, and no further claims will be entertained.	No	1		
Carried to Collection				R	
Section No. 2					
Bill No. 1					
Demolitions					
20					

	Unit	Quantity	Rate	Amount
4 Existing watertank stands aproximately, (+-6m2 measured flat) on floor plan including taking out, grubbing up and removing all foundation concrete, brickwork, blockwork, e.t.c complete, making good by backfilling from stockpiles or imported fill on completion and carting away off site of all building rubble to a dumping site located by the Contractor. Complete demolition and removal of this ablution is to be priced under this item, and no further claims will be entertained.	No	9		
<u>Allow for the removal, carting away and disposal of the following material to a dumpsite located by Contractor:</u>				
5 Existing concrete "V" channels	m	540		
6 Existing perimeter fence	m	548		
7 Existing pedestrian gate	No	1		
8 Existing vehecular gate	No	1		
Carried to Collection			R	
Section No. 2				
Bill No. 1				
Demolitions				

BILL NO. 1
DEMOLITIONS
COLLECTION

Amount

Page No

Brought Forward from Page

19

20

21

Carried To Section Summary

R

Section No. 2
Bill No. 1
Demolitions

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>REFURBISHMENTS</u></p> <p><u>BILL NO. 2</u></p> <p><u>ALTERATIONS</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>The Standard Preambles and Notes in the various trade bills are too and do apply equally to this section.</p> <p><u>View site:</u></p> <p>Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained.</p> <p><u>Explosives:</u></p> <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated.</p> <p><u>General:</u></p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent.</p> <p>Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent.</p>				
Carried to Collection			R	
Section No. 2				
Bill No. 2				
Alterations				

		Unit	Quantity	Rate	Amount
	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.				
	Prices for taking out of doors, windows, etc. shall include for removal of all beads, architraves, ironmongery, etc.				
	Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc. and making good floor and wall finishes to match existing.				
	With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc., shall be levelled and prepared for raising of brickwork.				
	Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary.				
	The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc.).				
	<u>TEMPORARY BARRIERS, SCREENS, ETC</u>				
	<u>Temporary barriers, screens, etc. including removal:</u>				
1	Hoarding 2400mm high formed of 2200mm high x 100mm diameter gum poles embedded 400mm deep into the ground and 2500mm centres with horizontal horizontal timber members at 600mm centres to form a frame nailed upon gum poles with 70% shade net including excavating, backfilling, compacting, etc., complete including maintenance, re-use and removal thereof on completion.	m	201		
	<u>REMOVAL OF EXISTING WORK</u>				
	<u>Breaking down and removing brickwork etc</u>				
2	Half brick walls	m ²	10		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 2				
	Alterations				

24

		Unit	Quantity	Rate	Amount
	<u>Carefully taking down and removing roof sheeting, floors, panelling, ceilings, partitions, etc.:</u>				
3	Pitched roof approximately (+-1.80m) high overall, corrugated sheet steel coverings, eaves soffit coverings, fascias, barge boards, verandah roof, gutters and rainwater pipes, etc. to engineers approval.	m ²	1 391		
4	Rhinoboard ceiling, including branding, etc.	m ²	900		
	<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>				
5	Pitched roof approximately (+-1.90m) high overall, including eaves soffit coverings, fascias, barge boards, verandah roof, gutters and rainwater pipes, etc.	m ²	93		
	<u>Taking out and removing doors, windows, etc., including thresholds, sills, etc. and building up openings in brick walls, including making good cement plaster on both sides (making good paintwork elsewhere):</u>				
6	Timber single door size 813mm x 2032mm high overall including frame.	No	9		
	<u>Taking out and removing sundry joinery work, fittings, etc.:</u>				
7	Timber skirtings.	m	545		
8	Dado rail.	m	470		
9	2400mm Wide x 1200mm high pinning boards.	No	14		
10	2400mm Wide x 1200mm high chalkboards.	No	14		
	<u>Taking up and removing vinyl floor coverings, carpets, etc. and preparing screeds for new floor coverings:</u>				
11	Vinyl tile floor covering.	m ²	851		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 2				
	Alterations				
	25				

		Unit	Quantity	Rate	Amount
	<u>Taking out and removing ironmongery:</u>				
12	Mortice lockset from timber door	No	1		
13	Toilet paper holder from wall	No	1		
	<u>Taking out and removing sundry metalwork:</u>				
14	Steel posts 75mm diameter, 2890mm high from concrete screed, including making good screeds.	No	1		
	<u>Taking out and set aside for re-use sundry metalwork:</u>				
15	Steel burglar proofing with frame size 900mm x 1500mm high bolted to brickwork, including making good plastered walls.	No	16		
16	Steel burglar proofing with frame size 1500mm x 1200mm high bolted to brickwork, including making good plastered walls.	No	1		
	<u>Taking out and removing sanitary fittings, tanks, geysers, etc. including disconnecting from pipes, traps, etc and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>				
17	Stainless steel wash hand basin	No	8		
18	Stainless steel slab urinal 316mm x 425mm x 241mm high	No	1		
	<u>Taking out/off and removing glass and mirrors:</u>				
19	Glass from steel windows, including cleaning out rebates and preparing for new glass.	m ²	25		
20	Mirror 700mm x 650mm high from walls.	No	8		
	<u>PREPARATORY WORK TO EXISTING SURFACES</u>				
	<u>Hacking off and removing granolithic, screeds, plaster, etc. from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc.:</u>				
21	30mm Screed from floors.	m ²	900		
22	Internal plaster.	m ²	150		
23	External plaster.	m ²	250		
24	Sand down and paint existing internal timber doors, etc. to receive paint (elsewhere measured).	m ²	250		
25	Sand down and paint existing steel window frames, etc. to receive paint (elsewhere measured).	m ²	10		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 2				
	Alterations				

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BILL NO. 2
ALTERATIONS
COLLECTION

Amount

Page No

Brought Forward from Page

23

24

25

26

27

Carried To Section Summary

R

Section No. 2
Bill No. 2
Alterations

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>REFURBISHMENTS</u></p> <p><u>BILL NO. 3</u></p> <p><u>MASONRY</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Sizes in descriptions:</u></p> <p>Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick.</p> <p><u>Air bricks etc.:</u></p> <p>Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick.</p> <p><u>Hollow walls:</u></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p><u>Bagged and sealed walls:</u></p> <p>Walls in two skins described as 'bagged and sealed' shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating.</p> <p><u>Face bricks:</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing:</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.</p> <p><u>BRICKWORK IN SUPERSTRUCTURE</u></p> <p><u>Brickwork of NFP bricks in class II mortar:</u></p>				
1	Half brick walls.	m ²	10	
Carried to Collection			R	
Section No. 2				
Bill No. 3				
Masonry				

	Unit	Quantity	Rate	Amount
<u>BRICKWORK SUNDRIES</u>				
<u>2.5mm Brickwork reinforcement:</u>				
2 75mm Wide reinforcement built-in horizontally.	m	40		
			R	
Carried to Collection				
Section No. 2 Bill No. 3 Masonry				

30

BILL NO. 3
MASONRY
COLLECTION

Amount

Page No

Brought Forward from Page

29

30

Carried To Section Summary

R

Section No. 2
Bill No. 3
Masonry

		Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>REFURBISHMENTS</u></p> <p><u>BILL NO. 4</u></p> <p><u>WATERPROOFING</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Waterproofing:</u></p> <p>Waterproofing of roofs, basements, etc. shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc. with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs.</p> <p><u>General:</u></p> <p>No damp-proof course shall be laid directly below the mortar or other bedding material under sills.</p> <p>Similar damp proof course, but in unbroken lengths, shall be laid behind all window sills, sealed with an approved bituminous solution to the back of the sills and taken down within the thickness of the wall and under the first full course of external brickwork.</p> <p>Where so required all laps in the damp proof course shall be sealed over the whole area of laps as recommended by the manufacture. Care shall be taken not to tear or otherwise damage the sheeting.</p> <p>The damp proof course shall be the full thickness of walls above foundations, plus the width of floors plates where these occur, and shall be laid without longitudinal joints. At end joints, angles and intermediate junctions the sheeting shall be lapped for 150mm.</p> <p><u>DAMP-PROOFING OF WALLS AND FLOORS</u></p> <p><u>One layer 375 micron embossed polyethylene damp-proof course (SANS 952-1985 type B):</u></p>					
1	In walls	m ²	10		
Carried to Collection				R	
Section No. 2 Bill No. 4 Waterproofing					
32					

[illegible]

BILL NO. 4
WATERPROOFING
COLLECTION

Amount

Page No

Brought Forward from Page

32

33

Carried To Section Summary

R

Section No. 2
Bill No. 4
Waterproofing

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>REFURBISHMENTS</u></p> <p><u>BILL NO. 5</u></p> <p><u>ROOF COVERINGS</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>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>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>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>				
Carried to Collection			R	
Section No. 2				
Bill No. 5				
Roof Coverings				

	Unit	Quantity	Rate	Amount
<p>All necessary cutting of sheets shall be properly performed. Cut edges at sides of valleys and where otherwise exposed shall be perfectly straight. Use a power saw with cold cutting blades. This produces less hot metal particles and burns as opposed to carborundum discs. Note: Cut sheets to be deburred and coloured sheets to be touched up.</p> <p>The contractor is to submit a certificate signed by the Merchant, stating that the galvanised roof covering supplied complies with the required thickness specified.</p> <p>Roof sheet shall be in single lengths to each slope of the roof or to both roof slopes where a ridge is to be formed by bending the sheets over the ridge.</p> <p>The use of any approved factory applied paint finish shall in all cases be in addition to the galvanised coating as specified.</p> <p><u>Handling on site:</u></p> <p>On no account should sheeting in any surface, that is bundled or nested in stacks, be allowed to get wet. If packs become wet the sheets should be separated without delay and the surface moisture removed with a clean colth. The sheets should then be stacked so that air circulation completes the drying process.</p> <p>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><u>Cleaning up:</u></p> <p>Metallic particles and all other debris including rivet shanks, nails, screws, nuts etc should be swept from the roof sheeting as soon as possible, at the end of each days work and particularly at completion of the roof installation. Corrosion and possible failure of the pre-painted or galvanised coating surfaces subject to moist or condensation conditions.</p> <p>Metallic particles and all other debris including rivet shanks, nails, screws, nuts etc should be swept from the roof sheeting as soon as possible, at the end of each days work and particularly at completion of the roof installation. Corrosion and possible failure of the pre-painted or galvanised coating surfaces subject to moist or condensation conditions.</p> <p><u>General installation procedure:</u></p> <p>Refer to GRS (Global Roofing Solutions) Steel Roofing and Walling Manual of Content.</p>				
<p>Carried to Collection</p>			R	
<p>Section No. 2</p> <p>Bill No. 5</p> <p>Roof Coverings</p>				

	Unit	Quantity	Rate	Amount
Refer to GRS (Global Roofing Solutions) Steel Roofing and Walling Manual of Content.				
<u>PROFILE METAL SHEETING AND ACCESSORIES</u>				
<u>0.8mm Galvanised IBR profile light industrial steel sheeting with downturn edge with 'Colomet' finish to one side and half coat 'Classicoat Grey' to other side and fixed to 50 x 76mm SA pine purlins at min 750mm centres, including galvanised steel sheet accessories:</u>				
1	m²	20		
Roof covering with pitch not exceeding 17 degrees.				
2	m²	1 402		
Roof covering with pitch not exceeding 22 degrees.				
<u>SHEET METAL FLASHING, LINING, COPING, ETC.</u>				
<u>0.8mm Galvanised steel flashings to suite IBR profile with 'Colomet' finish to match roof covering:</u>				
3	m	137		
Ridge capping 550mm girth and three times bent along girth.				
4	m	274		
Narrow and Broad serrated flute closers.				
5	m	274		
Moulded narrow and Broad polyethylene filler blocks.				
<u>ROOF INSULATION</u>				
<u>'Sisalation', or similar approved insulation with 150mm minimum industrial overlap laid in accordance with manufactures specification:</u>				
6	m²	1 402		
Insulation laid under purlins and fixed concurrent with roof sheeting, including galvanised nails and straining wires.				
			R	
Carried to Collection				
Section No. 2				
Bill No. 5				
Roof Coverings				

BILL NO. 5
ROOF COVERINGS
COLLECTION

Amount

Page No

Brought Forward from Page

35

36

37

Carried To Section Summary

R

Section No. 2
Bill No. 5
Roof Coverings

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>REFURBISHMENTS</u></p> <p><u>BILL NO. 6</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Reference to drawings and details:</u></p> <p>Where drawings and/ or details have been referred to in the description of items the tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained.</p> <p><u>Fixing:</u></p> <p>Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete.</p> <p>Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as 'bolted', the bolts have been given elsewhere.</p> <p><u>Joinery:</u></p> <p>Descriptions of frames shall be deemed to include frames, transomes, rails, etc.</p> <p>Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts.</p> <p><u>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>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>				
Carried to Collection			R	
Section No. 2				
Bill No. 6				
Carpentry And Joinery				

	Unit	Quantity	Rate	Amount
<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>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>				
Carried to Collection			R	
Section No. 2				
Bill No. 6				
Carpentry And Joinery				
40				

		Unit	Quantity	Rate	Amount
	<p><u>PREFABRICATED ROOF TRUSSES, ETC.</u></p> <p><u>The following is applicable in respect of roof trusses, trusses not exceeding 17 degree pitch maximum 200mm centres. Roof covering galvanised IBR profile roof sheeting on 50mm x 76mm treated SA pine purlins at maximum 750mm centres. The contractor is to confirm dimensions from the Architect and confirm actual dimensions on site before fabrications:</u></p>				
1	<p>Roof construction to be double pitched roof with two gable ends size 7 100mm x 7 000mm with 1 800mm high overall, including wall plates, trusses, hurricane clips, rafters, permanent bracing and 50 x 76mm purlins at 750mm centres maximum for roof covering and 38mm x 38mm cleats complete as per Architect's drawing</p> <p><u>The following is applicable in respect of roof trusses, trusses not exceeding 22 degree pitch maximum 200mm centres. Roof covering galvanised IBR profile roof sheeting on 50mm x 76mm treated SA pine purlins at maximum 750mm centres. The contractor is to confirm dimensions from the Architect and confirm actual dimensions on site before fabrications:</u></p>	No	1		
2	<p>Roof construction to be double pitched roof with two gable ends size 31 000mm x 9 300mm with 1 880mm high overall, including wall plates, trusses, hurricane clips, rafters, permanent bracing and 50mm x 76mm purlins at 750mm centres maximum for roof covering and 38 x 38mm cleats complete as per Architect's drawing</p>	No	1		
3	<p>Roof construction to be double pitched L-shaped roof with two gable ends size 30 900mm x 9 600mm with 1 960mm high overall, including wall plates, trusses, hurricane clips, rafters, permanent bracing and 50mm x 76mm purlins at 750mm centres maximum for roof covering and 38mm x 38mm cleats complete as per Architect's drawing</p>	No	1		
4	<p>Roof construction to be double pitched L-shaped roof with two gable ends size 23 200mm x 8 700mm with 1 960mm high overall, including wall plates, trusses, hurricane clips, rafters, permanent bracing and 50mm x 76mm purlins at 750mm centres maximum for roof covering and 38mm x 38mm cleats complete as per Architect's drawing</p>	No	1		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 6				
	Carpentry And Joinery				
	41				

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BILL NO. 6

CARPENTRY AND JOINERY

COLLECTION

Amount

Page No

Brought Forward from Page

39

40

41

42

43

Carried To Section Summary

R

Section No. 2

Bill No. 6

Carpentry And Joinery

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u> <u>REFURBISHMENTS</u> <u>BILL NO. 7</u> <u>CEILINGS PARTITIONS AND ACCESS FLOORING</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing:</u></p> <p>Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete.</p> <p>Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as 'bolted', the bolts have been given elsewhere.</p> <p><u>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>				
Carried to Collection			R	
Section No. 2				
Bill No. 7				
Ceilings Partitions And Access Flooring				

		Unit	Quantity	Rate	Amount
<u>CEILING TIMBERS, BEADS, INSULATION, ETC</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 lapped not less than 50mm along all edges and laid on top of branderling between roof timbers, etc.	m²	915		
<u>NAILED UP CEILINGS</u>					
<u>6.4mm Nutec Everite ceiling nailed-up to 38mm x 38mm SA pine grade 6 branderling and to under side of trusses:</u>					
2	Ceilings including 38mm x 38mm Branderling at 400mm centres in one direction.	m²	915		
3	Extra over ceiling for 800mm x 800mm trap door with 38 x 50mm softwood frame and 38mm x 114mm nutech fibre cement , fitted flush in opening with 19 x 50mm wrot softwood fillets all round (Provisional).	No	16		
<u>6mm Thick fibre cement ceiling panels, fixed to 38mm x 50mm battens at 600mm centres using 32mm x 2.5mm serrated ceiling nails at 150mm centres,minimum of 12mm from edge of edge. All joints to be covered using H-profile white PVC jointing strips, all in accordance with the manufacturer's recommendation:</u>					
4	Ceilings including 38mm x 50mm sawn softwood branderling at 600mm centres in one direction.	m²	227		
5	Extra over ceiling for 800mm x 800mm trap door with 38 x 50mm softwood frame and 38mm x 114mm nutech fibre cement , fitted flush in opening with 19 x 50mm wrot softwood fillets all round (Provisional)	No	4		
<u>CORNICES</u>					
<u>Gypsum plasterboard cornices:</u>					
6	75mm x 69mm Coved cornice spiked to wall.	m	506		
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Carried to Collection					
Section No. 2					
Bill No. 7					
Ceilings Partitions And Access Flooring					

COLLECTION

45

46

Brought Forward from Page

R

Ceilings Partitions And Access Flooring

		Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>REFURBISHMENTS</u> <u>BILL NO. 8</u> <u>FLOOR COVERINGS</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <u>SUPPLEMENTARY PREAMBLES</u> <p>Flooring sub-contractor to approve floor screeds in writing to the Principal Agent before laying of vinyl floor sheeting.</p> <p><u>Fixing:</u> Floor coverings, wall linings, etc. shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc.</p> <p><u>Sizes:</u> 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>Rates:</u> Rates for vinly 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> <u>FLOOR COVERINGS</u> <u>300mm x 300mm x 2.5mm Thick 'Marley FloorworX' or similar approved semi-flexible vinyl floor tiles manufactured in accordance with SANS 581-1992, all laid in accordance with manufacturer's specifications (Code: MF2534):</u>					
1	On floors.	m ²	851		
<u>POLISH, SEALERS, ETC</u> <u>Scrub with a neutral detergent and seal with three coats water based polymer emulsion or other approved sealer:</u>					
2	On vinyl flooring.	m ²	851		
Carried To Section Summary				R	
Section No. 2					
Bill No. 8					
Floor Coverings					
48					

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>REFURBISHMENTS</u></p> <p><u>BILL NO. 9</u></p> <p><u>IRONMONGERY</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Reference to drawings and details:</u></p> <p>Where drawings and/ or details have been referred to Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained.</p> <p><u>Proprietary items:</u></p> <p>Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc. clarifying the features of the products/articles offered On request returnable samples are to be provided to the principal agent for consideration.</p> <p><u>Finishes to ironmongery:</u></p> <p>All ironmongery shall be in accordance with DORMAKABA specifications or equally approved unless otherwise described</p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded.</p>				
Carried to Collection			R	
Section No. 2				
Bill No. 9				
Ironmongery				

	Unit	Quantity	Rate	Amount
<u>IRONMONGERY TO DOORS, FRAMES, ETC.</u>				
<u>CATCHES, CABIN HOOKS, ETC.</u>				
<u>'DCLSA' or equally approved:</u>				
1	No	14		
SAA hat and coat buffer hook (code 154/69).				
<u>LOCKS</u>				
<u>'Union' or equally approved lockset with satin-chrome handles:</u>				
2	No	15		
4 Lever lockset, complete.				
3	No	3		
3 Lever lockset, complete.				
<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u>				
<u>Standard 'Parrot' or equally aproved wall aluminum frame wall mounted Swing Leaf Chalk Boards, with chalk trays (to be installed in strict accordance with the supplier/manufacturer specification):</u>				
4	No	14		
2400mm x 1200mm Chalkboard Non-Magnetic (Green) with standard 20mm wide aluminium frame with concealed mounting & Chalkrail at the back of board.				
5	No	14		
2400mm x 1200mm Bulletin Board with standard 20mm wide aluminium frame with concealed mounting & carpet finish.				
<u>SUNDRIES</u>				
6	No	20		
Rubber floor mounted door holder				
<u>"Union" or similar approved aluminium signage fixed manufacture's specification:</u>				
7	No	1		
152mm x 152mm x 3mm "GENTS" toilet sign				
8	No	1		
152mm x 152mm x 3mm "LADIES" toilet sign				
9	No	1		
152mm x 152mm x 3mm "BOYS" toilet sign				
10	No	1		
152mm x 152mm x 3mm "GIRLS" toilet sign				
11	No	14		
152mm x 152mm x 3mm "CLASSROOM" toilet sign				
12	No	2		
152mm x 152mm x 3mm "OFFICE" toilet sign				
13	No	1		
152mm x 152mm x 3mm "STORE ROOM" toilet sign				
Carried to Collection			R	
Section No. 2				
Bill No. 9				
Ironmongery				

BILL NO. 9
IRONMONGERY
COLLECTION

Amount

Page No

Brought Forward from Page

49

50

Carried To Section Summary

R

Section No. 2
Bill No. 9
Ironmongery

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>REFURBISHMENTS</u></p> <p><u>BILL NO. 10</u></p> <p><u>METALWORK</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Reference to drawings and details:</u></p> <p>Where drawings and/ or details have been referred to 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>General:</u></p> <p>All structural steel work shall be of mild steel complying with the requirements of SABS Code of Practice 0162 for structural steel in General Building Construction.</p> <p><u>Hot dip galvanised to steel work:</u></p> <p>All structural steel work shall be of mild steel complying with the requirements of SABS Code of Practice 0162 for structural steel in General Building Construction.</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>Preservation of steel work:</u></p> <p>All surfaces of steel are to be thoroughly cleaned of all rust, scale, oil or grease, all according with SABS Code of Practice 064 and then be given one (1) coat of primer complying with SABS Specification 909 before leaving the workshop.</p> <p>All steelwork built in as the work proceeds shall be hot dip galvanised after fabrication, but before leaving the manufacturers works, by the hot dip process, all in accordance with SABS Specifications 763.</p> <p><u>Descriptions of bolts, anchors, etc.:</u></p> <p>Unless otherwise described, descriptions of items shall be deemed to include for fixing to brickwork or concrete.</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 2</p> <p>Bill No. 10</p> <p>Metalwork</p>			R	
52				

	Unit	Quantity	Rate	Amount
<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>Fixing:</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> <ol style="list-style-type: none"> 1. A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product. 2. A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively. 3. A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process. 4. A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked. 				
Carried to Collection				
Section No. 2			R	
Bill No. 10				
Metalwork				
53				

[illegible]

BILL NO. 10
METALWORK
COLLECTION

Amount

Page No

Brought Forward from Page

52

53

54

Carried To Section Summary

R

Section No. 2
Bill No. 10
Metalwork

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>REFURBISHMENTS</u></p> <p><u>BILL NO. 11</u></p> <p><u>PLASTERING</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Moisture tests:</u></p> <p>Before any finishes, coverings, etc. are applied to screeds, plastering, etc. or any other in-situ finish moisture tests are to be carried out to the complete satisfaction of the Principal Agent to ensure that these surfaces have the correct moisture content for the finish to be applied.</p> <p><u>Labours, etc.:</u></p> <p>Labours such as fair, rounded and chamfered edges, trowel cuts, throats, V-joints, angles, etc. shall be deemed to be included in the descriptions.</p> <p><u>Granolithic:</u></p> <p>Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour.</p> <p>Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying.</p> <p>Granolithic shall be laid in panels not exceeding 14m\² for monolithic finishes, not exceeding 9,5m\² for bonded finishes and not exceeding 6m\² for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width.</p> <p>Unless otherwise described, granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic.</p>				
Carried to Collection			R	
Section No. 2				
Bill No. 11				
Plastering				

	Unit	Quantity	Rate	Amount
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.				
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.				
Cement plaster:				
Unless otherwise described, cement plaster shall be taken to mean Class 1 cement plaster.				
Self - levelling screed:				
To Contractor's expense should Grade 1 variance in F1 above not be achieved. Grind & prime existing surface with self-leveling Tal-Screed Master or equal & approved - thickness between between 4 to 5mm.				
SCREEDS				
Screeds wood floated, on concrete				
1 30mm Thick on floors and landings.	m ²	1 043		
INTERNAL PLASTER				
Cement plaster:				
2 On walls.	m ²	350		
3 On narrow widths.	m ²	35		
EXTERNAL PLASTER				
Cement plaster:				
4 On walls.	m ²	350		
5 On narrow widths.	m ²	35		
Carried to Collection			R	
Section No. 2 Bill No. 11 Plastering				

BILL NO. 11
PLASTERING
COLLECTION

Amount

Page No

Brought Forward from Page

56

57

Carried To Section Summary

R

Section No. 2
Bill No. 11
Plastering

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>REFURBISHMENTS</u></p> <p><u>BILL NO. 12</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>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>				
Carried to Collection			R	
Section No. 2				
Bill No. 12				
Plumbing And Drainage				

	Unit	Quantity	Rate	Amount
<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><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-siphon 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>				
Carried to Collection			R	
Section No. 2				
Bill No. 12				
Plumbing And Drainage				

	Unit	Quantity	Rate	Amount
<p><u>Reducing fittings:</u></p> <p>Where fittings have reducing ends or branches they are described as 'reducing' and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained.</p> <p><u>Fixing of pipes:</u></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc., casting in, building in or suspending not exceeding 1m below suspension level.</p> <p><u>Paper wrapping to pipes:</u></p> <p>Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings.</p> <p><u>Disinfection of water pipework:</u></p> <p>Water pipework is to be disinfected at completion in accordance with SABS 1200L (provision for disinfection elsewhere).</p> <p><u>Laying, backfilling, bedding, etc. of pipes:</u></p> <p>Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled.</p> <p>Where no manufacturers' instructions exist, pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following: SABS 1200L : Medium-pressure pipelines SABS 1200LD : Sewers SABS 1200LE : Stormwater drainage Pipe trenches, etc. shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200LB : Bedding (Pipes) Unless otherwise described bedding of rigid pipes shall be Class B bedding.</p> <p><u>General:</u></p> <p>Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc. are given separately) Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends.</p>				
Carried to Collection			R	
Section No. 2				
Bill No. 12				
Plumbing And Drainage				

		Unit	Quantity	Rate	Amount
	<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><u>As-built drawings</u></p> <p>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).</p> <p><u>RAINWATER DISPOSAL</u></p> <p><u>0.8mm Thick seamless pre-painted aluminium Ogee Gutters and accessories:</u></p> <p>1 150mm x 125mm x 0.8mm Ogee profile gutters, including fixing to fibre cement fascia, with heavy duty fixing brackets.</p> <p>2 Extra over for angle.</p> <p>3 Extra over for stop ends.</p> <p>4 Extra over for outlet for 75 x 50mm pipe.</p> <p>5 100mm x 75mm x 0.8mm Thick rainwater down pipes.</p> <p>6 Extra over rainwater down pipe for bend.</p> <p>7 Extra over rainwater down pipe for shoe.</p> <p><u>SANITARY FITTINGS</u></p> <p><u>'Franke Model Oval B' Stainless steel Basins' or equally approved:</u></p> <p>8 420mm x 336mm x 168mm deep stainless steel wall mounted wash hand basin including bolting to wall</p> <p><u>'Franke Model TE' Barron Bowl Urinal or equally approved:</u></p> <p>9 316mm x 425mm x 241mm wall mounted stainless steel urinal</p>				
	Carried to Collection				
	Section No. 2				
	Bill No. 12				
	Plumbing And Drainage				
	62				

		Unit	Quantity	Rate	Amount
	<u>Sanitary Accessories:</u>				
10	Franke Rodan RODX672 0,8mm thick satin finished stainless steel double toilet roll holder with spindle system (Code: 2120101), size 144 x 138 x 301mm high for 2 rolls maximum 120mm diameter with cylinder lock with standard Franke key, plugged and screwed to the wall with stainless steel screws (D-001).	No	10		
11	AQUARIUS' or equal and approved Folded Hand Towel Dispenser - Interfold colour White (Code: 6945000), overall size 265 x 399 x 136mm high, installed by a specialist's installation team (PTD).	No	2		
12	'Sanibin' or equal and approved, stainless steel sanitary towel bin (STB).	No	2		
	<u>TAPS, VALVES, ETC</u>				
	<u>Cobra or similar approved:</u>				
13	15mm Stopcock.	No	10		
	<u>'Cobra Watertech' or equally approved:</u>				
14	15mm Chrome plated (code BS 5412) plated square pattern elbow Pillartap.	No	5		
15	40mm Chromium plated bottle trap	No	1		
	<u>SANITARY PLUMBING</u>				
	<u>uPVC pipes:</u>				
16	40mm Pipes.	m	25		
17	110mm Pipes.	m	25		
	<u>Extra over uPVC pipes for fittings or equally approved:</u>				
18	40mm fitting	No	5		
19	110mm fittings	No	5		
	<u>WATER SUPPLIES</u>				
	<u>Polypropylene pipes:</u>				
20	15mm Pipes.	m	50		
21	28mm Pipes.	m	50		
	<u>Extra over polypropylene pipes for brass compression fittings:</u>				
22	15mm Fittings.	No	15		
23	28mm Fittings.	No	15		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 12				
	Plumbing And Drainage				

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BILL NO. 12
PLUMBING AND DRAINAGE
COLLECTION

Amount

Page No

Brought Forward from Page

59

60

61

62

63

64

Carried To Section Summary

R

Section No. 2
 Bill No. 12
 Plumbing And Drainage

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>REFURBISHMENTS</u> <u>BILL NO. 13</u> <u>GLAZING</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>Float glass:</u> The term 'float glass' is used for monolithic annealed glass. The term 'float glass' is used for monolithic annealed glass.</p> <p><u>Laminated glass:</u> Laminated glass to have polyvinyl butyral (PVB) interlayer(s). Laminated glass to have polyvinyl butyral (PVB) interlayer(s).</p> <p><u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u> <u>6mm Thick silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork:</u> <u>GLAZING TO STEEL WITH PUTTY</u> <u>6.38mm Laminated safety clear glass:</u></p> <p>1 Panes not exceeding 0,1m. m² 50</p> <p>2 Panes exceeding 0,1m and not exceeding 0,5m. m² 50</p> <p><u>6mm Thick silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork:</u></p> <p>3 Mirror 700 x 650mm high concealed thief resistant fixings. No 5</p> <p>4 Mirror 700 x 650mm high concealed thief resistant fixings. No 5</p> <p style="text-align: right;">Carried To Section Summary</p> <p>Section No. 2 Bill No. 13 Glazing</p>				
			R	

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>REFURBISHMENTS</u> <u>BILL NO. 14</u> <u>PAINTWORK</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Painting specification:</u> <p>All painting shall be done in accordance with SABS specifications unless otherwise described</p> <u>Colours:</u> <p>Unless otherwise described, all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SABS 1091</p> <p>When staining timber, the resultant colour or shade must be to the complete satisfaction of the Principal Agent before any overcoating or preservative is applied</p> <u>Prepare surfaces and remove all loose material, apply one coat plaster primer and two coats super acrylic:</u> <p>All painting shall be done in accordance with SABS specifications unless otherwise described</p> <u>ON FIBRE-CEMENT BOARD SURFACES</u> <u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use:</u>				
1				
Ceilings and cornices, including priming metal cover strips and nailheads.	m ²	227		
2				
Fascias and barge boards, including priming metal jointing strips.	m ²	106		
<u>ON GYPSUM BOARD SURFACES</u> <u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use:</u>				
3				
Ceilings and cornices, including priming metal cover strips and nailheads.	m ²	915		
Carried to Collection			R	
Section No. 2				
Bill No. 14				
Paintwork				
67				

	Unit	Quantity	Rate	Amount
<u>ON METAL SURFACES</u>				
<u>One coat alkyd based zinc chromate primer and two coats gloss enamel paint, on steel:</u>				
4	Door frames.	m ²	12	
<u>ON WOOD SURFACES</u>				
<u>Three coats exterior quality penetrating wood preservative:</u>				
5	Roof timbers at eaves and verges.	m ²	15	
<u>Three coats superior quality clear gloss varnish:</u>				
6	Skirtings, rails, etc. not exceeding 300mm girth.	m	407	
<u>One coat wood primer and two coats oil based paint to:</u>				
7	Internal doors.	m ²	11	
<u>One coat nova dark brown and two coats sanded lightly between coats to:</u>				
8	External doors.	m ²	22	
<u>ON EXISTING INTERNAL FLOATED PLASTER SURFACES</u>				
<u>Prepare surfaces and remove all loose material, apply one coat plaster primer and two coats super acrylic:</u>				
9	On walls.	m ²	326	
10	In narrow widths.	m ²	1	
<u>ON EXISTING EXTERNAL FLOATED PLASTER SURFACES</u>				
<u>Prepare surfaces and remove all loose material, apply one coat plaster primer and two coats super acrylic:</u>				
11	On walls.	m ²	228	
12	In narrow widths.	m ²	1	
<u>ON EXISTING METAL SURFACES</u>				
<u>One coat alkyd based universal undercoat and one coat superior quality universal enamel paint</u>				
13	Windows.	m ²	50	
14	Window burglar bars.	m ²	50	
Carried to Collection				R
Section No. 2				
Bill No. 14				
Paintwork				

68

BILL NO. 14
PAINTWORK
COLLECTION

Amount

Page No

Brought Forward from Page

67

68

Carried To Section Summary

R

Section No. 2
Bill No. 14
Paintwork

SECTION SUMMARY

Page
22
28
31
34
38
44
47
48
51
55
58
65
66
69

R

Section No. 2
SECTION SUMMARY

SECTION NO. 3
NEW BUILDINGS

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>NEW BUILDINGS</u></p> <p><u>BILL NO. 1</u></p> <p><u>EARTHWORKS</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 which are both obtainable from the Public Works website</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground:</u></p> <p>A soils investigation has been carried out on the site by the engineer and the report is annexed to these bills of quantities. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as 'earth'. All very hard unweathered shale, ironstone, etc., the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as 'hard rock'</p> <p><u>Subterranean water:</u></p> <p>No subterranean water is expected</p> <p><u>Excavation for working space in rock:</u></p> <p>Notwithstanding clause 11 page 8 of the Standard System of Measuring Building Work, excavation for working space in rock will be measured in cubic metres to the extent executed and given as 'extra over' bulk excavation or trench and hole excavation as the case may be</p> <p><u>Carting away of excavated material:</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><u>Filling:</u></p> <p>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material</p> <p><u>Testing:</u></p> <p>Prices for filling are to include for all necessary density tests in accordance with SABS 1200D</p>				
Carried to Collection			R	
Section No. 3				
Bill No. 1				
Earthworks				

		Unit	Quantity	Rate	Amount
	<u>SITE CLEARANCE ETC</u>				
	<u>Site clearance:</u>				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc. and trees not exceeding 200mm girth	m ²	104		
2	Stripping average 150mm thick layer of top soil and depositing material in prescribed stock piles on site	m ²	209		
	<u>EXCAVATION OTHER THAN BULK, ETC</u>				
	<u>Excavation in earth not exceeding 2m deep:</u>				
3	Trenches and ground beams	m ³	26		
	<u>Excavation in earth exceeding 2000mm deep but not exceeding 4000mm:</u>				
4	Toilet Pit	m ³	147		
	<u>Extra over trench and hole excavations in earth for excavation in:</u>				
5	Soft rock	m ³	17		
6	Hard rock	m ³	9		
	<u>Extra over all excavations for carting away:</u>				
7	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m ³	173		
	<u>Keeping excavations free of water:</u>				
8	Keeping excavations free of all water other than subterranean water	Item			
	<u>Risk of collapse of excavations, other than bulk:</u>				
9	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	21		
10	Ditto, but to sides of toilet pit exceeding 1500mm deep but not exceeding 4000mm deep	m ²	89		
	<u>FILLING ETC OTHER THAN BULK</u>				
	<u>Earth filling supplied by the contractor, compacted to 95% Mod AASHTO density:</u>				
11	Under floors, steps, pavings, etc.	m ³	15		
	<u>Coarse river sand filling supplied by the contractor:</u>				
12	Under floors etc.	m ³	3		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 1				
	Earthworks				

[illegible]

BILL NO. 1
EARTHWORKS
COLLECTION

Amount

Page No

Brought Forward from Page

72

73

74

Carried To Section Summary

R

Section No. 3
Bill No. 1
Earthworks

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u> <u>NEW BUILDINGS</u> <u>BILL NO. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cost of tests:</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 Tests of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)</p> <p><u>Formwork:</u></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as 'left in' or 'permanent'), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself</p> <p>Formwork to soffits of solid slabs etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described</p> <p>Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described</p> <p><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></p> <p><u>10MPa/19mm concrete:</u></p>				
1	Surface blinding in cast in toilet pits	m ³	1	
Carried to Collection				R
Section No. 3				
Bill No. 2				
Concrete, Formwork And Reinforcement				

	Unit	Quantity	Rate	Amount
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>25MPa/19mm concrete:</u>				
2	m³	2		
3	m³	4		
4	m³	5		
<u>TEST CUBES</u>				
<u>Test cubes:</u>				
5	Sets	4		
<u>CONCRETE SUNDRIES</u>				
<u>Finishing top surfaces of concrete smooth with a power float:</u>				
6	m²	28		
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II) (CPAP WORK GROUP NO. 111)</u>				
<u>Rough formwork to sides:</u>				
7	m	27		
<u>Boxing out rough formwork to form:</u>				
8	m	10		
<u>PERMANENT FORMWORK</u>				
<u>Decking for slabs with ends laid on brick walls:</u>				
9	m²	13		
<u>MOVEMENT JOINTS, ETC.</u>				
<u>Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces:</u>				
10	m	40		
<u>Saw-cut joints:</u>				
11	m	23		
Carried to Collection				R
Section No. 3				
Bill No. 2				
Concrete, Formwork And Reinforcement				

77

[illegible]

BILL NO. 2

CONCRETE, FORMWORK AND REINFORCEMENT
COLLECTION

Amount

Page No

Brought Forward from Page

76

77

78

Carried To Section Summary

R

Section No. 3

Bill No. 2

Concrete, Formwork And Reinforcement

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>NEW BUILDINGS</u></p> <p><u>BILL NO. 3</u></p> <p><u>MASONRY</u></p> <p><u>PREAMBLES</u></p> <p>The Bidder is referred to the relevant clauses in a separate document 'SPECIFICATION OF MATERIALS & METHODS' to be used PW371A (Edition 2.1 July 2014) from The Department of Public Works.</p> <p><u>FIBRE-CEMENT WINDOW SILLS</u></p> <p>The Bidder is referred to the relevant clauses in a separate document 'SPECIFICATION OF MATERIALS & METHODS' to be used PW371A (Edition 2.1 July 2014) from The Department of Public Works.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>BRICKWORK</u></p> <p><u>Sizes in descriptions:</u></p> <p>Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick</p> <p><u>Hollow walls:</u></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole</p> <p><u>Bagged and sealed walls:</u></p> <p>Walls in two skins described as 'bagged and sealed' shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating</p> <p><u>Face bricks:</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing:</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.</p> <p><u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc.:</u></p> <p>Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick</p>				
Carried to Collection			R	
Section No. 3				
Bill No. 3				
Masonry				

		Unit	Quantity	Rate	Amount
	<u>BRICKWORK IN FOUNDATIONS</u>				
	<u>Brickwork of NFP bricks in class II mortar:</u>				
1	Half Brick Walls	m ²	8		
2	One Brick Walls, internal skin to be bag washed and painted with bitumen.	m ²	153		
3	330mm x 330mm Brick pier with concrete infill (concrete in fill elsewhere measured)	m ³	1		
	<u>BRICKWORK IN SUPERSTRUCTURE</u>				
	<u>Brickwork of NFP bricks in class II mortar:</u>				
4	Half brick walls	m ²	23		
5	Half brick walls in beamfilling	m ²	3		
6	One brick walls	m ²	87		
	<u>BRICKWORK SUNDRIES</u>				
	<u>2.5mm Brickwork reinforcement:</u>				
7	75mm Wide reinforcement built-in horizontally in foundations.	m	87		
8	150mm Wide reinforcement built-in horizontally in foundations.	m	226		
9	150mm Wide reinforcement built-in horizontally	m	325		
	<u>Prestressed fabricated Facebrick lintels including necessary temporary supports:</u>				
10	110mm x 75mm Lintels in lengths not exceeding 3 000mm	m	17		
	<u>Turning pieces to lintels etc.:</u>				
11	220mm Wide turning pieces	m	2		
	<u>Galvanised hoop iron cramps, ties, etc.:</u>				
12	30mm x 1.6mm Cramp 500mm length with one end fixed to timber and other end built into brickwork	No	16		
	<u>Air bricks etc.:</u>				
13	229mm x 152mm Clay vermin proof air brick	No	10		
	<u>FACE BRICKWORK</u>				
	<u>"COROBRIC FIRELIGHT SATN " or similar approved face bricks pointed with recessed horizontal and vertical joints:</u>				
14	Extra over brickwork for face brickwork	m ²	138		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 3				
	Masonry				
	81				

		Unit	Quantity	Rate	Amount
15	Ditto in foundations	m ²	37		
16	Fair raking cutting	m ²	22		
	<u>Brick-on-edge header course copings, sills, etc. of selected face bricks, pointed with recessed joints on all exposed faces:</u>				
17	220mm Wide sills set sloping and slightly projecting	m	10		
Carried to Collection				R	
Section No. 3					
Bill No. 3					
Masonry					
82					

BILL NO. 3
MASONRY
COLLECTION

Amount

Page No

Brought Forward from Page

80

81

82

Carried To Section Summary

R

Section No. 3
Bill No. 3
Masonry

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>NEW BUILDINGS</u></p> <p><u>BILL NO. 4</u></p> <p><u>WATERPROOFING</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Waterproofing:</u></p> <p>Waterproofing of roofs, basements, etc. shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc. with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs.</p> <p><u>General:</u></p> <p>No damp-proof course shall be laid directly below the mortar or other bedding material under sills.</p> <p>Similar damp proof course, but in unbroken lengths, shall be laid behind all window sills, sealed with an approved bituminous solution to the back of the sills and taken down within the thickness of the wall and under the first full course of external brickwork.</p> <p>Where so required all laps in the damp proof course shall be sealed over the whole area of laps as recommended by the manufacture. Care shall be taken not to tear or otherwise damage the sheeting.</p> <p>The damp proof course shall be the full thickness of walls above foundations, plus the width of floors plates where these occur, and shall be laid without longitudinal joints. At end joints, angles and intermediate junctions the sheeting shall be lapped for 150mm.</p> <p>Waterproofing of roofs, basements, etc. shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc. with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs.</p>				
Carried to Collection			R	
Section No. 3				
Bill No. 4				
Waterproofing				

	Unit	Quantity	Rate	Amount
<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
<u>One layer 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B):</u>				
1	In walls.	m ²	11	
2	Under window cills.	m ²	2	
<u>One layer 250 micron gunplas black polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape:</u>				
3	Under surface beds.	m ²	51	
4	Under ground beams.	m ²	23	
5	Under pit surface beds and around toilet pit vertical walls	m ²	51	
<u>SEALING STRIPS, JOINT SEALANTS, ETC</u>				
<u>Clear silicone sealant:</u>				
6	In waterproofing joints between timber, porcelain or stainless steel fitting tops and walls.	m	24	
<u>Bitumen impregnated foam plastic joint sealing strips:</u>				
7	10mm x 20mm In expansion joints.	m	40	
<u>Two-part polyurethane sealing compound including backing cord, bond breaker, primer, etc.:</u>				
8	6mm x 10mm In saw cut joints in floors.	m	25	
<u>WATERPROOFING OF TOILET PIT WALLS AND FLOORS</u>				
<u>20mm "COPROX" or similar approved membrane, including preparation of surfaces and application as per manufacturer's product application instructions:</u>				
9	Corners of toilet pit.	m	15	
<u>Two coats "ABE DURAFLEX" and two coats "ABE COTE SF 365" or similar approved waterproof coating, including preparation of surfaces and application as per manufactures product application instructions:</u>				
10	On concrete floors.	m ²	49	
11	On brick walls.	m ²	247	
Carried to Collection				R
Section No. 3				
Bill No. 4				
Waterproofing				

85

BILL NO. 4
WATERPROOFING
COLLECTION

Amount

Page No

Brought Forward from Page

84

85

Carried To Section Summary

R

Section No. 3
Bill No. 4
Waterproofing

		Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>NEW BUILDINGS</u> <u>BILL NO. 5</u> <u>ROOF COVERINGS</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013</p> <u>PROFILE METAL SHEETING AND ACCESSORIES</u> <u>0.5mm Galvanised IBR profile light industrial steel sheeting with downturn edge with 'Colomate' finish to one side and half coat 'Classicoat Grey' to other side and fixed to 76mm SA pine purlins at min 1000mm centres, including galvanised steel sheet accessories:</u>					
1	Roof covering with pitch not exceeding 5 degrees.	m ²	56		
<u>SHEET METAL FLASHING, LINING, COPING, ETC.</u> <u>0.5mm Galvanised steel flashings to suite IBR profile with 'Colomate' finish to match roof covering:</u>					
2	Ridge capping	m	10		
3	Narrow and Broad serrated flute closers	m	21		
4	Moulded narrow and Broad polyethylene filler blocks.	m	21		
<u>ROOF INSULATION</u> <u>'Rhino Plastic' Enviro-tuff Supreme 202, or similar approved insulation with 150mm minimum industrial overlap laid in in accordance with manufactures specification:</u>					
5	Insulation laid under purlins and fixed concurrent with roof sheeting, including galvanised nails and straining wires.	m ²	56		
Carried To Section Summary				R	
Section No. 3					
Bill No. 5					
Roof Coverings					
87					

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>NEW BUILDINGS</u> <u>BILL NO. 6</u> <u>CARPENTRY AND JOINERY</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Fixing:</u> <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> <u>Joinery:</u> <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> <u>Decorative thermosetting plastic laminate covering:</u> <p>Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish</p> <u>ROOFS, ETC.</u> <u>SA Pine grade 6:</u>				
1	m	14		
2	m	41		
3	m	39		
Carried to Collection			R	
Section No. 3				
Bill No. 6				
Carpentry And Joinery				
88				

		Unit	Quantity	Rate	Amount
<u>FRAMED DOORS, ETC.</u>					
<u>Solid Hardwood timber doors:</u>					
4	44mm Framed ledged, braced and battened door 813mm x 2032mm high of 44mm x 108mm top rail and stiles, 22mm x 108mm middle ledge and braces and 22mm x 222mm bottom ledge filled in with 22mm x 70mm tongued , grooved and V-jointed one side boarding and covered on the other side with 3mm plywood with verneer to match door let into and including rebates all around including 44 x 70mm splayed, moulded and grooved weatherboard hung to steel frames.	No	1		
<u>SEMI SOLID CORE FLUSH DOORS</u>					
<u>Solid flush doors with commercial verneer hung to steel frames:</u>					
5	40mm x 813mm x 1400mm high door.	No	4		
6	40mm x 813mm x 2032mm high flash panel door.	No	1		
<u>DOOR FRAMES, ETC.</u>					
<u>Wrought softwood:</u>					
7	86mm x 68mm Rebated linings, plugged.	m	4		
<u>EAVES, VERGES, ETC</u>					
<u>High density plain fibre-cement fascias and barge boards:</u>					
8	10mm x 225mm 'Nutec Everite' or equally approved high density plain cement fascia board, twice screwed to, and including 38mm x 38mm trimmer battens with hot dipped galvanised screws and washers with aluminium H-profile fascia board jointers between boards.	m	14		
9	200mm x 80mm 'Nutec Everite' or equally approved moulded barge board, twice screwed to, and including 38mm x 38mm trimmer battens with hot dipped galvanised screws and washers with aluminium H-profile barge board jointers between boards.	m	13		
				R	
Carried to Collection					
Section No. 3					
Bill No. 6					
Carpentry And Joinery					

89

BILL NO. 6
CARPENTRY AND JOINERY
COLLECTION

Amount

Page No

Brought Forward from Page

88

89

Carried To Section Summary

R

Section No. 3
Bill No. 6
Carpentry And Joinery

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>NEW BUILDINGS</u></p> <p><u>BILL NO. 7</u></p> <p><u>CEILINGS PARTITIONS AND ACCESS FLOORING</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013.</p> <p><u>NAILED UP CEILINGS</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013.</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>				
Carried to Collection				
Section No. 3				
Bill No. 7				
Ceilings Partitions And Access Flooring				
91				

	Unit	Quantity	Rate	Amount
<p><u>NAILED UP CEILINGS</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>NAILED UP CEILINGS</u></p> <p><u>Gypsum plasterboard cornices:</u></p> <p>Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete.</p> <p><u>NAILED UP CEILINGS</u></p> <p><u>Gypsum plasterboard cornices:</u></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>NAILED UP CEILINGS</u></p> <p><u>Ceilings:</u></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal.</p> <p><u>NAILED UP CEILINGS</u></p> <p><u>Gypsum plasterboard cornices:</u></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal.</p> <p><u>NAILED UP CEILINGS</u></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>				
Carried to Collection			R	
Section No. 3				
Bill No. 7				
Ceilings Partitions And Access Flooring				

		Unit	Quantity	Rate	Amount
<u>NAILED UP CEILINGS</u> <u>Gypsum plasterboard cornices:</u> 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. <u>NAILED UP CEILINGS</u> <u>Gypsum plasterboard cornices:</u> 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. <u>NAILED UP CEILINGS</u> <u>Gypsum plasterboard cornices:</u> Unless otherwise described bulkheads shall be deemed to be horizontal along the length. <u>NAILED UP CEILINGS</u> <u>Steel components:</u> All steel components for ceilings, partitions, etc. are to be galvanised in accordance with SANS 121. <u>NAILED UP CEILINGS</u> <u>Gypsum plasterboard cornices:</u> All steel components for ceilings, partitions, etc. are to be galvanised in accordance with SANS 121. <u>NAILED UP CEILINGS</u> <u>4mm Nutect Everite ceiling nailed-up to 38mm x 38mm SA pine grade 6 brandering and to under side of trusses:</u>					
1	Ceilings including 38mm x 38mm Brandering at 400mm centers in one direction:	m ²	21		
2	Extra over ceiling for 800mm x 800mm trap door with 38 x 50mm softwood frame and 38mm x 114mm nutech fibre cement , fitted flush in opening with 19mm x 50mm wrot softwood fillets all round (Provisional).	No	1		
3	<u>Gypsum plasterboard cornices:</u> 75mm x 20mm Coved cornice spiked to wall.	m	19		
Carried to Collection				R	
Section No. 3					
Bill No. 7					
Ceilings Partitions And Access Flooring					
93					

COLLECTION

91
92
93

91
92
93

R

Ceilings Partitions And Access Flooring

		Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u> <u>NEW BUILDINGS</u> <u>BILL NO. 8</u> <u>IRONMONGERY</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary items:</u></p> <p>Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc. clarifying the features of the products/articles offered On request returnable samples are to be provided to the principal agent for consideration.</p> <p><u>Finishes to ironmongery:</u></p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded.</p> <p>Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc. clarifying the features of the products/articles offered On request returnable samples are to be provided to the principal agent for consideration.</p> <p><u>IRONMONGERY TO DOORS, FRAMES, ETC.</u></p> <p><u>'Howick' or Equally Approved:</u></p>					
1	150mm x 32mm Satin chrome plated barrel bolt.	No	4		
Carried to Collection				R	
Section No. 3					
Bill No. 8					
Ironmongery					
95					

	Unit	Quantity	Rate	Amount
<u>CATCHES, CABIN HOOKS, ETC.</u>				
<u>'DCLSA' or Equally Approved:</u>				
2	No	1		
SAA hat and coat buffer hook (code 154/69).				
<u>LOCKS</u>				
<u>'Union' or Equally Approved lockset with satin-chrome handles:</u>				
3	No	2		
4 Lever lockset, complete.				
4	No	2		
Grand master key.				
<u>HANDLES</u>				
<u>Handles, etc.:</u>				
5	Sets	2		
Lever handle on rose with cylinder escutcheons. (code CR001 Cyl S.S)				
6	No	1		
325mm x 25mm Straight tubular pull handle flange fixing. (code DPH301B)				
<u>LETTERS, NAME PLATE, ETC</u>				
<u>"Union" or Equally Approved aluminium signage fixed manufacture's specification:</u>				
7	No	1		
152mm x 152mm x 3mm "MALE" toilet sign				
8	No	1		
152mm x 152mm x 3mm "FEMALE" toilet sign				
9	No	1		
152mm x 152mm x 3mm "DISABLED" toilet sign				
<u>SUNDRIES</u>				
<u>"Union" or Equally Approved:</u>				
10	No	6		
Brass floor mounted door holder, product code '401'				
			R	
Carried to Collection				
Section No. 3				
Bill No. 8				
Ironmongery				
96				

BILL NO. 8
IRONMONGERY
COLLECTION

Amount

Page No

Brought Forward from Page

95

96

Carried To Section Summary

R

Section No. 3
Bill No. 8
Ironmongery

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>NEW BUILDINGS</u></p> <p><u>BILL NO. 9</u></p> <p><u>METALWORK</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>General:</u></p> <p>All structural steel work shall be of mild steel complying with the requirements of SABS Code of Practice 0162 for structural steel in General Building Construction.</p> <p><u>Hot dip galvanised to steel work:</u></p> <p>All structural steel work shall be of mild steel complying with the requirements of SABS Code of Practice 0162 for structural steel in General Building Construction.</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>Reference to drawings and details:</u></p> <p>All surfaces of steel are to be thoroughly cleaned of all rust, scale, oil or grease, all according with SABS Code of Practice 064 and then be given one (1) coat of primer complying with SABS Specification 909 before leaving the workshop.</p> <p>All steelwork built in as the work proceeds shall be hot dip galvanised after fabrication, but before leaving the manufacturers works, by the hot dip process, all in accordance with SABS Specifications 763.</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>				
Carried to Collection			R	
Section No. 3				
Bill No. 9				
Metalwork				

	Unit	Quantity	Rate	Amount
<p><u>Preservation of steel work:</u></p> <p>All surfaces of steel are to be thoroughly cleaned of all rust, scale, oil or grease, all according with SABS Code of Practice 064 and then be given one (1) coat of primer complying with SABS Specification 909 before leaving the workshop.</p> <p><u>Descriptions of bolts, anchors, etc.:</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 "bloted", 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> <ol style="list-style-type: none"> 1. A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product. 2. A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively. 				
Carried to Collection			R	
Section No. 3				
Bill No. 9				
Metalwork				

	Unit	Quantity	Rate	Amount
3. A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process.				
4. A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked.				
5. A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for a period of not less than five years.				
GALVANISED STEEL MINOR WORKS				
<u>Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete:</u>				
75mm x 75mm Square tubing support.	Tonnes	1		
GALVANIZED STEEL DOOR FRAMES				
<u>1.2mm Rebated frames suitable for 110mm one brick walls:</u>				
Frame for single door 813mm x 2032mm high.	No	1		
<u>1.2mm Rebated frames suitable for 220mm one brick walls:</u>				
Frame for single door 813mm x 2032mm high.	No	1		
<u>GALVANISED STEEL GATES, SCREENS, ETC.</u>				
<u>Welded screens and gates:</u>				
Single gate 915mm x 2175mm high of 50mm x 50mm x 3mm square section outer frame and 50mm x 50mm x 3mm square section inner frame welded to outer frame, filled in with 19mm diameter steel rods all round to inner frame at 110mm centres and fitted with a pair of suitable hinges welded to post and with lockable sliding bolt with keep in gate post.	No	1		
			R	
Section No. 3 Bill No. 9 Metalwork				

Carried to Collection

R

100

[illegible]

BILL NO. 9
METALWORK
COLLECTION

Amount

Page No

Brought Forward from Page

98

99

100

101

Carried To Section Summary

R

Section No. 3
Bill No. 9
Metalwork

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>NEW BUILDINGS</u></p> <p><u>BILL NO. 10</u></p> <p><u>PLASTERING</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Moisture tests:</u></p> <p>Before any finishes, coverings, etc are applied to screeds, plastering, etc or any other in-situ finish moisture tests are to be carried out to the complete satisfaction of the Principal Agent to ensure that these surfaces have the correct moisture content for the finish to be applied.</p> <p><u>Labours, etc.:</u></p> <p>Labours such as fair, rounded and chamfered edges, trowel cuts, throats, V-joints, angles, etc shall be deemed to be included in the descriptions.</p> <p><u>Granolithic:</u></p> <p>Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour.</p> <p>Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying.</p> <p>Granolithic shall be laid in panels not exceeding 14m\^2 for monolithic finishes, not exceeding 9,5m\^2 for bonded finishes and not exceeding 6m\^2 for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width.</p> <p>Unless otherwise described, granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic.</p>				
Carried to Collection			R	
Section No. 3				
Bill No. 10				
Plastering				

[illegible]

BILL NO. 10
PLASTERING
COLLECTION

Amount

Page No

Brought Forward from Page

103

104

Carried To Section Summary

R

Section No. 3
Bill No. 10
Plastering

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>NEW BUILDINGS</u></p> <p><u>BILL NO. 11</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Wire gratings:</u></p> <p>Descriptions of gutter outlets etc. shall be deemed to include wire balloon gratings</p> <p><u>Stormwater channels:</u></p> <p>Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc., and disposal of surplus material on site</p> <p><u>French drains:</u></p> <p>Descriptions of French drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, ? geofabric filter blanket over stone, 300mm earth filling over and disposal of surplus material on site</p> <p>Descriptions of French drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, Approved geofabric filter blanket over stone, 300mm earth filling over and disposal of surplus material on site</p> <p><u>Stainless steel basins, sinks, wash troughs, urinals, etc.:</u></p> <p>Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0) Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc. shall be Type 304 (18/8) Stainless steel for laboratory sinks, photographic equipment, etc. shall be Type 316 (18/8) Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><u>Sealing of edges:</u></p> <p>Outer edges of sinks, basins, baths, urinals, etc. are to be sealed against adjacent surfaces with approved silicone</p>				
Carried to Collection			R	
Section No. 3				
Bill No. 11				
Plumbing And Drainage				

	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-siphon 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>				
Carried to Collection			R	
Section No. 3				
Bill No. 11				
Plumbing And Drainage				

	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>				
Carried to Collection			R	
Section No. 3				
Bill No. 11				
Plumbing And Drainage				

		Unit	Quantity	Rate	Amount
	Descriptions of WC pans, slop hoppers, etc. shall be deemed to include for joints to soil pipes (pan connectors are separately measured)				
	<u>As-built drawings</u>				
	Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)				
	<u>RAINWATER DISPOSAL</u>				
	<u>0.6mm Thick seamless pre-painted aluminium Ogee Gutters and accessories:</u>				
1	125mm x 85mm x 0.6mm Ogee profile gutters, including fixing to fiber cement fascia, with heavy duty fixing brackets.	m	7		
2	Extra over for stop ends.	No	2		
3	Extra over for outlet for 75mm x 50mm pipe.	No	1		
4	Rainwater down pipes.	m	3		
5	Extra over rainwater down pipe for bend.	No	2		
6	Extra over rainwater down pipe for shoe.	No	1		
7	Extra over rainwater pipe for eaves or plinth offset maximum 500mm projection.	No	1		
	<u>SANITARY FITTINGS</u>				
	<u>'Atlas plastics' or equally approved:</u>				
8	'Christy hand wash basin' overall size 570mm x 400mm x 245mm deep plastic wall mounted wash hand basin including bolting to wall	No	4		
9	Moulded polyethylene pedestal for Grade R with incorporated seat and flap, size 282 x 300mm high with foot piece and VIP 200 inlet funnel.	No	4		
10	Moulded polyethylene pedestal with incorporated seat and flap (code 222AP), size 387mm x 518mm high with foot piece and VIP 200 inlet funnel (code 224AP).	No	1		
	<u>Sanitary Accessories:</u>				
11	Standard vandal proof 2 roll holder (TR2) white including plugging to wall with mild steel wall screws with PVC wall anchors.	No	5		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 11				
	Plumbing And Drainage				
	109				

	Unit	Quantity	Rate	Amount
<u>32mm Diameter stainless steel grab rails in disabled toilets:</u>				
12	No	1		
13	No	1		
<u>TAPS, VALVES, ETC</u>				
<u>Cobra or similar approved:</u>				
14	No	3		
15	No	1		
<u>'Cobra Watertech' or equally approved:</u>				
16	No	1		
17	No	3		
18	No	4		
<u>SANITARY PLUMBING</u>				
<u>uPVC Pipes:</u>				
19	m	25		
20	m	15		
<u>Extra over uPVC pipes for fittings or equally approved:</u>				
21	No	13		
22	No	8		
23	No	3		
<u>WATER SUPPLIES</u>				
<u>Polypropylene pipes:</u>				
24	m	20		
25	m	20		
<u>Extra over polypropylene pipes for brass compression fittings:</u>				
26	No	10		
27	No	10		
Carried to Collection				R
Section No. 3				
Bill No. 11				
Plumbing And Drainage				

110

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BILL NO. 11
PLUMBING AND DRAINAGE
COLLECTION

Amount

Page No

Brought Forward from Page

106

107

108

109

110

111

Carried To Section Summary

R

Section No. 3
 Bill No. 11
 Plumbing And Drainage

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>NEW BUILDINGS</u> <u>BILL NO. 13</u> <u>PAINTWORK</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Painting specification:</u> <p>All painting shall be done in accordance with SABS specifications unless otherwise described</p> <u>Colours:</u> <p>Unless otherwise described, all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SABS 1091</p> <p>When staining timber, the resultant colour or shade must be to the complete satisfaction of the Principal Agent before any overcoating or preservative is applied</p> <u>Prepare surfaces and remove all loose material, apply one coat plaster primer and two coats super acrylic:</u> <p>All painting shall be done in accordance with SABS specifications unless otherwise described</p> <u>ON NEW INTERNAL FLOATED PLASTER SURFACES</u> <u>Prepare surfaces and remove all loose material, apply one coat plaster primer and two coats super acrylic:</u>				
1	m ²	76		
2	m ²	1		
<u>ON NEW EXTERNAL FLOATED PLASTER SURFACES</u>				
3	m ²	11		
4	m ²	1		
Carried to Collection			R	
Section No. 3				
Bill No. 13				
Paintwork				

		Unit	Quantity	Rate	Amount
<u>ON FIBRE-CEMENT BOARD SURFACES</u>					
<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use:</u>					
5	Fascias and barge boards, including priming metal jointing strips.	m ²	6		
<u>ON GYPSUM BOARD SURFACES</u>					
<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use:</u>					
6	Ceilings and cornices, including priming metal cover strips and nailheads.	m ²	21		
<u>ON METAL SURFACES</u>					
<u>One coat alkyd based zinc chromate primer and two coats gloss enamel paint, on steel:</u>					
7	Door frames.	m ²	3		
<u>ON WOOD SURFACES</u>					
<u>Three coats exterior quality penetrating wood preservative:</u>					
8	Roof timbers at eaves and verges.	m ²	5		
<u>Two coats 'Woodoc' or equal approved on fine smooth surfaces applied prior to installation. Allow 16hrs drying time between coats:</u>					
9	Internal doors.	m ²	16		
<u>Two coats 'Woodoc' or equal approved on fine smooth surfaces applied prior to installation. Allow 16hrs drying time between coats:</u>					
10	External doors.	m ²	3		
Carried to Collection					R
Section No. 3					
Bill No. 13					
Paintwork					

115

BILL NO. 13
PAINTWORK
COLLECTION

Amount

Page No

Brought Forward from Page

114

115

Carried To Section Summary

R

Section No. 3
Bill No. 13
Paintwork

SECTION SUMMARY

Page

R

Section No. 3
SECTION SUMMARY

SECTION NO. 4
EXTERNAL WORK

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u> <u>EXTERNAL WORK</u> <u>BILL NO. 1</u> <u>STORMWATER DRAINAGE</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <u>SUPPLEMENTARY PREAMBLES</u> <p>Supplementary Preambles from relevant trades/Bills in this tender document are applicable to items in this section.</p> <u>Reference to drawings and details:</u> <p>Where drawings and/ or details have been referred to in the description of items the Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained.</p> <u>EARTHWORKS</u> <u>Excavation not exceeding 2 000mm deep:</u>				
1	Trenches and holes.	m ³	365	
<u>Surplus material from excavations or stock piles on site, to a dumping site to be located by the contractor:</u>				
2	Off site to a dumping site to be located by the Contractor.	m ³	365	
<u>FILLING, ETC</u> <u>Filling with approved G7 material supplied and carted onto site by the Contractor, compacted in 150mm layers to a minimum density of 93% Mod. AASHTO maximum density:</u>				
3	Under stormwater channels	m ³	122	
<u>Filling with approved G5 material supplied and carted onto site by the Contractor, compacted in 150mm layers to a minimum density of 93% Mod. AASHTO maximum density:</u>				
4	Under stormwater channels	m ³	122	
Carried to Collection			R	
Section No. 4				
Bill No. 1				
Stormwater Drainage				
119				

	Unit	Quantity	Rate	Amount
<u>Compaction of surfaces:</u>				
5	Compaction of ground under channels, including scarifying for depth of 150mm, breaking down oversize material, adding suitable material where necessary and compact to 93% MOD ASSHTO density.	m²	810	
<u>STORMWATER CHANNELS</u>				
<u>In-situ concrete 25Mpa/19 stone open stormwater channels having V shaped waterway formed in top, finished smooth on all exposed surfaces in (3:1) untinted cement plaster trowelled smooth and with angles rounded and, cast in suitable lengths, including all formwork, moulds, shallow excavation, 150mm selected gravel filling compacted to 95% Mod AASHTO density and ramming, laying to falls, forming construction joints at maximum 3m, bedding and pointing in (3:1) cement mortar:</u>				
6	Channel size 900mm wide x 150mm thick with 75 mm deep "V"-channel waterway.	m	108	
7	Extra over for angle.	No	8	
<u>In-situ concrete 25Mpa/19 stone open stormwater channels having V shaped waterway formed in top, finished smooth on all exposed surfaces in (3:1) untinted cement plaster trowelled smooth and with angles rounded and, cast in suitable lengths, including all formwork, moulds, shallow excavation, 150mm selected gravel filling compacted to 95% Mod AASHTO density and ramming, laying to falls, forming construction joints at maximum 3m, bedding and pointing in (3:1) cement mortar:</u>				
8	Channel size 1500mm wide x 150mm thick with 75 mm deep "V"-channel waterway.	m	432	
9	Extra over for angle.	No	32	
<u>SPREADERS, ETC.</u>				
<u>20Mpa/19mm Concrete:</u>				
10	Triangular water spreader as channel outlet 2000mm wide x 1 240mm long x 150mm thick including 150 x 150mm raised edges and ten 150mm x 150mm x 150mm energy dispersing concrete bricks set in concrete and slightly protruding to follow the general shape of the spreader.	No	12	
Carried to Collection				R
Section No. 4				
Bill No. 1				
Stormwater Drainage				

120

	Unit	Quantity	Rate	Amount
<u>MESH REINFORCEMENT</u>				
<u>Fabric Reinforcement:</u>				
11	Type 193 fabric reinforcement in V- Channels, etc.	m²	810	
<u>JOINT SEALANTS, ETC.</u>				
<u>Joint forming material in movement joints:</u>				
12	10mm Bitumen impregnated fibre board vertically between concrete surfaces.	m²	43	
<u>Two-part polysulphide sealing compound including backing cord, bond breaker, primer, etc:</u>				
13	10 x 20mm In expansion joints in channels including raking out expansion joint filler as necessary.	m	216	
<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>				
14	Under 900mm wide channels.	m²	97	
15	Under 1500mm wide channels.	m²	648	
<u>HEADWALLS, ETC.</u>				
<u>Stormwater channel outlets:</u>				
16	Irregular shaped headwall as channel outlet size 3160mm wide x 1050mm long x 895mm high formed of 220mm brickwall resting on a reinforced concrete slab overall size 3760mm x 1050mm x 225mm thick, including 300mm diameter encased stormwater pipe elsewhere and 220mm brick on edge to follow general shape of headwall and brickwork plastered on all exposed surfaces.	No	1	
<u>STORMWATER MATTRESS</u>				
<u>Stormwater Reno Mattress:</u>				
17	Reno mattress stormwater erosion protection size 4000mm length x 1000mm wide x 300mm deep, as per engineers specification.	No	1	
Carried to Collection				R
Section No. 4				
Bill No. 1				
Stormwater Drainage				

121

BILL NO. 1

STORMWATER DRAINAGE

COLLECTION

Amount

Page No

Brought Forward from Page

119

120

121

Carried To Section Summary

R

Section No. 4

Bill No. 1

Stormwater Drainage

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u> <u>EXTERNAL WORK</u> <u>BILL NO. 2</u> <u>WALKWAYS, ETC.</u> <u>PREAMBLES</u> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p>SUPPLEMENTARY PREAMBLES</p> <p>Supplementary Preambles from relevant trades/Bills in this tender document are applicable to items in this section.</p> <p><u>Reference to drawings and details:</u></p> <p>Where drawings and/ or details have been referred to in the description of items the Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained.</p> <p>Where drawings and/ or details have been referred to in the description of items the Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained.</p> <p><u>EARTHWORKS</u></p> <p><u>Excavation not exceeding 2 000mm deep:</u></p>				
1	Trenches and holes.	m ³	122	
2	Trenches and holes for thickening under surface beds.	m ³	8	
<u>Surplus material from excavations and stock piles on site, to a dumping site to be located by the contractor:</u>				
3	Off site to a dumping site to be located by the Contractor.	m ³	130	
<u>Keeping excavations free of water:</u>				
4	Keeping excavations free of all water other than subterranean water.	Item		
Carried to Collection			R	
Section No. 4				
Bill No. 2				
Walkways, Etc.				
123				

		Unit	Quantity	Rate	Amount
	<u>EARTH FILLING, ETC.</u>				
	<u>Filling with approved 150mm G4 material, stabilised with 3% cement, supplied and carted onto site by the contractor, compacted to a density of at least 95% Mod. AASHTO maximum density:</u>				
5	Under walkways, ramps, e.t.c.	m ³	41		
	<u>Filling with approved 150mm G7 material supplied and carted onto site by the Contractor, compacted to a density of at least 95% Mod. AASHTO maximum density:</u>				
6	Under walkways, ramps, e.t.c.	m ³	41		
	<u>Surface Preparation:</u>				
7	Trim and level off surface of ground (excavated or filled under this Contract or any other contract) to receive concrete surfaces beds, including excavating or filling, ripping and scarifying as necessary and compacting the whole area for a depth of 150mm to a density of at least 95% Mod.AASHTO maximum density.	m ²	270		
	<u>CONCRETE</u>				
	<u>Reinforced 25Mpa/19mm Concrete:</u>				
8	Under walkways, ramps, e.t.c.	m ³	41		
9	Thickening under surface bed.	m ³	8		
	<u>Finishing to surfaces of concrete smooth with a wood float:</u>				
10	To walkways, ramps, e.t.c.	m ²	270		
	<u>FORMWORK</u>				
	<u>Smooth Formwork (Degree of Accuracy II):</u>				
11	Edges, risers, ends and reveals not exceeding 300mm high.	m	360		
	<u>MOVEMENT JOINTS, ETC.</u>				
	<u>Construction joints:</u>				
12	8 x 12mm Saw-cut joints in top of concrete.	m	135		
	<u>REINFORCEMENT</u>				
	<u>Fabric Reinforcement:</u>				
13	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m ²	270		
Carried to Collection				R	
Section No. 4					
Bill No. 2					
Walkways, Etc.					

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BILL NO. 2
WALKWAYS, ETC.
COLLECTION

Amount

Page No

Brought Forward from Page

123

124

125

Carried To Section Summary

R

Section No. 4
 Bill No. 2
 Walkways, Etc.

		Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u>					
<u>EXTERNAL WORK</u>					
<u>BILL NO. 3</u>					
<u>FENCING</u>					
The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines					
<u>SUPPLEMENTARY PREAMBLES</u>					
Supplementary Preambles from relevant trades/Bills in this tender document are applicable to items in this section.					
<u>Reference to drawings and details:</u>					
Where drawings and/ or details have been referred to in the description of items the Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained.					
Supplementary Preambles from relevant trades/Bills in this tender document are applicable to items in this section.					
<u>EXCAVATION, ETC.</u>					
<u>Excavation in earth not exceeding 2000mm deep:</u>					
1	Holes for bases.	m ³	21		
<u>Extra over excavation in earth for excavation in:</u>					
2	Soft rock.	m ³	2		
3	Hard rock.	m ³	1		
<u>Extra over all excavations for carting away:</u>					
4	Surplus material from excavations or stock piles on site, to a dumping site to be located by the contractor.	m ³	21		
<u>Keeping excavations free of water:</u>					
5	Keeping excavations free of all water other than subterranean water.	Item			
<u>Risk of collapse of excavations, other than bulk:</u>					
6	Sides of trench and hole excavations not exceeding 1500mm deep.	m ²	186		
				R	
Carried to Collection					
Section No. 4					
Bill No. 3					
Fencing					
127					

		Unit	Quantity	Rate	Amount
	<u>Soil insecticide in accordance with SANS 5859:</u>				
7	To bottoms and sides of trenches, ground beams, etc.	m ²	232		
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>20MPa/19mm concrete:</u>				
8	450mm x 450mm x 300mm Deep bases.	m ³	14		
	<u>FENCING (Stork Fence)</u>				
9	1800mm high Diamond wire mesh including 1800mm high intermediate posts and stay poles, droppers, straining wires, diamond mesh, etc. 50mm diameter galvanised frame with 50mm mesh and 450mm x 450mm x 600mm deep concrete footing installed complete, and excavations for poles, holes etc. and, all complete as per architects specifications.	m	548		
	<u>'Class A' Galvanised Fencing Post, Etc.:</u>				
10	100mm Diameter x 2.5mm galvanised steel intermediate fencing post 2800mm long, with pressed steel mushroom cap and 150mm x 150mm x 3mm baseplate at bottom, including embedding bottom end in 450mm x 450mm x 600mm mass concrete (20MPa) bases projecting 50mm above ground with splayed canners all round. (bases elsewhere)	No	228		
11	50mm Diameter x 2.5mm galvanised raking strut 2400mm long, with 150mm x 150mm x 3mm base plate at bottom end and with top end fattened and bolted through post, including embedding bottom end in 450mm x 780mm x 600mm deep mass concrete (20MPa) base projecting 50mm above ground with splayed canners all round (bases elsewhere)	No	68		
12	100mm Diameter x 2.5mm galvanised steel, corner and gate post 2800mm long, with pressed steel mushroom cap and 150mm x 150mm x 3mm base plate at bottom, including embedding bottom end in 450mm x 450mm x 600mm mass concrete (20MPa) bases projecting 50mm above ground with splayed conners all round (bases elsewhere)	No	8		
13	8mm Diameter x 100mm long galvanised mild steel bolts, including nut, washers and forming holes through post.	No	540		
14	12mm Diameter x 110mm long galvanised mild steel straining eye bolts, including nut, washers and forming holes through post.	No	384		
	Carried to Collection			R	
	Section No. 4				
	Bill No. 3				
	Fencing				
	128				

		Unit	Quantity	Rate	Amount
	<u>'Class A' Galvanised Gates:</u>				
15	Single leaf steel gate size 1000mm wide x 1800mm high overall, formed of 50mm diameter x 2.5mm parameter framing and one diagonal brace, all scribed and welded at corners and intersections, covered with weldmesh, straining wires all as per fencing, including fitting with 30mm diameter x 300mm girth u-shaped cleats and three 24mm diameter x 300mm long eyebolt hinges bolted and welded to adjoining 100mm diameter gate post (elsewhere measured), including 500mm long heavy duty chain spot welded to gate and Union padlock.	No	2		
16	Double leaf steel gate size 2800mm wide x 1800mm high overall, formed of 50mm diameter x 2.5mm parameter framing and one diagonal brace, all scribed and welded at corners and intersections, covered with weldmesh, straining wires all as per fencing, including fitting with 30mm diameter x 300mm girth u-shaped cleats and three 24mm diameter x 300mm long eyebolt hinges bolted and welded to adjoining 100mm diameter gate post (elsewhere measured), including 500mm long heavy duty chain spot welded to gate and Union padlock.	No	1		
Carried to Collection				R	
Section No. 4					
Bill No. 3					
Fencing					
129					

BILL NO. 3
FENCING
COLLECTION

Amount

Page No

Brought Forward from Page

127

128

129

Carried To Section Summary

R

Section No. 4
Bill No. 3
Fencing

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u> <u>EXTERNAL WORK</u> <u>BILL NO. 4</u> <u>PRE-FABRICATED CLASSROOMS</u> The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines <u>SUPPLEMENTARY PREAMBLES</u> <u>Reference to drawings and details:</u> Where drawings and/ or details have been referred to in the description of items the Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained. <u>Materials:</u> <u>The Bidder must take cognisance of the fact that these temporary structures are to be constructed with NEW and not USED materials, or material from demolitions.</u> <u>Pricing of temporary structures:</u> Rates for the construction of temporary structures should include the cost of demolition of the structures upon instruction. <u>SITE CLEARANCE ETC</u> 1 Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc. and trees not exceeding 200mm girth 2 Stripping average 200mm thick layer of top soil and depositing material in prescribed stock piles on site and/or carting away to dump site selected by contractor <u>EXCAVATION, ETC.</u> <u>Excavation in earth not exceeding 2m deep to reduced levels</u> 3 Over site to form platforms <u>Extra over all excavations for carting away:</u> 4 Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor Carried to Collection Section No. 4 Bill No. 4 Pre-fabricated Classrooms				
	m ²	310		
	m ²	310		
	m ³	140		
	m ³	140		
			R	

	Unit	Quantity	Rate	Amount
<u>KEEPING EXCAVATION FREE OF WATER</u>				
<u>Keeping excavations free of water:</u>				
5	Keeping excavations free of all water other than subterranean water	Item		
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 96% Mod AASHTO density:</u>				
6	Over site to form platforms	m³	47	
<u>EARTH FILLING, ETC.</u>				
<u>Filling with approved G7 material supplied and carted onto site by the Contractor, compacted in 150mm layers to a minimum density of 93% Mod. AASHTO maximum density:</u>				
7	Over site in platforms	m³	47	
<u>Filling with approved G5 material supplied and carted onto site by the Contractor, compacted in 150mm layers to a minimum density of 93% Mod. AASHTO maximum density:</u>				
8	Over site in platforms	m³	47	
<u>TEMPORARY CLASSROOMS</u>				
<u>Modular Prefabricated Temporary Buildings.</u>				
9	5 x Classroom Block size 35 000mm x 7 000mm x 2 700mm high, constructed of minimum 75mm insulated wall panels complete with 0.56mm Corrugated roof sheeting with "Factorylite' white bubble foil insulation or similar, PVC gutters and (4x) down pipes with shoes, adjustable jacks where required compacted filling, insulated panel doors, door frames, aluminium windows, ironmongery, vinyl floor sheeting, chalk boards, pinning boards, electrical Installation, light fittings, plug points, lighting protection and prepare to make ready for use, all inclusive as per the Architects drawing attached at the back of these Bills of Quantities.	No	1	
Carried to Collection				R
Section No. 4				
Bill No. 4				
Pre-fabricated Classrooms				

BILL NO. 4

PRE-FABRICATED CLASSROOMS

COLLECTION

Amount

Page No

Brought Forward from Page

131

132

Carried To Section Summary

R

Section No. 4

Bill No. 4

Pre-fabricated Classrooms

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u> <u>EXTERNAL WORK</u> <u>BILL NO. 5</u> <u>RAINWATER TANKS AND STANDS</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines <u>TANK STAND, RAINWATER TANKS, E.T.C.</u> <u>EXCAVATIONS</u> <u>Site clearance:</u> 1 Allow for clearing site including removing trees, shrubs etc. not exceeding 200mm girth, grubbing up roots and roughly levelling. <u>Excavations in earth not exceeding 2000mm deep in :</u> 2 Trenches 3 Reduced levels under floors. <u>Extra over trench and hole excavations in earth for excavation in:</u> 4 Soft rock 5 Hard rock <u>Extra over all excavations for carting away:</u> 6 Surplus material from excavations or stock piles on site to a dumping site to be located by the contractor. <u>Risk of collapse of excavations:</u> 7 Sides of trench and hole excavations not exceeding 1 500mm deep. <u>Keeping excavations free of water:</u> 8 Keeping excavations free of all water other than subterranean water				
	m ²	100		
	m ³	70		
	m ³	14		
	m ³	8		
	m ³	4		
	m ³	53		
	m ²	294		
	Item			
Carried to Collection			R	
Section No. 4				
Bill No. 5				
Rainwater Tanks And Stands				

	Unit	Quantity	Rate	Amount
<u>TANKS ETC.</u>				
<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	m³	32		
<u>Backfilling to trenches, holes, etc.</u>				
<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	m³	70		
<u>Under concrete platforms</u>				
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>10MPa/19mm Concrete:</u>				
11	m³	5		
<u>Surface blinding</u>				
<u>25MPa/19mm Concrete:</u>				
12	m³	28		
<u>In footings cast against excavated surfaces</u>				
<u>REINFORCED CONCRETE</u>				
<u>25Mpa/19mm Concrete:</u>				
13	m³	7		
<u>Concrete to form tank stand platform</u>				
<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
14	m²	93		
<u>Concrete platforms</u>				
<u>Smooth formwork (Degree of Accuracy II):</u>				
15	m	155		
<u>Edge, risers, ends and reveals not exceeding 300mm high</u>				
<u>REINFORCEMENT</u>				
<u>Fabric reinforcement:</u>				
16	m²	93		
<u>High tensile steel ref 395 mesh in concrete surface beds, slabs, etc.</u>				
<u>MASONRY</u>				
<u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u>				
<u>Brickwork in Class II mortar:</u>				
17	m²	108		
<u>220mm Walls</u>				
			R	
Carried to Collection				
Section No. 4				
Bill No. 5				
Rainwater Tanks And Stands				

135

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BILL NO. 5

RAINWATER TANKS AND STANDS

COLLECTION

Amount

Page No

Brought Forward from Page

134

135

136

137

Carried To Section Summary

R

Section No. 4

Bill No. 5

Rainwater Tanks And Stands

SECTION SUMMARY

Page

R

Section No. 4

SECTION SUMMARY

SECTION NO. 5
PROVISIONAL SUMS

	Unit	Quantity	Rate	Amount
<p><u>SECTION NO. 5</u></p> <p><u>PROVISIONAL SUMS</u></p> <p><u>BILL NO. 1</u></p> <p><u>PROVISIONAL SUM</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are obtainable from Public Works website www.publicworks.gov.za/consultantsguidelines</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>General:</u></p> <p>Unless otherwise described, all prime cost amounts and provisional sums shall be nett. No provision for 5 percent cash discount shall be included for the main contractor.</p> <p>Prime cost amounts and provisional sums exclude value added tax.</p> <p>In the event of a prime cost amount or provisional sum being omitted the items "Allow for profit"... and "allow for attendance" applicable, shall be omitted together with the prime cost amount or provisional sum and no claim whatsoever will be entertained in this regard.</p> <p>The principal agent shall be entitled to nominate or select any further specialist and other to execute work or supply and fix any goods whether or not a provisional sum is included in the bills of quantities and such specialists and other will then be deemed to be "selected subcontractors" as the case may be.</p> <p>Where profit stated, the contractor may allow for profit if required</p> <p><u>Attendance upon nominated/selected subcontractors:</u></p> <p>The item "Allow for attendance...." which follows each provisional sum for nominated/selected subcontractors work, shall be deemed to cover all the contractors costs incurred in providing free of charge to the subcontractor the service as set out in the relevant clause in the preliminaries.</p>				
Carried to Collection			R	
Section No. 5				
Bill No. 1				
Provisional Sum				

	Unit	Quantity	Rate	Amount
<p><u>Taking delivery:</u></p> <p>Taking delivery of goods or articles by the contractor on site shall mean getting in, unpacking, checking that the quantity is correct and that the goods are complete and undamaged, submitting a report thereof to the interested parties and issuing vouchers for the receipt of such goods. The contractor is to store the goods and will be held responsible for the safety thereof and indemnify the employer against any damage or loss which may occur.</p> <p><u>Works executed under a seperate/direct contract:</u></p> <p>The contractor shall permit access to the site and to the places where the work is to be carried out and provide every facility to enable the specialist to carry out his work in a workmanlike manner and in proper order and sequence.</p> <p><u>Co-ordination:</u></p> <p>The contractor shall obtain all necessary particulars of the subcontractors work timeously and the contractor will be responsible for the programming and co-ordination of the works</p> <p><u>Number of nominated/selected subcontractors:</u></p> <p>The contractors attention is drawn to the fact that the indicated individual provisional sums may consist of numerous specialist, all of which will become nominated/selected subcontractors. The contractor must therefore allow in his tender for any cost implication this may bring about, as no claims in this regard will be entertained</p> <p><u>Prime Cost:</u></p> <p>Unless otherwise described, all prime cost amounts and provisional sums shall be nett. No provision for 5 percent cash discount shall be included for the main contractor.</p> <p>Prime cost amounts and provisional sums exclude value added tax.</p> <p>In the event of a prime cost amount or provisional sum being omitted the items "Allow for profit"... and "allow for attendance" applicable, shall be omitted together with the prime cost amount or provisional sum and no claim whatsoever will be entertained in this regard.</p> <p>The principal agent shall be entitled to nominate or select any further specialist and other to execute work or supply and fix any goods whether or not a provisional sum is included in the bills of quantities and such specialists and other will then be deemed to be "selected subcontractors" as the case may be.</p>				
Carried to Collection			R	
Section No. 5				
Bill No. 1				
Provisional Sum				

		Unit	Quantity	Rate	Amount
	Where profit stated, the contractor may allow for profit if required.				
	<u>Electrical Installation:</u>				
1	Provide the sum of R 720 000.00 (Seven Hundred and Twenty Thousand Rand) for Electrical Installation for the duration of the contract, to be used at the discretion of the Employer and deducted in whole or in part if not required.	Item			720 000.00
2	Profit.	Item			
3	Allow for general attendance.	Item			
	<u>Approved Asbestos Inspector:</u>				
4	Provide the sum of R 200 000.00 (Two Hundred Thousand Rand) for Approved Asbestos Inspector for the duration of the contract, to be used at the discretion of the Employer and deducted in whole or in part if not required.	Item			200 000.00
5	Profit.	Item			
6	Allow for general attendance.	Item			
	<u>Community Liaison Officer:</u>				
7	Provide the sum of R100 000.00 for Community Liason Officer with stipend of R 1 00000.00 to be employed by the main contractor for the duration of the contract, to be used at the discretion of the Employer and deducted in whole or in part if not required.	Item			100 000.00
8	Profit.	Item			
9	Allow for general attendance.	Item			
	MINIMUM TARGETED ENTERPRISE DEVELOPMENT				
	A provisional amount has been allowed for in the execution of this project as described in C3.1Project Specifications.				
10	The provisional amount allowed is for the appointment of training coordinator, mentor, training service providers and training of the beneficiary enterprises including monitoring and monthly reporting.	PS			221 500.84
11	Allowance for profit all inclusive of associated costs to the contractor for implementation.	%			
12	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%			
	Carried to Collection			R	
	Section No. 5				
	Bill No. 1				
	Provisional Sum				
	143				

BILL NO. 1
PROVISIONAL SUM
COLLECTION

Amount

Page No

Brought Forward from Page

141

142

143

Carried To Section Summary

R

Section No. 5
Bill No. 1
Provisional Sum

Amount

SECTION NO. 5
PROVISIONAL SUMS
SECTION SUMMARY

Bill No.

Page

1 PROVISIONAL SUM

144

Carried to Final Summary

Section No. 5
SECTION SUMMARY

R

Section
No. **FINAL SUMMARY**

Page

1	PRELIMINARIES	17
2	REFURBISHMENTS	70
3	NEW BUILDINGS	117
4	EXTERNAL WORK	139
5	PROVISIONAL SUMS	145

ADD: CONTINGENCIES

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

SubTotal excluding Value Added Tax

ADD VAT @ 15%:

Carried to Tender

R

FINAL SUMMARY