



NOTAS JUNIOR PRIMARY SCHOOL

BILLS OF QUANTITIES AND FINAL SUMMARY
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**DEVELOPMENT BANK OF SOUTHERN AFRICA
LIMITED**

Client: Department of Basic Education (DBE) – Eastern Cape

Implementing Agent: Development Bank of Southern Africa 1258 Lever Road Midrand, Johannesburg Gauteng 1685 Contact: As per Tender Notice and Invitation	Programme Manager: Bonny Duda – Programme Manager 1258 Lever Road Midrand, Johannesburg Gauteng 1685
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SECTION NO. 1
PRELIMINARIES

Amount

SECTION NO. 1**PRELIMINARIES**

The JBCC Series 2000 Preliminaries (May 2005 edition) prepared by the Joint Building Contracts Committee for use with the said JBCC Principal Building Agreement shall be deemed to be incorporated in these bills of quantities

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

These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the above mentioned documents

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

PREAMBLES FOR TRADES

The Model Preambles for Trades (2008 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claim arising from brevity of description of items fully described in the said Model Preambles will be entertained

Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles

The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles

PRICING OF PRELIMINARIES**Pricing of Prelims:**

Should the contractor select Option A in terms of clause 10.3 for the purpose of adjustment of these preliminaries, the amount entered in the amount column in these preliminaries is to be divided into one or more of the three categories provided namely Fixed (F), Value Related (V) and Time Related (T)

SECTION A - PRINCIPAL BUILDING AGREEMENT**Definitions:**

1 Clause 1.0 - Definitions and interpretation

F: V: T:

Item

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R

Section No. 1

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<u>Objective and preparation:</u>			
2	Clause 2.0 - Offer, acceptance and performance F: V: T:	Item	
3	Clause 3.0 - Documents F: V: T:	Item	
4	Clause 4.0 - Design responsibility F: V: T:	Item	
5	Clause 5.0 - Employer's agents F: V: T:	Item	
6	Clause 6.0 - Site representative F: V: T:	Item	
7	Clause 7.0 - Compliance with regulations F: V: T:	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 F: V: T:	Item	
9	Clause 8.0 - Works risk F: V: T:	Item	
10	Clause 9.0 - Indemnities F: V: T:	Item	
11	Clause 10.0 - Works insurances F: V: T:	Item	
12	Clause 11.0 - Liability insurances F: V: T:	Item	
13	Clause 12.0 - Effecting insurances F: V: T:	Item	
14	Clause 13.0 - No clause F: V: T:	Item	
15	Clause 14.0 - Security F: V: T:	Item	
<u>Execution:</u>			
16	Clause 15.0 - Preparation for and execution of the works F: V: T:	Item	
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17	Clause 16.0 - Access to the works F: V: T:	Item	
18	Clause 17.0 - Contract instructions F: V: T:	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 F: V: T:	Item	
20	Clause 19.0 - Assignment F: V: T:	Item	
21	Clause 20.0 - Nominated subcontractors F: V: T:	Item	
22	Clause 21.0 - Selected subcontractors F: V: T:	Item	
23	Clause 22.0 - Employer's direct contractors F: V: T:	Item	
24	Clause 23.0 - Contractor's domestic subcontractors F: V: T:	Item	
	<u>Completion:</u>		
25	Clause 24.0 - Practical completion F: V: T:	Item	
26	Clause 25.0 - Works completion F: V: T:	Item	
27	Clause 26.0 - Final completion F: V: T:	Item	
28	Clause 27.0 - Latent defects liability period F: V: T:	Item	
29	Clause 28.0 - Sectional completion F: V: T:	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) F: V: T:	Item	
31	Clause 30.0 - Penalty for noncompletion F: V: T:	Item	
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		Amount	
<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	
	F: V: T:		
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	
	F: V: T:		
34	Clause 33.0 - Recovery of expense and loss	Item	
	F: V: T:		
35	Clause 34.0 - Final account and final payment	Item	
	F: V: T:		
36	Clause 35.0 - Payment to other parties	Item	
	F: V: T:		
<u>Cancellation:</u>			
37	Clause 36.0 - Cancellation by employer - contractor's default	Item	
	F: V: T:		
38	Clause 37.0 - Cancellation by employer - loss and damage	Item	
	F: V: T:		
39	Clause 38.0 - Cancellation by contractor - employer's default	Item	
	F: V: T:		
40	Clause 39.0 - Cancellation - cessation of the works	Item	
	F: V: T:		
<u>Dispute:</u>			
41	Clause 40.0 - Dispute settlement	Item	
	F: V: T:		
<u>Substitute provisions:</u>			
42	Clause 41.0 - State clauses	Item	
	F: V: T:		
<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	
	F: V: T:		
44	Clause 42.0 - Post-tender information		
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		Amount
	The required post-tender information shall be inserted in the agreement after consultation with the contractor F: V: T:	Item
	<u>SECTION B - PRELIMINARIES</u>	
	<u>Definitions and interpretation:</u>	
45	Clause 1.0 - Definitions and interpretation F: V: T:	Item
	<u>Documents:</u>	
46	Clause 2.1 - Checking of documents F: V: T:	Item
47	Clause 2.2 - Provisional bills of quantities F: V: T:	Item
48	Clause 2.3 - Availability of construction documentation F: V: T:	Item
49	Clause 2.4 - Interests of agents F: V: T:	Item
50	Clause 2.5 - Priced documents F: V: T:	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)" F: V: T:	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 F: V: T:	Item
53	Clause 3.2 - Geotechnical investigation A copy of the geotechnical investigation report is annexed to these bills of quantities F: V: T:	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 F: V: T:	Item
55	Clause 3.4 - Existing premises occupied F: V: T:	Item
56	Clause 3.5 - Previous work - dimensional accuracy F: V: T:	Item
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57	Clause 3.6 - Previous work - defects F: V: T:	Item	
58	Clause 3.7 - Services - known F: V: T:	Item	
59	Clause 3.8 - Services - unknown F: V: T:	Item	
60	Clause 3.9 - Protection of trees F: V: T:	Item	
61	Clause 3.10 - Articles of value F: V: T:	Item	
62	Clause 3.11 - Inspection of adjoining properties F: V: T:	Item	
<u>Management of contract:</u>			
63	Clause 4.1 - Management of the works F: V: T:	Item	
64	Clause 4.2 - Programme for the works F: V: T:	Item	
65	Clause 4.3 - Progress meetings F: V: T:	Item	
66	Clause 4.4 - Technical meetings F: V: T:	Item	
67	Clause 4.5 - Labour and plant records F: V: T:	Item	
<u>Samples, shop drawings and manufacturer's instructions:</u>			
68	Clause 5.1 - Samples of materials F: V: T:	Item	
69	Clause 5.2 - Workmanship samples F: V: T:	Item	
70	Clause 5.3 - Shop drawings F: V: T:	Item	
71	Clause 5.4 - Compliance with manufacturers' instructions F: V: T:	Item	
<u>Temporary works and plant:</u>			
72	Clause 6.1 - Deposits and fees F: V: T:	Item	
73	Clause 6.2 - Enclosure of the works F: V: T:	Item	
74	Clause 6.3 - Advertising F: V: T:	Item	
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75	Clause 6.4 - Plant, equipment, sheds and offices F: V: T:	Item	
76	Clause 6.5 - Main noticeboard F: V: T:	Item	
77	Clause 6.6 - Subcontractors' noticeboard F: V: T:	Item	
<u>Temporary services:</u>			
78	Clause 7.1 - Location F: V: T:	Item	
79	Clause 7.2 - Water F: V: T:	Item	
80	Clause 7.3 - Electricity F: V: T:	Item	
81	Clause 7.4 - Telecommunication facilities F: V: T:	Item	
82	Clause 7.5 - Ablution facilities F: V: T:	Item	
<u>Prime cost amounts:</u>			
83	Clause 8.1 - Responsibility for prime cost amounts F: V: T:	Item	
<u>Attendance on nominated/selected subcontractors:</u>			
84	Clause 9.1 - General attendance F: V: T:	Item	
85	Clause 9.2 - Special attendance F: V: T:	Item	
86	Clause 9.3 - Commissioning - fuel, water and electricity F: V: T:	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) F: V: T:	Item	
88	Clause 10.2 - Payment of preliminaries F: V: T:	Item	
89	Clause 10.3 - Adjustment of preliminaries F: V: T:	Item	
90	Clause 10.4 - Payment certificate cash flow F: V: T:	Item	
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<u>General:</u>			
91	Clause 11.1 - Protection of the works F: V: T:	Item	
92	Clause 11.2 - Protection/isolation of existing/sectionally occupied works F: V: T:	Item	
93	Clause 11.3 - Security of the works F: V: T:	Item	
94	Clause 11.4 - Notice before covering work F: V: T:	Item	
95	Clause 11.5 - Disturbance F: V: T:	Item	
96	Clause 11.6 - Environmental disturbance F: V: T:	Item	
97	Clause 11.7 - Works cleaning and clearing F: V: T:	Item	
98	Clause 11.8 - Vermin F: V: T:	Item	
99	Clause 11.9 - Overhand work F: V: T:	Item	
100	Clause 11.10 - Instruction manuals and guarantees F: V: T:	Item	
101	Clause 11.11 - As built information F: V: T:	Item	
102	Clause 11.12 - Tenant installations F: V: T:	Item	
<u>Schedule of variables:</u>			
103	12.1 - Pre-tender information Information necessary for elections and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that either specific requirements are not required or that the clause is not relevant to this specific contract F: V: T:	Item	
104	12.1.1 - Provisional bills of quantities [clause 2.2] The quantities are provisional - YES F: V: T:	Item	
105	12.1.2 - Availability of construction documentation [clause 2.3] Construction documentation is complete - YES F: V: T:	Item	
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106	12.1.3 - Interests of agents [clause 2.4] - NONE F: V: T:	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 F: V: T:	Item	
108	12.1.5 - Geotechnical investigation [clause 3.2] - YES A Geotechnical Investigation Report is included in this document F: V: T:	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 F: V: T:	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 F: V: T:	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 F: V: T:	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 F: V: T:	Item	
113	12.1.10 - Protection of trees [clause 3.9] Only those trees and shrubs indicated as such on the drawings shall be removed or cut back. The remainder of the trees and shrubs shall be left undamaged F: V: T:	Item	
114	12.1.11 - Inspection of adjoining properties [clause 3.11] F: V: T:	Item	
115	12.1.11 - Inspection of adjoining properties [clause 3.11]		
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	The contractor shall make his own arrangements with the owners of adjoining properties in order to execute the works	Item
	F: V: T:	
116	12.1.12 - Enclosure of the works [clause 6.2]	
	The contractor shall erect, maintain and remove on completion, hoardings with gantris, 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
	F: V: T:	
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
	F: V: T:	
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
	F: V: T:	
119	12.1.15 - Subcontractors' noticeboard [clause 6.6]	
	A noticeboard is required - NO	Item
	F: V: T:	
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
	F: V: T:	
121	12.1.17 - Electricity [clause 7.3]	
	Option A (by contractor) NO	
	Option B (by employer - free of charge) NO	
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	Option C (by employer - metered) YES	Item	
	F: V: T:		
122	12.1.18 - Telecommunications [clause 7.4]		
	Telephone YES		
	Facsimile NO		
	E-mail NO	Item	
	F: V: T:		
123	12.1.19 - Ablution facilities [clause 7.5]		
	Option A (by contractor) YES		
	Option B (by employer - free of charge) NO	Item	
	F: V: T:		
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	
	F: V: T:		
125	12.1.21 - Special attendance [clause 9.2] - NO	Item	
	F: V: T:		
126	12.1.22 - Protection of the works [clause 11.1] - YES	Item	
	F: V: T:		
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	
	F: V: T:		
128	12.1.24 - Environmental disturbance [clause 11.6] - NO	Item	
	F: V: T:		
129	12.2 - Post-tender information		
	The required post-tender information shall be inserted in the preliminaries after consultation with the contractor	Item	
	F: V: T:		
	<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		
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131	The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent F: V: T: 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 F: V: T:	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 F: V: T:	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 F: V: T:	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 F: V: T:	Item
135	OVERTIME	
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	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
	F: V: T:	
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
	F: V: T:	
137	WARRANTIES FOR MATERIALS AND WORKMANSHIP	
	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
	F: V: T:	
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
	F: V: T:	
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
	F: V: T:	
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
	F: V: T:	
141	TESTING OF FLAT ROOF WATERPROOFING FOR WATERTIGHTNESS	
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	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 F: V: T:	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 F: V: T:	Item
143	AUTHORISATION FOR THE TAKING OF PHOTOGRAPHS The contractor shall obtain <u>prior</u> 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. F: V: T:	Item
144	HIV/AIDS AWARENESS It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under the two items below hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of Clause A 31 of "Section 1: Preliminaries (Section A)" or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment F: V: T:	Item
145	AWARENESS CHAMPION Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification F: V: T:	Item
146	AWARENESS WORKSHOPS	
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	Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification F: V: T:	Item
147	POSTERS, BOOKLETS, VIDEOS, ETC. Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification F: V: T:	Item
148	ACCESS TO CONDOMS Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification F: V: T:	Item
149	MONITORING Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification F: V: T:	Item
150	OCCUPATIONAL HEALTH AND SAFETY ACT 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). 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. 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.	
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		Amount
151	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. F: V: T: REPORTING BY CONTRACTOR 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 F: V: T:	Item
152	PLANT RECORDS At the end of each month the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works F: V: T:	Item
153	CO-OPERATION OF CONTRACTOR FOR COST MANAGEMENT It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The principal agent undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor shall attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures, as necessary, to all subcontractors F: V: T:	Item
154	LOCAL LABOUR Allow for monthly submission of proof of employment of local skilled and unskilled labour to the principal agent. It is a general requirement of this contract that persons normally resident in the locality of the works (local labour) be given preference for employment on the contract. Should adequate and appropriate labour not be available within the locality, other labour may be subject to satisfactory proof being provided that every reasonable endeavour has been made to employ local labour. The contractor shall identify the local community leaders with the purpose of negotiating with them regarding the utilisation of local labour in the construction process. The contractor shall furthermore give preference, wherever possible to the employment of single heads of households, women and youth. The contractor shall, in general, maximise the involvement of the local community.	
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		Amount
155	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. F: V: T: LOCAL BUILDING MATERIALS Preference shall be given to the supply of materials produced or manufactured in the Eastern Cape Province provided that: a) Such materials comply in all respects with the specific requirements of PW371 specification b) The availability of such materials shall not adversely affect the desired progress of the specific works c) The use of such materials shall not constitute grounds for any claim for increased cost in respect thereof F: V: T:	Item
156	DISPOSAL SITE-SOLID WASTE/ENVIRONMENTALLY SENSITIVE MATERIALS 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 F: V: T:	Item
157	COMMUNITY LIAISON OFFICER The contractor shall employ a Community Liaison Officer (CLO) for the full duration of the contract. The duties of the CLO, remuneration and conditions of employment shall be in accordance with the "Agreement of Temporary Employment as CLO" to be agreed with the employer. It is the contractor's responsibility to price for the employment of the CLO for the full duration of the construction period. No claim for underpricing or non-pricing of this item by the contractor will be entertained F: V: T:	Item
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SECTION NO. 1

PRELIMINARIES

SECTION SUMMARY

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Section No. 1

SECTION SUMMARY

SECTION NO. 2
BUILDING WORKS

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 1</u> <u>ALTERATIONS</u> <u>PREAMBLES</u> 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. <u>SUPPLEMENTARY PREAMBLES</u> The Standard Preambles and Notes in the various trade bills are too and do apply equally to this section <u>View site:</u> 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 <u>Explosives:</u> No explosives whatsoever may be used for demolition purposes unless otherwise stated <u>General:</u> 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 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				
Section No. 2				
Bill No. 1				
Alterations				
Carried to Collection			R	

	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 rehangng, cramping up, re-wedging as required and making good cramps, dowels, etc., and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately 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 long 100mm diameter gum poles embedded 400mm into ground and 2.5m centres with timber purlins horizontal at 600mm centres to form a frame nailed upon gum poles with 70% shade net including excavating, backfilling, compacting, etc., complete including maintenance, re-use and removal thereof on completion.	m	130		
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Section No. 2				
Bill No. 1				
Alterations				

		Unit	Quantity	Rate	Amount
<u>DEMOLITIONS ETC</u>					
<u>The contractor should inspect all existing buildings to be demolished, and price for removing the entire building including slabs, pit and removing sewage from pits prior to demolition and filling pit with G5 material or similar to 98% Mod Density in layers not exceeding 200mm etc. No claims will be considered in this regard, including carting away rubble off site to dump site selected by the contractor:</u>					
2	Single storey 57m2 TOILET BLOCK, comprising unreinforced concrete surface bed, metal windows and timber doors and frames and corrugated iron roof covering on timber trusses, and including all foundations	No	1		
<u>REMOVAL OF EXISTING WORK</u>					
<u>Taking out and relocating existing wire fence (e/m) including posts, etc. including making good any defect sections of fence:</u>					
3	Mesh fence	m	25		
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Alterations					

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ALTERATIONS
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Bill No. 1
Alterations

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<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 2</u> <u>EARTHWORKS</u> <u>PREAMBLES</u> 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. <u>SUPPLEMENTARY PREAMBLES</u> <u>Nature of ground:</u> 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' <u>Subterranean water:</u> No subterranean water is expected <u>Excavation for working space in rock:</u> 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 <u>Carting away of excavated material:</u> 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 <u>Filling:</u> Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material <u>Testing:</u> Prices for filling are to include for all necessary density tests in accordance with SABS 1200D				
Carried to Collection			R	
Section No. 2				
Bill No. 2				
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	260		
2	Stripping average 150mm thick layer of top soil and depositing material in prescribed stock piles on site	m ²	260		
	<u>KEEPING EXCAVATION FREE OF WATER</u>				
	<u>Keeping excavations free of water:</u>				
3	Keeping excavations free of all water other than subterranean water	Item			
	<u>EXCAVATION OTHER THAN BULK, ETC.</u>				
	<u>Excavation in earth not exceeding 2m deep:</u>				
4	Trenches	m ³	24		
5	Toilets pits	m ³	179		
	<u>Extra over trench and hole excavations in earth for excavation in:</u>				
6	Soft Rock	m ³	11		
7	Hard rock	m ³	7		
	<u>Extra over all excavations for carting away:</u>				
8	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m ³	220		
	<u>Keeping excavations free of water:</u>				
9	Keeping excavations free of all water other than subterranean water	Item			
	<u>Risk of collapse of excavations, other than bulk:</u>				
10	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	82		
11	Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 2m deep	m ²	170		
	<u>FILLING ETC. OTHER THAN BULK</u>				
	<u>G5 filling supplied by the contractor, compacted to 95% Mod AASHTO density:</u>				
12	Under floors, steps, pavings, etc.	m ³	12		
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Earthworks

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 3</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>PREAMBLES</u> 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. <u>SUPPLEMENTARY PREAMBLES</u> <u>Cost of tests:</u> The costs of making, storing and testing of concrete test cubes as required under clause 7 Tests of 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) <u>Formwork:</u> Descriptions of formwork shall be deemed to include use and waste only (except where described as 'left in' or 'permanent'), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself Formwork to soffits of solid slabs etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described <u>UNREINFORCED CONCRETE</u> <u>10MPa/19mm concrete:</u>				
1	m³	1		
			R	
Carried to Collection				
Section No. 2 Bill No. 3 Concrete, Formwork And Reinforcement				

		Unit	Quantity	Rate	Amount
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>10MPa/19mm concrete:</u>				
2	Surface blinding in cast in toilet pits	m ³	4		
3	Surface blinding in trenches	m ³	2		
	<u>REINFORCED CONCRETE</u>				
	<u>25MPa/19mm concrete:</u>				
4	Strip footings	m ³	14		
5	Surface beds cast in pit toilets	m ³	24		
6	Surface beds on waterproofing.	m ³	4		
	<u>TEST CUBES</u>				
	<u>Test cubes:</u>				
7	Making and testing set of three 150 x 150 x 150mm concrete strength test cube (Provisional)	Sets	8		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a power float:</u>				
8	Surface beds, slabs, etc.	m ²	80		
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II) (CPAP WORK GROUP NO. 111)</u>				
	<u>Rough formwork to sides:</u>				
9	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	75		
	<u>Boxing out rough formwork to form:</u>				
10	170mm Thick opening	m	24		
	<u>PERMANENT FORMWORK</u>				
	<u>Decking for slabs with ends laid on brick walls:</u>				
11	Soffits propped up to heights exceeding 1.5m high but not exceeding 3.5m high to slabs over pits	m ²	64		
	<u>MOVEMENT JOINTS ETC</u>				
	<u>10mm wide 'JOINTEX' closed cell polyurethane with 10 x 10 tear strip in isolation joints between horizontal concrete and brick surfaces including cement mortar bed:</u>				
12	Not exceeding 300mm wide	m	77		
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	Concrete, Formwork And Reinforcement				

		Unit	Quantity	Rate	Amount
	<u>Saw-cut joints:</u>				
13	8 x 12mm Saw-cut joints in top of concrete	m	87		
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>Mild steel reinforcement to structural concrete work:</u>				
14	Various diameter bars	Tonnes	1.34		
	<u>High tensile steel reinforcement to structural concrete work:</u>				
15	Various diameter bars	Tonnes	0.93		
	<u>Fabric reinforcement:</u>				
16	Type 193 fabric reinforcement filled in pit walls etc.	m ²	137		
17	Type 193 fabric reinforcement in concrete surface beds etc.	m ²	158		
18	Type 245 fabric reinforcement in concrete surface beds etc.	m ²	326		
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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 4</u> <u>MASONRY</u> <u>PREAMBLES</u> 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. <u>SUPPLEMENTARY PREAMBLES</u> <u>BRICKWORK</u> <u>Sizes in descriptions:</u> Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick <u>Hollow walls:</u> Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole <u>Bagged and sealed walls:</u> 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 <u>Face bricks:</u> Bricks shall be ordered timeously to obtain uniformity in size and colour <u>Pointing:</u> Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc. <u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u> <u>Brickwork of NFP bricks in class II mortar:</u>				
1	230mm Brick wall in toilet pit lining	m ²	40	
2	230mm Brick wall in trenches	m ²	28	
3	320mm Brick wall in toilet pit lining	m ²	139	
Carried to Collection			R	
Section No. 2 Bill No. 4 Masonry				

		Unit	Quantity	Rate	Amount
<u>BRICKWORK IN SUPERSTRUCTURE</u>					
<u>Brickwork of NFP bricks in class II mortar:</u>					
4	Half brick walls	m ²	76		
5	Half brick walls in beamfilling	m ²	21		
6	One brick walls, internal skin to be back washed and painted with bitumen	m ²	369		
<u>BRICKWORK SUNDRIES</u>					
<u>Brickwork Sundries:</u>					
7	Splayed mortar fillet maximum one course high between beamfilling and roof sheeting	m	85		
8	100 mm Thick concrete filling in cavity walls	m ²	139		
<u>2,5mm Brickwork reinforcement:</u>					
9	75mm Wide reinforcement built in horizontally	m	218		
10	150mm Wide reinforcement built in horizontally	m	984		
11	150mm Wide reinforcement built in horizontally (in foundations)	m	290		
<u>Prestressed fabricated concrete lintels including necessary temporary supports:</u>					
12	90 x 75mm Lintels in lengths not exceeding 3m	m	14		
13	90 x 75mm Lintels in lengths exceeding 3m and not exceeding 4.5m	m	24		
14	90 x 75mm Lintels in lengths exceeding 4.5m and not exceeding 6m	m	23		
<u>Turning pieces to lintels etc.:</u>					
15	220mm Wide turning pieces	m	29		
<u>Galvanised hoop iron cramps, ties, etc.:</u>					
16	30 x 1,6mm Cramp 500mm long with one end fixed to timber and other end built into brickwork	No	66		
<u>Air bricks etc.:</u>					
17	230 x 160mm Clay vermin proof air brick	No	16		
18	390 x 190 x 140mm Breeze Block code: 15.33.3	No	76		
19	Weepholes	No	37		
20	220 x 95mm Opening in pit walls	No	8		
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Masonry					

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Bill No. 4
Masonry

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<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 5</u> <u>WATERPROOFING</u> <u>PREAMBLES</u> 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. <u>SUPPLEMENTARY PREAMBLES</u> <u>Waterproofing:</u> 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. <u>General:</u> No damp-proof course shall be laid directly below the mortar or other bedding material under sills. 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. 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. 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. <u>DAMPPOOFING 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	25	
2	Under window cills	m ²	6	
Carried to Collection				R
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Waterproofing				

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		Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 6</u> <u>ROOF COVERINGS</u> <u>PREAMBLES</u> 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. <u>PROFILE METAL SHEETING AND ACCESSORIES</u> <u>0,58mm Thick roll-formed GRS corrugated 10,5 with 'Chromadek' Z275 protective coating fixed to 76 x 50mm SA pine purlins at max 900mm centres, including galvanised steel sheet accessories:</u>					
1	Roof covering with pitch not exceeding 8 degrees.	m ²	136		
<u>SHEET METAL FLASHING, LINING, COPING, ETC.</u> <u>0.58mm Galvanised steel flashings to suite Corrugated profile with 'Chromadek' finish to match roof covering:</u>					
2	Narrow and Broad serated flute closers	m	61		
3	Moulded narrow and Broad polyethylene filler blocks.	m	36		
<u>ROOF INSULATION</u> <u>Sisalation "FR405 Light Industrial", or similar approved insulation with 150mm minimum industrial overlap laid in in accordance with manufatures specification:</u>					
4	Insulation laid under purlins and fixed concurrent with roof sheeting, including galvanised nails and straining wires.	m ²	136		
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Roof Coverings					

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 7</u> <u>CARPENTRY AND JOINERY</u> <u>PREAMBLES</u> 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. <u>SUPPLEMENTARY PREAMBLES</u> <u>Fixing:</u> Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as 'bolted', the bolts have been given elsewhere <u>Joinery:</u> Descriptions of frames shall be deemed to include frames, transomes, rails, etc. Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts <u>Decorative thermosetting plastic laminate covering:</u> Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish <u>ROOFS, ETC.</u> <u>SA Pine grade 6</u>				
1	38 x 114mm Wall plates	m	48	
2	50 x 152mm Rafters in lengths exceeding 2,4m and not exceeding 6,6m	m	150	
3	76 x 50mm SA Pine Purlins @ 900mm c/c on timber rafters to Engineers detail and specification.	m	180	
4	125 x 76mm Splayed purlins	m	30	
Carried to Collection			R	
Section No. 2 Bill No. 7 Carpentry And Joinery				

		Unit	Quantity	Rate	Amount
	<u>FRAMED DOORS, ETC.</u>				
	<u>SOLID HARDWOOD TIMBER DOORS</u>				
5	40mm Framed ledged, braced and battened door 813 x 812mm high of 44 x 110mm top rail and stiles, 44 x 150mm middle ledge and braces and 44 x 220mm bottom ledge filled in with 22 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. (D4)	No	4		
6	40mm Framed ledged, braced and battened door 813 x 2032mm high of 44 x 110mm top rail and stiles, 44 x 150mm middle ledge and braces and 44 x 220mm bottom ledge filled in with 22 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. (D1)	No	6		
7	40mm Framed ledged, braced and battened door 813 x 1832mm high of 44 x 110mm top rail and stiles, 44 x 150mm middle ledge and braces and 44 x 220mm bottom ledge filled in with 22 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. (D3)	No	15		
8	40mm Framed ledged, braced and battened door 950 x 2032mm high of 44 x 110mm top rail and stiles, 44 x 150mm middle ledge and braces and 44 x 220mm bottom ledge filled in with 22 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. (D2)	No	1		
	<u>DOOR FRAMES, ETC.</u>				
	<u>Wrought softwood</u>				
9	70 x 108mm Rebated linings, plugged	m	6		
	<u>Wrot meranti frames</u>				
10	70 x 108mm Rebated frames for door size 813 x 2032mm (D1).	No	6		
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	Bill No. 7				
	Carpentry And Joinery				

		Unit	Quantity	Rate	Amount
11	70 x 108mm Rebated frames for door size 813 x 2032mm (D2).	No	1		
12	70 x 108mm Rebated frames for door size 813 x 2032mm (D3).	No	15		
<u>EAVES, VERGES, ETC.</u>					
<u>High density plain fibre-cement fascias and barge boards:</u>					
13	15 x 225mm 'Nutech Everite' or equally approved high density plain cement fascia board, twice screwed to, and including 50 x 150mm timber supports with 12 x 40mm countersunk brass screws and washers with aluminium H-profile fascia board jointers between boards.	m	61		
14	200 x 80mm 'Nutech Everite' or equally approved (Code: 721-740) moulded barge board, twice screwed to, and including 38 x 38mm trimmer battens with 12 x 40mm countersunk brass screws and washers with PVC H-profile barge board jointers between boards.	m	36		
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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 8</u> <u>IRONMONGERY</u> <u>PREAMBLES</u> <u>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.</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary items</u> Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc. clarifying the features of the products/articles offered On request returnable samples are to be provided to the principal agent for consideration <u>Finishes to ironmongery</u> Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded <u>IRONMONGERY TO DOORS, FRAMES, ETC.</u> <u>'NYLON' or equally approved:</u> 1 100 x 75 x 3mm Brass Butt, as HMP ref.H32R Pairs 26 <u>CATCHES, CABIN HOOKS, ETC.</u> <u>'DCLSA' or equally approved:</u> 2 Stainless steel hat and coat buffer hook (code: DHC-SS-030A) No 15 <u>'EREBUS' or equal approved:</u> 3 Adjustable Roller catch - SC (code: No.1 E1511). No 4				
Carried to Collection			R	
Section No. 2 Bill No. 8 Ironmongery				

		Unit	Quantity	Rate	Amount
	<u>LOCKS</u>				
	<u>'Union' or equally approved sash mortice locksets:</u>				
4	3 Lever lockset, complete.	No	7		
5	Satin chrome plated W/C indicator bolt (code: CZ80941SC).	No	15		
	<u>HANDLES, ETC.</u>				
	<u>'DORMA' or equal approved:</u>				
6	152 x 19mm Straight BT Pull Handle	No	4		
7	Stainless Steel Straight Tubular Pull Handle with flang fixing (code: DPH301B)	No	1		
	<u>'Union' or equal approved:</u>				
8	Radius Lever Furniture (code: CZ682-24SC).	No	7		
	<u>SUNDRIES</u>				
9	Concealed black plastic door stop (code: No.1 DJW)	No	26		
	<u>LETTERS, NAME PLATE, ETC.</u>				
	<u>"Union" or similar approved aluminium signage fixed manufacture's specification:</u>				
10	152 x 152 x 3mm "BOYS" toilet sign	No	1		
11	152 x 152 x 3mm "GIRLS" toilet sign	No	1		
12	152 x 152 x 3mm "FEMALES" toilet sign	No	1		
13	152 x 152 x 3mm "MALES" toilet sign	No	1		
14	152 x 152 x 3mm "DISABLED" toilet sign	No	1		
15	152 x 152 x 3mm "GRADE R" toilet sign	No	1		
16	152 x 152 x 3mm "TEACHER'S" toilet sign	No	1		
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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 9</u> <u>METALWORK</u> <u>PREAMBLES</u> 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. <u>SUPPLEMENTARY PREAMBLES</u> <u>General:</u> 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. <u>Reference to drawings and details:</u> 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. <u>Preservation of steel work:</u> 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. <u>Hot dip galvanised to steel work:</u> 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. <u>Fixing:</u> Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres				
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Metalwork				

	Unit	Quantity	Rate	Amount
Doors and windows shall comply with AAAMSA design criteria. Glazing shall comply with SAGGA regulations. Glass shall be laminated performance glass as shown on the window schedules appended to these bills of quantities (as described in the headings to window descriptions). Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules. Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed. For purpose made windows and doors, refer to drawings annexed to these bills of quantities The following certificates shall be provided prior to commencement of site work: 1. A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product 2. A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively 3. A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process 4. A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked 5. A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for a period of not less than five <u>Descriptions of bolts, anchors, etc.:</u> Unless otherwise described, descriptions of items shall be deemed to include for fixing to brickwork or concrete Where item are described as "bolted", the bolts are measured elsewhere Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Items described as 'holed for bolt(s)' shall be deemed to exclude the bolts unless otherwise described				
Carried to Collection			R	
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Metalwork				

		Unit	Quantity	Rate	Amount
<u>GALVANISED STEEL SECURITY WINDOW BARS, ETC.</u>					
<u>Galvanised mild steel security burglar bars constructed from 30 x 12mm galvanised steel flat bar with 10mm diameter galvanised steel round bars infill at approximately 125mm centres. Burglar to be screwed fixed to walls using M10 expansion bolts screwed into masonry predrilled holes, including a hot dip galvanised finish as per Architects specifications.</u>					
1	600 x 600mm high Burglar Screen, for (W1).	No	26		
2	1200 x 600mm high Burglar Screen, for (W2).	No	11		
<u>ALUMINIUM WINDOWS, ETC.</u>					
<u>Powder coated purpose made window units, complete with subframes, ironmongery, glazing to comply with SABS 0400, sealing, including 10 x 10mm burglar bar sections fixed to frame during manufacture, over all opening sections and fixing to brickwork or concrete. All coating and burglar bars to be executed by manufacturer in accordance with SANS 1796 and with a guarantee of not less than 15 years to be provided against peeling and discolouration, all in accordance with Architect's specifications.</u>					
3	600 x 600mm high Window refer to (W1).	No	26		
4	1200 x 600mm high Window refer to (W2).	No	11		
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		Amount	
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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 10</u> <u>PLASTERING</u> <u>PREAMBLES</u> 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. <u>SUPPLEMENTARY PREAMBLES</u> <u>Moisture tests:</u> 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 <u>Labours, etc.:</u> Labours such as fair, rounded and chamfered edges, trowel cuts, throats, V-joints, angles, etc shall be deemed to be included in the descriptions <u>Granolithic:</u> Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour. Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying. 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. 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.				
Carried to Collection			R	
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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 <u>Cement plaster:</u> Cement plaster should comply with SANS 2001 - Construction Works Part EM1: Cement Plaster. Unless otherwise described, cement plaster shall be taken to mean Class 1 cement plaster For conventional smooth plaster all the sand should pass through a sieve with 2,36mm openings. For coarsely textured decorative work, the corresponding sieve size 4,75mm, Oversize particles should be removed by sieving. Water used for plastering should be fit for drinking. All sand should be free from organic matter such as roots, seeds, twigs, humus, etc. <u>Self - levelling screed:</u> To Contractor's expense should Grade 1 variance in F1 above not be achieved. Grind & prime existing surface with self-leveling Tal-Screed Master or equal & approved - thickness between between 4 to 5mm <u>INTERNAL PLASTER</u> <u>Cement plaster on brickwork</u> <table><tr><td>1</td><td>On walls</td><td>m²</td><td>395</td><td></td></tr><tr><td>2</td><td>On pit walls</td><td>m²</td><td>207</td><td></td></tr><tr><td>3</td><td>On narrow widths</td><td>m²</td><td>21</td><td></td></tr></table> <u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u> <u>Dividing strips</u> <table><tr><td>4</td><td>3 x 57mm Flat section brass water bar into concrete</td><td>m</td><td>21</td><td></td></tr></table> <tr><td colspan="3">Carried to Collection</td><td>R</td><td></td></tr>					1	On walls	m ²	395		2	On pit walls	m ²	207		3	On narrow widths	m ²	21		4	3 x 57mm Flat section brass water bar into concrete	m	21		Carried to Collection			R	
1	On walls	m ²	395																										
2	On pit walls	m ²	207																										
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4	3 x 57mm Flat section brass water bar into concrete	m	21																										
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		Unit	Quantity	Rate	Amount
5	3 x 40mm Flat section brass dividing strips between differing floor finishes	m	7		
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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 11</u> <u>PLUMBING AND DRAINAGE</u> <u>PREAMBLES</u> 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. <u>SUPPLEMENTARY PREAMBLES</u> <u>Wire gratings:</u> Descriptions of gutter outlets etc. shall be deemed to include wire balloon gratings <u>Stormwater channels:</u> Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc., and disposal of surplus material on site <u>French drains:</u> 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 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 <u>Stainless steel basins, sinks, wash troughs, urinals, etc.:</u> 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 <u>Sealing of edges:</u> Outer edges of sinks, basins, baths, urinals, etc. are to be sealed against adjacent surfaces with approved silicone				
Carried to Collection			R	
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Bill No. 11				
Plumbing And Drainage				

	Unit	Quantity	Rate	Amount
<u>uPVC pipes and fittings:</u> 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. <u>uPVC pressure pipes and fittings:</u> 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. <u>High density polyethylene (HDPE) pipes and fittings:</u> Pipes shall be type IV and of the class specified with Plasson or Alprene compression fittings. <u>Polycop polypropylene pipes:</u> 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. <u>Copper pipes:</u> 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. 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. <u>Reducing fittings:</u> 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.				
Carried to Collection			R	
Section No. 2				
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Plumbing And Drainage				

	Unit	Quantity	Rate	Amount
<u>Fixing of pipes:</u> Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc., casting in, building in or suspending not exceeding 1m below suspension level <u>Paper wrapping to pipes:</u> 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 <u>Disinfection of water pipework:</u> Water pipework is to be disinfected at completion in accordance with SABS 1200L (provision for disinfection elsewhere) <u>Laying, backfilling, bedding, etc. of pipes:</u> Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled 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 <u>General:</u> 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 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 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)				
Carried to Collection			R	
Section No. 2 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>0.9mm Thick seamless aluminium Ogee Gutters, thick coated internally and externally with ColourTech G4 in colour marble white and accessories:</u> <tr> <td>1</td> <td>m</td> <td>61</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>No</td> <td>6</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>No</td> <td>6</td> <td></td> <td></td> </tr> <tr> <td colspan="5"> <u>Rectangular PVC fluted 100 x 75mm Rainwater down pipes and accessories:</u> <tr> <td>4</td> <td>m</td> <td>18</td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>No</td> <td>6</td> <td></td> <td></td> </tr> <tr> <td>6</td> <td>No</td> <td>6</td> <td></td> <td></td> </tr> <tr> <td>7</td> <td>No</td> <td>6</td> <td></td> <td></td> </tr> <tr> <td colspan="5"> <u>SANITARY FITTINGS</u> <u>'Atlas plastics' or equally approved:</u> <tr> <td>8</td> <td>No</td> <td>4</td> <td></td> <td></td> </tr> <tr> <td>9</td> <td>No</td> <td>17</td> <td></td> <td></td> </tr> <tr> <td colspan="5"> <u>'Franke Model TE' Barron Bowl Urinal or equally approved:</u> <tr> <td>10</td> <td>No</td> <td>5</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Carried to Collection</td> <td>R</td> <td></td> </tr> <tr> <td colspan="3">Section No. 2</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Bill No. 11</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Plumbing And Drainage</td> <td></td> <td></td> </tr> </td></tr></td></tr></td></tr>					1	m	61			2	No	6			3	No	6			<u>Rectangular PVC fluted 100 x 75mm Rainwater down pipes and accessories:</u> <tr> <td>4</td> <td>m</td> <td>18</td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>No</td> <td>6</td> <td></td> <td></td> </tr> <tr> <td>6</td> <td>No</td> <td>6</td> <td></td> <td></td> </tr> <tr> <td>7</td> <td>No</td> <td>6</td> <td></td> <td></td> </tr> <tr> <td colspan="5"> <u>SANITARY FITTINGS</u> <u>'Atlas plastics' or equally approved:</u> <tr> <td>8</td> <td>No</td> <td>4</td> <td></td> <td></td> </tr> <tr> <td>9</td> <td>No</td> <td>17</td> <td></td> <td></td> </tr> <tr> <td colspan="5"> <u>'Franke Model TE' Barron Bowl Urinal or equally approved:</u> <tr> <td>10</td> <td>No</td> <td>5</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Carried to Collection</td> <td>R</td> <td></td> </tr> <tr> <td colspan="3">Section No. 2</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Bill No. 11</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Plumbing And Drainage</td> <td></td> <td></td> </tr> </td></tr></td></tr>					4	m	18			5	No	6			6	No	6			7	No	6			<u>SANITARY FITTINGS</u> <u>'Atlas plastics' or equally approved:</u> <tr> <td>8</td> <td>No</td> <td>4</td> <td></td> <td></td> </tr> <tr> <td>9</td> <td>No</td> <td>17</td> <td></td> <td></td> </tr> <tr> <td colspan="5"> <u>'Franke Model TE' Barron Bowl Urinal or equally approved:</u> <tr> <td>10</td> <td>No</td> <td>5</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Carried to Collection</td> <td>R</td> <td></td> </tr> <tr> <td colspan="3">Section No. 2</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Bill No. 11</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Plumbing And Drainage</td> <td></td> <td></td> </tr> </td></tr>					8	No	4			9	No	17			<u>'Franke Model TE' Barron Bowl Urinal or equally approved:</u> <tr> <td>10</td> <td>No</td> <td>5</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Carried to Collection</td> <td>R</td> <td></td> </tr> <tr> <td colspan="3">Section No. 2</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Bill No. 11</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Plumbing And Drainage</td> <td></td> <td></td> </tr>					10	No	5			Carried to Collection			R		Section No. 2					Bill No. 11					Plumbing And Drainage				
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<u>Rectangular PVC fluted 100 x 75mm Rainwater down pipes and accessories:</u> <tr> <td>4</td> <td>m</td> <td>18</td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>No</td> <td>6</td> <td></td> <td></td> </tr> <tr> <td>6</td> <td>No</td> <td>6</td> <td></td> <td></td> </tr> <tr> <td>7</td> <td>No</td> <td>6</td> <td></td> <td></td> </tr> <tr> <td colspan="5"> <u>SANITARY FITTINGS</u> <u>'Atlas plastics' or equally approved:</u> <tr> <td>8</td> <td>No</td> <td>4</td> <td></td> <td></td> </tr> <tr> <td>9</td> <td>No</td> <td>17</td> <td></td> <td></td> </tr> <tr> <td colspan="5"> <u>'Franke Model TE' Barron Bowl Urinal or equally approved:</u> <tr> <td>10</td> <td>No</td> <td>5</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Carried to Collection</td> <td>R</td> <td></td> </tr> <tr> <td colspan="3">Section No. 2</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Bill No. 11</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Plumbing And Drainage</td> <td></td> <td></td> </tr> </td></tr></td></tr>					4	m	18			5	No	6			6	No	6			7	No	6			<u>SANITARY FITTINGS</u> <u>'Atlas plastics' or equally approved:</u> <tr> <td>8</td> <td>No</td> <td>4</td> <td></td> <td></td> </tr> <tr> <td>9</td> <td>No</td> <td>17</td> <td></td> <td></td> </tr> <tr> <td colspan="5"> <u>'Franke Model TE' Barron Bowl Urinal or equally approved:</u> <tr> <td>10</td> <td>No</td> <td>5</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Carried to Collection</td> <td>R</td> <td></td> </tr> <tr> <td colspan="3">Section No. 2</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Bill No. 11</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Plumbing And Drainage</td> <td></td> <td></td> </tr> </td></tr>					8	No	4			9	No	17			<u>'Franke Model TE' Barron Bowl Urinal or equally approved:</u> <tr> <td>10</td> <td>No</td> <td>5</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Carried to Collection</td> <td>R</td> <td></td> </tr> <tr> <td colspan="3">Section No. 2</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Bill No. 11</td> <td></td> <td></td> </tr> <tr> <td colspan="3">Plumbing And Drainage</td> <td></td> <td></td> </tr>					10	No	5			Carried to Collection			R		Section No. 2					Bill No. 11					Plumbing And Drainage																								
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		Unit	Quantity	Rate	Amount
	<u>'Franke Model Oval B' Stainless steel Basins' or equally approved:</u>				
11	420 x 336 x 168mm deep stainless steel wall mounted wash hand basin including bolting to wall	No	5		
	<u>32mm Diameter stainless steel grab rails in disabled toilets:</u>				
12	750mm Long back rail.	No	1		
13	Dogleg side rail with center flange.	No	1		
	<u>Sanitary Accessories:</u>				
14	Standard vandal proof 2 roll holder (TR2) white including plugging to wall with mild steel wall screws with PVC wall anchors.	No	21		
	<u>TAPS, VALVES, ETC.</u>				
	<u>Cobra or similar approved:</u>				
15	15mm Stopcock.	No	6		
	<u>'Cobra Watertech' or equally approved:</u>				
16	40mm 360 CP bottle trap	No	5		
17	15mm Chrome plated (code 111-15) raised nose Pillartap.	No	4		
18	15mm Disabled tap chrome plated with long handle (COLD WATER ONLY).	No	1		
	<u>SANITARY PLUMBING</u>				
	<u>uPVC Pipes:</u>				
19	40mm Pipes.	m	42		
20	110mm Pipes laid in and including trenches not exceeding 1m deep under surface beds.	m	16		
	<u>Extra over uPVC pipes for fittings or equally approved:</u>				
21	40mm Fittings	No	14		
22	110mm Fittings	No	10		
23	110mm Air vent pipe 3.8m long painted black with 250mm whirlbird vent held together with master-bat.	No	14		
	<u>WATER SUPPLIES</u>				
	<u>Polypropylene pipes:</u>				
24	15mm Pipes.	m	20		
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		Unit	Quantity	Rate	Amount
25	35mm Pipes.	m	12		
	<u>Extra over polypropylene pipes for brass compression fittings:</u>				
26	15mm Fittings.	No	12		
27	35mm Fittings	No	8		
	<u>TESTING</u>				
28	Testing water pipe system.	Item			
	<u>TRAPS ETC</u>				
	<u>uPVC:</u>				
29	110mm Gulley "P" trap complete with concrete surround	No	3		
	<u>MANHOLE COVERS as pre SANS 1882 MD DMC 4A Lid and Frame</u>				
	<u>'Civilworks Group' class MD Hinged Cover and Frame :</u>				
30	600mm Diameter, with Circular Hinged 14kg Cover and 13kg Frame	No	12		
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Plumbing And Drainage					

BILL NO. 11
PLUMBING AND DRAINAGE
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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 12</u> <u>GLAZING</u> <u>PREAMBLES</u> 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. <u>SUPPLEMENTARY PREAMBLES</u> <u>General:</u> Glazing should comply with SANS 10137: The installation of glazing in buildings. Quality assurance during stages of fabrication and installation are important. Glass should be protected against harmful splashes and weld splatter. Clean glass as soon practicable after installation with mild soap and water. <u>Float glass:</u> Silvered float glass mirrors shall comply with SANS 1236, Class A with chamfered and /or polished edges. Fasteners shall be chrome plated mirror screws, including vertical strips of double sided tape to allow ventilation: support mirrors larger than 1m2 with additional clips, anchors or beads. <u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u> <u>6mm Thick clear float glass silver-backed mirror, with polished bevelled edges four (4) times holed for and fixed with chromium plated dome headed mirror screws:</u>				
1	Mirror 600 x 450mm high concealed thief resistant fixings.	No	10	
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Section No. 2				
Bill No. 12				
Glazing				

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 13</u> <u>PAINTWORK</u> <u>PREAMBLES</u> 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. <u>SUPPLEMENTARY PREAMBLES</u> <u>General:</u> All painting shall be done in accordance with SANS 10305 (Painting of buildings part 4,5,6) and all paints and varnish in accordance with SANS 129444 corrosion protection of steel structures by protective paint systems. All surfaces whether wood, metal, etc. shall be cleaned of any matter such as dust, rust scale or dirt to receive any paint finish. <u>Preparation of surfaces:</u> Allow time for the drying of surface moisture. Ensure work by other trades man that might affect painting has been completed. Inspection of factory primed components to ensure that the primer is in satisfactory condition, if not take remedial action. Remove excess pipe jointing material. <u>Preparation for painting:</u> All manufacturers instructions and recommendation shall be followed in respect of temperature and its relation to curing time and pot life. Sandpaper all coats of paint and varnish and leave time to dry before next coat is applied. Do not paint when conditions are unsuitable, for example dust, insufficient light, direct sunlight or inclement weather: do not apply paint if the ambient temperature is greater than 10 degrees and lesser than 35 degrees celsius. Mask all surrounding surfaces when spray-painting, don not spray paint in windy weather. <u>Colours:</u> Unless otherwise described, all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SABS 1091 When staining timber, the resultant colour or shade must be to the complete satisfaction of the Principal Agent before any overcoating or preservative is applied				
Carried to Collection			R	
Section No. 2				
Bill No. 13				
Paintwork				

		Unit	Quantity	Rate	Amount
Unless otherwise described, all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SABS 1091 When staining timber, the resultant colour or shade must be to the complete satisfaction of the Principal Agent before any overcoating or preservative is applied. Identification colour marking (e.g. Pipes transporting different fluids/gases) shall be in accordance with SANS 10140. <u>ON INTERNAL PLASTER SURFACES</u> <u>Prepare surfaces and remove all loose material, apply one coat alkali resistant primer and two coats PVA emulsion paint for interior use.</u>					
1	On walls	m ²	395		
2	On narrow widths	m ²	22		
<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>					
3	Fascias and barge boards, including priming metal jointing strips	m ²	21		
<u>ON WOOD SURFACES</u> <u>One coat universal undercoat and two coats eggshell enamel or equally approved:</u>					
4	Internal doors	m ²	54		
<u>One coat universal undercoat and two coats eggshell enamel or equally approved:</u>					
5	External doors.	m ²	23		
<u>SPECIAL FINISHES</u> <u>Self leveling epoxy, minmum 3mm thick</u> <u>Two coats solvent-free water dispersed "Cote 337" industrial epoxy coating to concrete floors applied in accordance with a.b.e Construction Chemicals recommendations including surface preparation i.e removal of dirt, dust, oil, grase and loose particles etc.:</u>					
6	On floors	m ²	74		
7	50 x 50mm High coved epoxy skirting protruding 6mm from wall face with fair edge and slightly rounded angle at top.	m	144		
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PAINTWORK
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Paintwork

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BUILDING WORKS
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SECTION NO. 3
EXTERNAL WORKS

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>EXTERNAL WORKS</u> <u>BILL NO. 1</u> <u>RAMPS, WALKWAYS AND APRONS</u> <u>PREAMBLES</u> 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. <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> 1 Under walkways, ramps and aprons m ³ 43 <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> 2 Under walkways, ramps and aprons m ³ 43 <u>Surface Preparation:</u> 3 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 ² 290 <u>CONCRETE, FORMWORK & REINFORCEMENT</u> <u>Reinforced 25Mpa/19mm Concrete:</u> 4 Surface beds cast in panels ramps and aprons m ³ 41 5 Thickening under surface bed. m ³ 15 <u>Finishing to surfaces of concrete smooth with a wood float:</u> 6 Surface beds to falls to ramps and aprons m ² 150 <u>FORMWORK</u> <u>Smooth Formwork (Degree of Accuracy II)</u> 7 Edges, risers, ends and reveals not exceeding 300mm high m 317 Carried to Collection R Section No. 3 Bill No. 1 Ramps, Walkways And Aprons				

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RAMPS, WALKWAYS AND APRONS

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Bill No. 1

Ramps, Walkways And Aprons

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>EXTERNAL WORKS</u> <u>BILL NO. 2</u> <u>STORMWATER CHANNELS, ETC.</u>				
<u>PREAMBLES</u> 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.				
<u>SUPPLEMENTARY PREAMBLES</u> Supplementary Preambles from relevant trades/Bills in this tender document are applicable to items in this section				
<u>Reference to drawings and details:</u> Where drawings and/ or details have been referred to in the description of items the Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained.				
<u>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>				
1	Under stormwater channels, etc.	m ³	6	
<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>				
2	Under stormwater channels, etc.	m ³	6	
<u>Compaction of surfaces:</u>				
3	Compaction of ground under channnels, including scarifying for depth of 150mm, breaking down oversize material, adding suitable material where necessary and compact to 95% MOD ASSHTO desity.	m ²	40	
Carried to Collection			R	
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Bill No. 2				
Stormwater Channels, Etc.				

		Unit	Quantity	Rate	Amount
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>					
<u>In-situ concrete (25Mpa) 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 filling and ramming, laying to falls, bedding and pointing in (3:1) cement mortar:</u>					
4	Channel size 800mm wide x 100mm thick with 100mm deep v-channel waterway	m	50		
5	Extra over for angle	No	12		
6	Extra over for intersections	No	2		
<u>SPREADERS, ETC.</u>					
<u>20Mpa/19mm Concrete:</u>					
7	Triangular water spreader as channel outlet 150mm wide x 1 000mm long x 100mm thick including 50 x 50mm raised edges and ten hard burned bricks set in concrete and slightly protruding to follow the general shape of the spreader	No	2		
<u>SUNDRIES</u>					
<u>Joint forming material in movement joints:</u>					
8	10mm Bitumen impregnated fibre board vertically between concrete surfaces	m ²	40		
<u>JOINT SEALANTS, ETC. (Work Group No. 120)</u>					
<u>Two-part polysulphide sealing compound including backing cord, bond breaker, primer, etc:</u>					
9	10 x 20mm In expansion joints in channels including raking out expansion joint filler as necessary	m	20		
<u>MESH REINFORCEMENT</u>					
10	Type 245 fabrick reinforcement in V- Channels, etc.	m ²	40		
Carried to Collection				R	
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Stormwater Channels, Etc.					

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BILL NO. 2
STORMWATER CHANNELS, ETC.
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Stormwater Channels, Etc.

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>EXTERNAL WORKS</u> <u>BILL NO. 3</u> <u>SOIL DRAINAGE</u> <u>PREAMBLES</u> 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. <u>SUPPLEMENTARY PREAMBLES</u> Supplementary Preambles from relevant trades/Bills in this tender document are applicable to items in this section <u>Reference to drawings and details:</u> Where drawings and/ or details have been referred to in the description of items the Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained. <u>uPVC pipes and fittings:</u> Sewer and drainage pipe and fittings shall be jointed and seated with butyl rubber rings. Soil, waste and vent pipes and fittings shall be solvent weld jointed <u>EARTHWORKS</u> <u>EARTHWORKS (PIPE TRENCHES)</u>				
1				
Remove topsoil to nominal depth of 150mm, stockpile and maintain (SABS Pay Ref SANS 1200DB):	m ²	32		
2				
Replace topsoil and local grasses in accordance with the Environmental Specifications	m ²	32		
<u>BEDDING (PIPES)</u>				
3				
Provision of bedding from excavations on site (to be approved by Engineer).	m ³	6		
4				
Selected fill material from excavations on site (to be approved by Engineer).	m ³	32		
Carried to Collection			R	
Section No. 3 Bill No. 3 Soil Drainage				

		Unit	Quantity	Rate	Amount
<u>PIPE LAYING FOR GREY WATER DRAINAGE</u>					
<u>Supply, lay, joint, bed (flexible pipes) and test – Class 34 uPVC sewer pipes of the following nominal diameters</u>					
5	110mm Diameter pipes lain in and including trenches not exceeding 1m deep	m	10		
6	110mm Diameter pipes lain in and including trenches exceeding 1m deep but not exceeding 2m deep	m	30		
7	110mm Diameter perforated pipes lain in and including trenches exceeding 1m deep but not exceeding 2m	m	5		
<u>Extra over heavy duty (Class 34) uPVC sewer and drain pipes for fittings:</u>					
8	110mm Bend	No	5		
9	110mm Junction	No	3		
10	110mm Access bend	No	3		
11	110mm Access junction	No	3		
12	110mm Rodding eye	No	4		
<u>Gulleys:</u>					
13	Standard precast concrete gully	No	6		
14	190 x 110mm Gully head and Gate	No	6		
15	110mm Gully 'P' trap	No	6		
16	110mm Cast iron 45 Degree Rodding Eye and cover	No	4		
17	110mm 45 Degree junction	No	3		
<u>Sundries:</u>					
18	300 x 300 x 100mm Precast concrete inspection eye marker slab set in ground.	No	4		
19	100mm Cast iron cleaning eye	No	4		
<u>Testing:</u>					
20	Testing drainage pipe system	Item			
<u>SOAK-AWAY</u>					
<u>Bulk Excavation in earth for soak away pit:</u>					
21	Not exceeding 2m deep	m ³	9		
Carried to Collection				R	
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Soil Drainage					

	Unit	Quantity	Rate	Amount
<u>FILLING ETC. OTHER THAN BULK</u>				
<u>Coarse river sand:</u>				
22	Sides of trenches and holes	m ³	1	
<u>Uncompacted earth filling obtained from the excavations and/or prescribed stock piles on site:</u>				
23	Over soak-away pit to make up levels	m ³	1	
24	Backfilling to trenches	m ³	2	
<u>50mm Gabion Stone:</u>				
25	In sub-soil drain trenches around pipes	m ³	8	
<u>FILTER FABRIC</u>				
<u>"Bidim" A4 or similar approved nonwoven continuous filament needle punched polyester geotextile weighing 0.21kg/m², with 250mm laps fastened with galvanised steel wire:</u>				
26	Around stone filling in soak away pit	m ²	24	
<u>Geotextile 'BIDIM' U14 or similar approved to prevent soil from washing through:</u>				
27	Top of trenches	m ²	5	
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	Unit	Quantity	Rate	Amount
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<u>EXTERNAL WORKS</u>				
<u>BILL NO. 4</u>				
<u>WATER TANKS AND STANDS</u>				
<u>PREAMBLES</u>				
For Preambles the tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A July 2013) and Particular Specification (PW371-B July 2013)				
<u>EARTHWORKS</u>				
<u>Excavation not exceeding 2m deep:</u>				
1	Trenches and holes for thickening under surface beds.	m ³	26	
<u>Extra over excavation in pickable material for column bases, trenches, lift pits, sumps, etc for excavation:</u>				
2	Soft Rock	m ³	1	
3	Hard rock	m ³	1	
<u>Keeping excavation free of water:</u>				
4	Keeping excavations free of all water other than subterranean water	Item		
<u>CARTING AWAY</u>				
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
5	Off site to a dumping site to be found by the Contractor	m ³	28	
<u>EARTH FILLING, ETC.</u>				
<u>Filling with material from excavations compacted to a density of at least 96% Mod. AASHTO maximum density:</u>				
6	Backfilling to trenches, holes, etc.	m ³	21	
<u>Filling with approved G5 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>				
7	Under concrete platforms	m ³	25	
Carried to Collection			R	
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Bill No. 4				
Water Tanks And Stands				

	Unit	Quantity	Rate	Amount
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>25MPa/19mm Concrete:</u>				
8	Concrete block surround footings cast against excavated surfaces	m ³	8	
<u>REINFORCED CONCRETE</u>				
<u>25Mpa/19mm Concrete:</u>				
9	Concrete platforms	m ³	2	
<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
10	Concrete platforms	m ²	41	
<u>Smooth formwork (Degree of Accuracy II):</u>				
11	Edge, risers, ends and reveals not exceeding 300mm high	m	32	
<u>REINFORCEMENT (PROVISIONAL)</u>				
<u>Fabric reinforcement:</u>				
12	High tensile steel ref 395 mesh in concrete surface beds, slabs, etc.	m ²	41	
<u>MASONRY</u>				
<u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u>				
<u>Brickwork in Class II mortar:</u>				
13	220mm Walls	m ²	35	
<u>BRICKWORK IN SUPERSTRUCTURE</u>				
<u>Brickwork in Class II mortar:</u>				
14	220mm Walls	m ²	51	
<u>BRICKWORK SUNDRIES: (CPAP Work Group 116)</u>				
<u>Brickwork Reinforcement:</u>				
15	150mm Wide reinforcement built in horizontally in foundations.	m	1 646	
16	150mm Wide reinforcement built in horizontally.	m	941	
<u>FACE BRICKWORK</u>				
<u>Face brick in class II mortar pointed with recessed horizontal and vertical joints:</u>				
17	Extra over 220mm skin of brickwork for face brickwork	m ²	54	
Carried to Collection				R
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Bill No. 4				
Water Tanks And Stands				

		Unit	Quantity	Rate	Amount
<u>WATERPROOFING</u>					
<u>DAMPPROOFING TO WALLS AND FLOORS (CPAP Work Group No. 120)</u>					
<u>One layer of 375 micron brickgrip DPC embossed damp proof course:</u>					
18	In walls	m ²	15		
<u>One layer of 250 micron gunplas green waterproof sheeting sealed at laps with gunplas pressure sensitive tape:</u>					
19	Under concrete platforms	m ²	34		
<u>SUNDRY GALVANISED STEELWORK</u>					
20	10 x 100mm long Eye-bolt once bent and cast into concrete	No	24		
21	Wire cables (as tie strap, to retain tank in position)	m	30		
22	30 x 1.6mm Hoop iron straps to tanks	m	13		
<u>TANKS ETC.</u>					
23	2400 Litre low profile "Jojo" plastic seamless water storage tank or similar approved complete with fixing lugs and lid, fitted with and including 15mm brass bibtap with handle suitable for padlocking and setting in position on concrete tankstand (elsewhere measured) and tying down with 4mm diameter galvanised wire warped twice around centre of tank and secured to each corner of tank stand with a double strand of 4mm diameter galvanised wire embedded into concrete	No	6		
24	Supply and fit complete to manufacture's instructions leaf eater rain heads to downpipes to prevent blocking.	No	6		
<u>Drainage pipes:</u>					
25	12mm PVC pipes complete with grating	m	48		
<u>Testing:</u>					
26	Allow for testing all drains, and water supplies to the satisfaction of the Representative. All defective work is to be taken out and replaced at the Contractor's expense.	Item			
				R	
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Water Tanks And Stands					

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Amount

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WATER TANKS AND STANDS
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SECTION NO. 3

EXTERNAL WORKS

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SECTION NO. 4
PROVISIONAL SUMS

SECTION NO. 4**PROVISIONAL SUMS****PREAMBLES**

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.

SUPPLEMENTARY PREAMBLES**General:**

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.

Prime cost amounts and provisional sums exclude value added tax.

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.

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.

Where profit stated, the contractor may allow for profit if required

Attendance upon nominated/selected subcontractors:

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

Taking delivery:

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.

Works executed under a separate/direct contract:

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.

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Section No. 4

Bill No. 1

Provisional Sums

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Co-ordination:

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

Number of nominated/selected subcontractors:

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

PROVISIONAL SUMS FOR NOMINATED/SELECTED SUB-CONTRACTORS**Community Liaison Officer:**

- 1 Provide the sum of R25 000.00 (Twenty Five Thousand Rand) for Community Liason Officer with stipend of R5 000.00 each month to be employed by the main contractor for the duration of the contract, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required

Item 25 000 00

- 2 Profit

Item

- 3 Allow for general attendance

Item

Relocating existing fence:

- 4 Provide the sum of R1000 (One Thousand Rand) for relocating existing fence to the back of ablutions by the main contractor, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required

Item 1 000 00

- 5 Profit

Item

- 6 Allow for general attendance

Item

BUDGETARY ALLOWANCES**Contingency Allowance:**

- 7 Provide the sum of R30 000.00 (Thirty Thousand Rand) (To be determined by scope) for adjustment of building work, to be used at the discretion of the Representative/Agent and deducted in whole or in part if not required

Item 30 000 00

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PROVISIONAL SUMS

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Section No. 4
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PRELIMINARIES

BUILDING WORKS

EXTERNAL WORKS

PROVISIONAL SUMS

SubTotal excluding Value Added Tax

ADD VAT @ 15%:

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FINAL SUMMARY

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