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DEVELOPMENT BANK OF SOUTHERN AFRICA

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18	Setting out of the works (clause 18)	Item		
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42.2.4 This agreement is for a government contract where there are specific options that are applicable to a **State** organ only

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[41.0] Where so: Yes

[31.11.2#] (1) Interest rate legislation : The interest rate applicable will be as [31.12.2#] determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999)

[11.2#] (2) Lateral support insurance to be affected by contractor: No

[31.4.2#] (3) Payment will be made for materials and goods: Yes

[40.2.2#] (4) Dispute resolution by litigation : No

[26.1.2#] (5) Extended defects liability period applicable to the following elements: None

42.2.5 Date on which possession of the site is intended to be given:

TBC (date)

42.2.6 Period for the commencement of the works after the contractor takes possession of the site

10 (Ten) working days

42.2.7 For the works as a whole. Intended date of practical completeion and the penalty per calendar day  
TBC (date)

R9 240.00 Penalty Amount

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<b><u>SECTION B: PRELIMINARIES</u></b>				
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44	Checking of documents (B2.1)	Item		
45	Provisional bills of quantities (B2.2)	Item		
46	Availability of construction documentation (B2.3)	Item		
47	Interests of agents (B2.4)	Item		
48	Priced documents (B2.5)	Item		
49	Tender submission (B2.6)	Item		
<u>The site (B3)</u>				
50	Defined works area (B3.1)	Item		
51	Geotechnical investigation (B3.2)	Item		
52	Inspection of the site (B3.3)	Item		
53	Existing premises occupied (B3.4)	Item		
54	Previous work - dimensional accuracy (B3.5)	Item		
55	Previous work - defects (B3.6)	Item		
56	Services - known (B3.7)	Item		
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58	Protection of trees etc (B3.9)	Item		
59	Articles of value (B3.10)	Item		
60	Inspection of adjoining properties etc (B3.11)	Item		
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	<u>Management of contract (B4)</u>			
61	Management of the works (B4.1)	Item		
62	Programme for the works (B4.2)	Item		
63	Progress meetings (B4.3)	Item		
64	Technical meetings (B4.4)	Item		
65	Labour and Plant records (B4.5)	Item		
	<u>Samples, Shop Drawings and Manufacturer's Instructions (B5)</u>			
66	Samples of materials (B5.1)	Item		
67	Workmanship samples (B5.2)	Item		
68	Shop drawings (B5.3)	Item		
69	Compliance with Manufacturer's Instructions (B5.4)	Item		
	<u>Temporary works and plant (B6)</u>			
70	Deposits and fees (B6.1)	Item		
71	Enclosure of the works (B6.2)	Item		
72	Advertising (B6.3)	Item		
73	Plant, equipment, sheds and offices (B6.4)	Item		
74	Main notice board (B6.5)	Item		
75	Subcontractors' notice board (B6.6)	Item		
	<u>Temporary services (B7)</u>			
76	Location (B7.1)	Item		
77	Water (B7.2)	Item		
	<b>Option [A] shall apply</b>			
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78	Electricity (B7.3) <b>Option [A] shall apply</b>	Item		
79	Telecommunication facilities (B7.4)	Item		
80	Ablution facilities (B7.5) <b>Option [A] shall apply</b>	Item		
	<u>Prime cost amounts (B8)</u>			
81	Responsibility for prime cost amounts (B8.1)	Item		
	<u>Attendance on N/S Subcontractors (B9)</u>			
82	General attendance (B9.1)	Item		
83	Special attendance (B9.2)	Item		
84	Commissioning - Fuel, water and power (B9.3)	Item		
	<u>Financial aspects (B10)</u>			
	Statutory taxes, duties and levies (B10.1)	Item		
85	Payment of preliminaries (B10.2) <b>Option [A] shall apply</b>	Item		
86	Adjustment of preliminaries (B10.3)	Item		
87	Payment certificate cash flow (B10.4)	Item		
	<u>General (B11)</u>			
88	Protection of works (B11.1)	Item		
89	Protection/isolation of existing/sectionally occupied works (B11.2)	Item		
90	Security of the Works (B11.3)	Item		
91	Notice before covering work (B11.4)	Item		
92	Disturbance (B11.5)	Item		
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93	Environmental Disturbance (B11.6)	Item
94	Works cleaning and clearing (B11.7)	Item
95	Vermin (B11.8)	Item
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97	Instruction manuals and guarantees (B11.10)	Item
98	As built information (B11.11)	Item
99	Tenant Installations (B11.12)	Item
	<u>Schedule of variables (B12)</u>	
100	Pre-tender information (B12.1)	Item
	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional:	Yes
	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete	No
	12.1.3 Interest of agents (B2.4)  None	
	12.1.4 Defined works area (B3.1)  To be discussed at Site Hand Over meeting	
	12.1.5 Geotechnical investigation (B3.2)  N/A	
	12.1.6 Existing premises occupied (B3.4)  Cognisance must be taken as the school will be fully functional for the duration of the contract. Contractor to work at all times with the school to ensure that children is safe at all times	
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101	<p>C1. Contract Drawings</p> <p>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</p> <p>F: ..... V: ..... T: .....</p>	Item		
102	<p>C2 Proprietary branded products</p> <p>The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.</p> <p>F: ..... V: ..... T: .....</p>	Item		
103	<p>C3. Trade Names, etc.</p> <p>All materials, fittings, finishing, etc., specified hereinafter under a trade name, catalogue number or reference, must be exactly as described. The Architect's approval in writing must be obtained for the use of any alternative to the specification before the submission of tenders otherwise the specified materials, fittings, finishing, etc., will be assumed to have been allowed for in the tender.</p> <p>The Contractor must take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.</p> <p>F: ..... V: ..... T: .....</p>	Item		
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104	<p>C4. Contractors responsibility</p> <p>The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The Contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved.</p> <p>F: ..... V: ..... T: .....</p>	Item		
105	<p>C5. Overtime</p> <p>Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.</p> <p>F: ..... V: ..... T: .....</p>	Item		
106	<p>C6. As built drawings</p> <p>The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.</p> <p>Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.</p> <p>F: ..... V: ..... T: .....</p>	Item		
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107 C7. Construction Instructions

Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books:

a) Construction Instruction Book:

Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated Authority in the book.

Only instructions issued in such book shall be recognised.

b) Daily Record Book:

The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.

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108 C8. Labour record

At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day.

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109	<p>C9. Plant record</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.</p> <p>F: ..... V: ..... T: .....</p>	Item		
110	<p>C10. Encroachment</p> <p>During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor.</p> <p>F: ..... V: ..... T: .....</p>	Item		
111	<p>C11. Method Statement</p> <p>The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.</p> <p>F: ..... V: ..... T: .....</p>	Item		
112	<p>C12. Unauthorised Persons/Workmen on Premises</p> <p>The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect. No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.</p> <p>F: ..... V: ..... T: .....</p>	Item		
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113	<p>C13. Mode of Procedure</p> <p>Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited.</p> <p>Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost.</p> <p>F: ..... V: ..... T: .....</p>	Item		
114	<p>C14. Commodities to be New</p> <p>All commodities, goods, articles or materials throughout the building are to be new except where re-use of existing is specified and are to be handled, stored, used, and/or fixed with care to ensure that they are in perfect condition when incorporated into the Works and thereafter properly protected so as to ensure that they are likewise in perfect condition when handed over at completion of the Work.</p> <p>F: ..... V: ..... T: .....</p>	Item		
115	<p>C15. Standard of Workmanship and Materials</p> <p>In the absence of detailed specifications for any item or items, National Building Regulations, the latest applicable South African Bureau of Standards Specification, or where such does not exist, then the latest applicable British Standard Specification shall apply.</p> <p>F: ..... V: ..... T: .....</p>	Item		
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116	<p>C16. Making Good</p> <p>All materials and workmanship in building up, making good, etc., are to match existing and where new materials abut existing, they are to be neatly jointed to same.</p> <p>Making good' existing work where disturbed or damaged shall mean the provision of the necessary new material to match existing and the necessary workmanship so that a complete restoration is achieved to the satisfaction of the Principal Agent.</p> <p>Making good' where abutting walls, etc., are removed, shall mean the provision of the necessary material and workmanship in filling the gaps to match surrounding finishes so that a complete and perfect surface, continuous with surrounding surfaces and matching of same, is obtained to the Architect's satisfaction.</p> <p>F: ..... V: ..... T: .....</p>	Item		
117	<p>C17. Location of Temporary Buildings and Temporary Services</p> <p>The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and Sub-Contractors use during the construction and maintenance period.</p> <p>There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.</p> <p>F: ..... V: ..... T: .....</p>	Item		
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118	<p>C18. Removal and Making Good of Temporary Works, etc, on Completion</p> <p>The Contractor shall remove (except where specifically stated otherwise) all temporary Works, roads, services and the like used for this Contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting there from.</p> <p>F: ..... V: ..... T: .....</p>	Item		
119	<p>C19. Overloading</p> <p>The Tenderer shall prior to submitting his tender determine from the Engineers any constraints and limitations in respect of Works to be executed, which have load limitations.</p> <p>The Contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the Works. The Contractor shall submit details of his proposed loading, storage, plant erection, etc., to the Principal Agents for their approval prior to proceeding with such loading, storing, erecting or executing work and shall comply with and pay for the Engineers requirements in connection with the provision of temporary support work, etc. Any damage caused by the Works by overloading shall be made good by the Contractor at his sole expense.</p> <p>Notwithstanding any approval given by the Principal Agent or Engineer, the Contractor shall be entirely responsible for damage caused to the Works by overloading which damage shall be made good by the Contractor at his sole expense.</p> <p>F: ..... V: ..... T: .....</p>	Item		
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120	<p>C20. Tender Sum to be Fully Inclusive</p> <p>The Tender Sum is deemed to be the fully inclusive price for the finished work described and is deemed to include inter alia for:</p> <ul style="list-style-type: none"> <li>- The supply of all materials</li> <li>- Labour of every description including additional costs incurred in working overtime, weekends, public holidays, etc., to meet The stipulated programme dates</li> <li>- all making, transport, conveying, cartage, carriage and delivery, etc <ul style="list-style-type: none"> <li>- Taking delivery, unloading, storing, unpacking, hoisting or lowering, settings, fixing and building into positions, cutting and waste, templates, patterns and models</li> </ul> </li> <li>- Provision and maintenance of all plant, equipment, machines, trucks and other vehicles, tackle, tools, staging, sheds, stores and temporary works necessary for the due and proper performance of the Contract Works, establishment charges and all fuel, operating costs and depreciation pertaining to plant, equipment, etc</li> <li>- all applicable import taxes and duties</li> <li>- Overheads and profit</li> <li>- all obligations arising out of The Bills of Quantities, and all costs and charges deemed necessary for complying with The terms and conditions herein</li> </ul> <p>All charges required by the Contractor in connection with Preliminary and General, site establishment and the like.</p> <p>F: ..... V: ..... T: .....</p>	Item		
121	<p>C21. Cost of Claims</p> <p>All costs incurred by the Contractor in the preparation of claims to the satisfaction of the Principal Agent and/or Quantity Surveyor shall be borne by the Contractor.</p> <p>F: ..... V: ..... T: .....</p>	Item		
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122	<p>C22. Media Releases</p> <p>All rights of publication of articles in the media, together with any advertising relating to, or in any way connected with this project shall vest in the Employer.</p> <p>The Contractor, together with his Sub-Contractor shall not, without the written consent of the Principal Agent, cause any statement or advertisement to be printed, screened or aired by the media.</p> <p>F: ..... V: ..... T: .....</p>	Item		
123	<p>C23. Guarantees and Maintenance Manuals</p> <p>The Contractor shall obtain and hand over to the Principal Agent on Practical Completion, all relevant guarantees, any operating and maintenance instruction manuals, data or instructions required by the Principal Agent or provided by manufacturer's, suppliers or Sub-Contractors.</p> <p>The Contractor shall ensure that all warranties and guarantees received are fully ceded to the Employer on Final Completion, failing which the release of the Construction Guarantee will be withheld until this is satisfactorily completed.</p> <p>F: ..... V: ..... T: .....</p>	Item		
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124	<p>C24. Occupational Health and Safety Act</p> <p>The Contractor shall for the duration of this contract be deemed to be the mandatory of the Council for the purposes of the Occupational Health and Safety Act, Act 85 of 1993, and he shall prior to taking occupation of the site satisfy the Council by means of written representations that he has fully complied with the relevant requirements of the said Act.</p> <p>Acceptance by the Council of the Contractors written representations in terms of the above shall constitute an agreement in writing to the arrangements and procedures between the parties to ensure compliance by the Contractor with the provisions of the Act referred to therein, for the purposes of Section 37(2) of the said Act.</p> <p>The Council shall at all times have the right to summarily suspend the performance of the Contractor hereunder pending compliance by the Contractor with any requirement, regulation and/or direction referred to. The Council shall be entitled to set-off against any amount owed by the Council to the Contractor hereunder any loss or damage suffered by it as a result of the suspension of the Contractor's performance in the circumstances envisaged above.</p> <p>The Tenderer shall price for all necessary items to comply with the Occupational Safety and Health Specification contained in Annexure 10 of these Bills of Quantities. Including Appointment of IAI as per Asbestos Regulations</p> <p>F: ..... V: ..... T: .....</p> <p><b>Carried to Collection</b></p> <p>Section No. 1 Bill No. 1 PRELIMINARIES <b>DEVELOPMENT BANK OF SOUTHERN AFRICA</b></p>	Item			
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The contractor will be required to take all dimensions affecting the existing building on the site and he will be held solely responsible for the accuracy of all such dimensions

Where existing screeds are described to be prepared for new floor finishes, the screeds are to be scraped clean of loose materials and glue and must be dry, dust free, clean, not contaminated with traces of grease or oils and primed with one coat "FloorworX No 33" bonding liquid and levelled with two coats "FloorworX Pavelite" smoothing compound all in accordance with the manufacturer's technical specifications

Any water supply pipes and other piping that may be met with 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

### Prices

Prices to take out and remove doors and frames shall be deemed to include for removing door stops, cabin hooks, etc and making good of holes

Prices for doors, windows, etc with frames where described as to be taken out shall be deemed to include for the removal of all beads, architraves, ironmongery, etc. Doors with frames which are to be re-fixed are to be provided with new architraves (architraves measured elsewhere)

Prices for doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be deemed to include for thorough overhauling before refixing, including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery if necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match the timber

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Prices for building up of openings in existing walls shall be deemed to include for levelling and preparing of cement screeds, pavings, granolithic, etc, for raising of masonry

Prices for making good of finishes shall be deemed to include making good of the masonry and concrete surfaces onto which the new finishes are applied

Old material to be carted away

Old material from the alteration, except where described to be re-used or handed over, as well as all rubbish, etc., must be regularly carted from the site and not be allowed to accumulate on or around the site

Old material not to be re-used

None of the old materials are to be used for new work except where specifically described being set aside for re-use

Dealing with hazardous material

All hazardous materials, e.g. Asbestos, etc. must be removed and disposed off site by a specialist firm as per government regulations and environmental laws.

**REMOVAL OF EXISTING WORK**

- 1 Allow for watering the works by spraying to prevent any nuisance from dust, etc and supply, erect and remove at completion all temporary dust screens, etc required
- 2 Allow for protecting all existing work liable to suffer damage (ie. walls, finishes, floors, windows, etc) from damage during the building operations, alterations, etc and make good all work damaged with new material to match existing to the approval of the principal agent
- 3 Allow for the assistance for moving the necessary furniture and materials to provide access to the work. Any furniture remaining in the rooms shall be properly protected and the contractor shall be responsible for any damages caused to such items

Item

Item

Item

**Carried to Collection**

R

Section No. 2

Bill No. 1

ALTERATIONS

**DEVELOPMENT BANK OF SOUTHERN AFRICA**

Kwazulu Natal Department of Education  
Asbestos Replacement  
Prince Dabulamanzi Primary School

4	Allow for moving four existing park home classrooms sizes 7.0 x 7.0m with lean to verandah 1.5m wide supported with 3 support posts to each parkhome. The classroom are to be moved within site as per the position on the site plan drawing number 9005-003-GGL-0017 accompanying this document to provide access to the work and to be later moved to a site to be identified by the client within 100km radius from the school. Any furniture remaining in the rooms shall be properly protected and the contractor shall be responsible for any damages caused to such items		Item		
5	Allow for relocation of playground and re-assemble in new area to be identified by the principal agent		Item		
	<u>Breaking up and removing mass concrete, etc</u>				
6	100mm Thick surface bed	m <sup>2</sup>	277		
7	130mm Thick V-drain channels	m <sup>2</sup>	629		
	<u>Breaking down and removing brickwork etc</u>				
8	Half brick wall in beam filling	m <sup>2</sup>	179		
	<u>Taking out and removing precast concrete, etc</u>				
9	Kerbing, including backing mass concrete	m	101		
	<u>Taking out and removing doors, windows, etc including thresholds, sills, etc from brickwork to remain (building up or altering openings elsewhere) (Contractor to note that all material to remain property of the Department)</u>				
10	Timber single door and frame 0.81 x 2.03m high overall from 110mm brick wall	No	10		
11	Timber single door and timber frame 0.88 x 1.60m high overall from 110mm brick wall	No	44		
12	Timber single door and steel frame 0.88 x 2.06m high overall from 230mm brick wall	No	37		
13	Window not exceeding 2,5m2 from brickwork	No	238		
<b>Carried to Collection</b>				R	
Section No. 2					
Bill No. 1					
ALTERATIONS					
DEVELOPMENT BANK OF SOUTHERN AFRICA					

Kwazulu Natal Department of Education  
Asbestos Replacement  
Prince Dabulamanzi Primary School

Taking down and removing roofs, floors, panelling, ceilings, partitions, etc

Note: Tenderers are to comply with the Occupational Health and Safety Act - Asbestos Regulations.  
Tenderers are to allow for all specialist equipment, tools, signage, etc. deem necessary for the safe removal and disposal of all asbestos.

14	Remove double pitch roof with two gable ends, including all trusses, wall plate and purlins, asbestos roof sheeting and ridge capping	m <sup>2</sup>	2 750
15	Asbestos roof sheeting and purlins	m <sup>2</sup>	409
16	Fibre cement or wooden fascias and barge boards	m	616
17	Timber beams on brackets above timber columns including preparing to receive new beams (New beams measured elsewhere)	m	225
18	Gypsum plasterboard ceilings, including cornices, timber bandering, etc	m <sup>2</sup>	1 937
<u>Take out/off and remove sundry metalwork</u>			
19	Steel balustrades 1.10m high from concrete stairs, landings, etc including making good granolithic finish	m	35
20	Steel single gate and frame size 0.97 x 2.25m high bolted to brickwork, including making good brickwork	No	10
21	Steel double gate and frame size 1.66 x 2.25m high bolted to brickwork, including making good brickwork	No	1
22	420mm Wide rectagrid cover over channels including preparation for new (New measured elsewhere)	m	42
23	100 x 50mm Posts 2.10m high including base plate and bolts	No	78
24	100 x 50mm beams	m	82

**Carried to Collection**

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Section No. 2

Bill No. 1

ALTERATIONS

**DEVELOPMENT BANK OF SOUTHERN AFRICA**

Section No. 2  
Bill No. 1  
ALTERATIONS  
**DEVELOPMENT BANK OF SOUTHERN AFRICA**

R

Sundries

### Preparation to existing vertical surfaces

## MAKING GOOD OF FINISHES, ETC.

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Kwazulu Natal Department of Education  
Asbestos Replacement  
Prince Dabulamanzi Primary School

	<u>Making good cement plaster</u>				
47	Making good to existing plastered walls with polymer plaster and repaint (paint measured elsewhere)	m <sup>2</sup>	3 381		
48	Making good to existing plastered walls around windows	m <sup>2</sup>	132		
49	Chase out plaster cracks to form recess 25mm wide and 20mm deep, and fill with 1:4 cement mortar, including floating up smooth to match existing	m	27		
	<u>Making good external cement plaster</u>				
50	Chase out plaster cracks to form recess 25mm wide and 20mm deep and fill with a suitable flexible filler for cracks up to 1mm wide and plaster and paint walls	m	101		
51	Chase out plaster over area 300mm wide on either sides of cracks and fix galvanised chicken wire to brickwork over stripped area and make good with plaster to all cracks 2-4mm wide (Paintwork measured elsewhere)	m	85		
52	Cracks 5mm or greater:- Chase out plaster over area 600mm wide on either sides of cracks, rake and clean out crack of all friable plaster. use angle grinder to cut slot in the brick course to accept a 3mm galvanised steel wire looped at each end. The slot is to be cut a minimum depth of 20mm into brickwork, extending a minimum of 500mm beyond the crack at either side, repeated at an interval of 150mm along the length of the crack. Secure looped ends of the galvanised wire into sound brickwork by means of wall plug or Hilti-nail over a minimum depth of 50mm into sound brickwork. Inject the crack with suitable epoxy filler and fill cut slot containing the galvanised rod with epoxy and make good plaster (paintwork measured elsewhere)	m	41		
	<u>Make good face brickwork</u>				
53	Faced brickwalls where 110mm screen walls have broken off	m <sup>2</sup>	9		
<b>Carried to Collection</b>				R	
Section No. 2					
Bill No. 1					
ALTERATIONS					
DEVELOPMENT BANK OF SOUTHERN AFRICA					

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Amount  
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Filling

Notwithstanding the reference to prescribed multiple handling in clause 1 page 10 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material

Testing

Prices for filling are to include for all necessary density and other tests

**SITE CLEARANCE ETC**

Site clearance

1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m <sup>2</sup>	661
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m <sup>2</sup>	661

**EXCAVATIONS**

Excavations in earth not exceeding 2m deep

3	Reduce levels under floors	m <sup>3</sup>	304
4	Trenches	m <sup>3</sup>	11

**EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER (PROVISIONAL)**

Extra over bulk excavations in earth for excavations in

5	Soft rock	m <sup>3</sup>	29
6	Hard rock	m <sup>3</sup>	14

**CARTING AWAY**

**Carried to Collection**

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Section No. 2

Bill No. 2

EARTHWORKS

DEVELOPMENT BANK OF SOUTHERN AFRICA







Section No. 2  
Bill No. 3  
CONCRETE, FORMWORK AND REINFORCEMENT  
**DEVELOPMENT BANK OF SOUTHERN AFRICA**

Amount  
R

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15MPa/19mm concrete

<b><u>TEST CUBES</u></b>							
7	Allow for all necessary concrete test cubes size 150 x 150 x 150mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the principal agent			Item			
<b><u>CONCRETE SUNDRIES</u></b>							
<u>Wood float surface treatment to finished face of concrete</u>							
8	Surface beds	m <sup>2</sup>	290				
<u>Steel trowel surface treatment to finished face of concrete</u>							
9	Surface beds, slabs, etc to falls	m <sup>2</sup>	43				
<u>(WORKGROUP NO. 111)</u>							
<b><u>SMOOTH FORMWORK</u></b>							
<u>Smooth formwork to sides</u>							
10	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	343				
<b><u>MOVEMENT JOINTS ETC</u></b>							
<u>Saw cut joints</u>							
11	Form 3 x 40mm saw cut to top of concrete within 12 hours of pouring. Allow to cure for 7 days then ream out to form 13mm deep and 6mm wide recess	m	116				
<u>Expansion joints with softboard between vertical concrete surfaces</u>							
12	10mm Joints not exceeding 300mm high along edges of surface beds	m	18				
<u>(WORKGROUP NO. 114)</u>							
<b>Carried to Collection</b>						R	
Section No. 2							
Bill No. 3							
CONCRETE, FORMWORK AND REINFORCEMENT							
DEVELOPMENT BANK OF SOUTHERN AFRICA							

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Amount  
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FACE BRICKWORK

General

Bricks shall be ordered timeously to obtain uniformity in size and colour

Pointing

Descriptions of recessed pointing to face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

PAVINGS

Joints

Pavings, etc, shall, except for crazy paving, be laid with continuous joints in both directions

Cutting

Descriptions of all pavings shall be deemed to include for all straight cutting and circular cutting around pipes, etc not exceeding 150mm diameter

MISCELLANEOUS

Bagging of masonry surfaces

Bagging of masonry surfaces shall be of the mortar as described rubbed onto surfaces with hessian cloth to provide a fair finish. The finished surface shall be free of penetrations or pitted openings or large protruding lumps of mortar. The finish shall be to the principal agent's approval

FOUNDATIONS

Brickwork of NFX bricks (14 MPa nominal compressive strength) in cement mortar

1	Half brick walls (Provisional)	m <sup>2</sup>	1
2	One brick walls (Provisional)	m <sup>2</sup>	20

**Carried to Collection**

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Section No. 2

Bill No. 4

MASONRY

DEVELOPMENT BANK OF SOUTHERN AFRICA





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Carried to Collection





Section No. 2  
Bill No. 7  
CARPENTRY AND JOINERY  
**DEVELOPMENT BANK OF SOUTHERN AFRICA**

Amount  
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Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes

Fixing

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete

Decorative laminate finish

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

**PREFABRICATED ROOF TRUSSES, ETC**

The following in plate nailed timber roof trusses with a pitch not exceeding 27,5°, from an approved supplier, delivered to site, hoisted into position, fixed and braced on timber wall plates

1	Double pitch timber truss type A, 5.80 x 1.36m high overall with 600mm eaves overhang projection on both sides	No	18
2	Double pitch timber truss type B, 7.00 x 1.36m high overall with 600mm eaves overhang projection on both sides	No	5
3	Double pitch timber truss type C, 7.00 x 1.36m high overall with 1200mm eaves overhang projection on both sides	No	4
4	Double pitch timber truss Type D, 11.00 x 1.36m high overall with 600mm eaves overhang projection on one side and 2100mm at the front side over walkways	No	174
<u>Sawn softwood grade M4</u>			
5	38 x 76mm Wall plates including bed level in cement mortar	m	507
6	50 x 76mm Purlins	m	2 558
7	50 x 76mm Cross bracing (provisional)	m	147

**Carried to Collection**

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Section No. 2

Bill No. 7

CARPENTRY AND JOINERY

**DEVELOPMENT BANK OF SOUTHERN AFRICA**

Kwazulu Natal Department of Education  
Asbestos Replacement  
Prince Dabulamanzi Primary School

8	38 x 114mm Longitudinal bracing (provisional)	m	507
9	38 x 152mm Beams, etc bolted	m	192
10	50 x 228mm Beams, etc bolted	m	225
	<u>Wrot softwood Grade M4</u>		
11	38 x 114mm Barge rail	m	125
	<b><u>ROOF SUNDRIES</u></b>		
12	Teco two way hurricane clips between trusses and purlins	No	2 412
13	Two coats creosote on sawn timbers	m <sup>2</sup>	493
14	Wrought faces on sawn timbers	m <sup>2</sup>	9
	<b><u>EAVES, VERGES, ETC</u></b>		
	<u>"Everite" medium density plain nutec fibre cement</u>		
15	12 x 225mm Fascia boards (041-202) including aluminium H-profile jointing strips (685-195)	m	518
16	80 x 200mm Socketless barge boards including aluminium H-profile jointing strips (685-187)	m	125
	<b><u>SKIRTINGS</u></b>		
	<u>Wrot Meranti</u>		
17	19 x 70mm skirting plugged with and including 19mm quadrant bead planted on at junction with floor	m	985

**FRAMED DOORS, ETC.**

All framed and ledged batten doors and combination doors, where battens are utilised, shall only be of construction acceptable to the principal agent, i.e. mortice and tennon where the tennon is exposed on the outside edges of styles and where the tennon is wedged to form a dovetailed shape.

**Carried to Collection**

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Section No. 2  
Bill No. 7  
CARPENTRY AND JOINERY  
**DEVELOPMENT BANK OF SOUTHERN AFRICA**

	<u>Saligna Blaco doors hung to steel frames</u>			
18	44mm Framed, ledged and braced batten door 0,81 x 2,03m high of 40 x 110mm top rail and stiles, 20 x 150mm middle ledge, 20 x 225mm bottom rail and 20 x 1110mm braces filled in with 20mm V-jointed one side boarding, 44 x 70mm grooved and splayed weatherboard and 3mm plywood panel to internal face	No	36	
	<u>Solid chipcore flush doors with commercial veneer on both sides hung to steel frames</u>			
19	40mm Door 0,81 x 2,03m high	No	10	
	<u>Wrought meranti doors, etc</u>			
20	44mm Framed door 0,81 x 1.60m high of 44 x 144mm top rail and stiles and 44 x 219mm bottom rail in single pane rebated all round, including 19 x 19mm glazing beads on one side	No	44	
	<b><u>FRAMED FRAMES, ETC</u></b>			
	<u>Wrought meranti</u>			
21	69 x 107mm Rebated and splayed frames, plugged	m	141	
	<b><u>JOINERY FITTINGS</u></b>			
	<u>General</u>			
	The following joinery fittings are measured as complete units i.e. the components of the units are not separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative laminates, silicone pointing against adjacent surfaces, ironmongery, metalwork, glass, paint or varnish finishes, etc			
	<u>"Grey Granite" countertops</u>			
22	To supply and install 30mm counter top size 3070 x 600mm, including cleats and supports	No	1	
	<b>Carried to Collection</b>			R
	Section No. 2 Bill No. 7 CARPENTRY AND JOINERY DEVELOPMENT BANK OF SOUTHERN AFRICA			



Shelving:

26	430 x 5 245 x 1790mm High melamine clad PG Bison Bison board V313 shelf with impact edging to exposed edges, side panels, white melamine faced masonite back panel including 150mm high plinth as per detail 9005-003-BAR-0114- Revision T1 - Admin & Computer Room accompanying this document	No	2
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### "Flortime Premier" pinning boards

R

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**BILL NO 8**

(WORK GROUP NO. 129)

## SUPPLEMENTARY PREAMBLES

Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted", the bolts are measured elsewhere

9mm Thick "Rhino" gypsum plasterboards in 1.2m wide panels with open joints for and including pre-primed H-section cover strips neatly mitred at intersections

- |   |   |
|---|---|
| 1 | Ceilings including 38 x 50mm brander at 400mm centres in one direction securely spiked to roof timbers (elsewhere)  |
| 2 | Extra over ceilings for 600 x 600mm trap door of 44 x 44mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening |

### CORNICE, ETC

Section No. 2  
Bill No. 8  
CEILINGS, PARTITIONING AND ACCESS FLOORING E  
**DEVELOPMENT BANK OF SOUTHERN AFRICA**

Rate

Amount  
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m <sup>2</sup>	1 950
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No	12
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Item No		Quantity	Rate	Amount R
<b><u>SECTION NO. 2</u></b>				
<b><u>BILL NO 10</u></b>				
<b><u>IRONMONGERY</u></b>				
(WORK GROUP NO. 132)				
The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)				
<b><u>HINGES, BOLTS, ETC</u></b>				
<u>Approved</u>				
1	100mm Steel hinge	No	180	
	"Union Assa Abloy"			
2	CZ80941SC bathroom W/C indicator bolt with keep fixed to metal	No	44	
<b><u>LOCKS, ETC</u></b>				
	"Union Assa Abloy"			
3	50mm UN335002006300 padlock	No	37	
4	Solid Art 390/313 four lever mortice lockset with satin chrome plated handles	No	46	
<b><u>DOOR CLOSERS</u></b>				
	"Assa Abloy" or other approved			
5	DC200 R&P closer EN2 -4SIL	No	4	
<b><u>SIGNAGE</u></b>				
Carried to Collection				R
Section No. 2 Bill No. 10 IRONMONGERY <b>DEVELOPMENT BANK OF SOUTHERN AFRICA</b>				

<u>Approved</u>			
6	290 x 290mm GA11 Male sign	No	4
7	290 x 290mm GA11 Female sign	No	4
8	290 x 290mm GA22 Paraplegic toilet sign	No	4
9	290 x 290mm FB1 Direction sign	No	6
10	290 x 290mm FB2 Fire extinguisher sign	No	6
11	290 x 290mm FB3 Fire hose sign	No	5
12	290 x 290mm GA3/GA4 running man sign	No	6
13	290 x 290mm GA33 exit sign	No	6
14	38mm High plastic letter or numeral	No	21
15	50 x 400 x 3mm Thick perspex plate with nine 40mm high engraved and painted letters or numerals	No	6
<b><u>BATHROOM FITTINGS</u></b>			
<u>"Serra" stainless steel</u>			
16	TR2 SD1310 toilet roll holder, plugged	No	44
17	SD1226 soap dispenser, plugged	No	8
18	SD1127 wall bin, plugged	No	8
<b><u>SUNDRIES</u></b>			
<u>"Assa Abloy" or other approved</u>			
19	RH7024 ART 500B30 Patent screws and nuts	No	32
20	87001SS Floor door stop satin SS	No	128
21	SS8025SS Hat and Coat Hook with buffer	No	44
<b>Carried to Collection</b>			
Section No. 2			
Bill No. 10			
IRONMONGERY			
<b>DEVELOPMENT BANK OF SOUTHERN AFRICA</b>			



'Castor & Ladder' or other approved 6 x 3 steel stationery cupboards in Ivory Karoo finish or other approved

Wall mounted vitreous enamel writing boards as SANS  
CKS-2014



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Kwazulu Natal Department of Education  
Asbestos Replacement  
Prince Dabulamanzi Primary School

5	"Hilti" HLC 12 x 55/15 expansion anchor and bolt	No	140
	<u>Welded portal columns in single lengths with flat base, top, bearer and connection plates</u>		
6	PC100 x 50mm x 10.1kg/m Channel posts 2.10m high with 100 x 6mm x 5.18kg/m flat bar base plate 100mm long twice holed for bolts and welded on	kg	1 654
7	PC100 x 50mm x 10.1kg/m Channel beams 2.10m long welded on	kg	827
8	Extra over for mitred L-intersection	No	78
9	50 x 6mm x 2.36kg/m Flat bar cleat 150mm girth, once bent across flat, once holed for bolt and welded on	No	78
10	"Hilti" HLC 16 x 60/10 expansion anchor and bolt	No	78
	<u>Roof brackets, etc</u>		
11	U-shaped bracket formed of 40 x 6mm x 2.12kg/m flat bar 350mm girth, twice bent across flat and twice holed for bolts (bolts elsewhere)	No	77
12	U-shaped bracket formed of 40 x 6mm x 2.12kg/m flat bar 700mm girth, twice bent across flat and twice holed for bolts (bolts elsewhere)	No	182
13	Bolts	kg	14
	<b><u>GALVANISED STEEL SCREENS AND GATES</u></b>		
	<u>Welded and bolted safe storage screens and gates</u>		
14	50 x 50 x 3mm cold rolled angle section bearer welded to lug and built in	m	190
15	Extra for mitred and welded angle	No	74

**Carried to Collection**

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Section No. 2  
Bill No. 11  
METALWORK  
**DEVELOPMENT BANK OF SOUTHERN AFRICA**

Kwazulu Natal Department of Education  
Asbestos Replacement  
Prince Dabulamanzi Primary School

16	Single gate size 0.97 x 2.25m high formed of 50 x 50 x 2.0mm x 3.03kg/m square hollow section frame, and gate formed of 60 x 60 x 2mm rectangular tube framing all round mitred and welded at angles with two 40 x 6mm flat section horizontal intermediate rails with ends welded to framing and with five 19mm diameter rod vertical bars framed through intermediate rails with ends welded to framing, fitted with a pair of suitable hinges bolted to wall with and including two 16mm expansion bolts and the gate with hasp and staple and 12mm drop bolt welded on (Padlock measured elsewhere)	No	36		
17	Double gate 1.66 x 2.25m high, each leaf of 50 x 50 x 2.0mm x 3.03kg/m square hollow section frame and 75 x 25 x 2.0mm x 3.03kg/m rectangular hollow section horizontal middle rail, filled in with 25 x 25 x 2.0mm x 1.47kg/m square hollow section vertical pales at 150mm centres, fitted with a pair of suitable hinges bolted to wall with and including two 16mm expansion bolts and the gate with hasp and staple and 12mm drop bolt welded on (Padlock measured elsewhere)	No	1		
<b><u>GALVANISED STEEL FLOORS, ETC</u></b>					
<u>Floor duct covers</u>					
18	420mm Wide rectagrid type RS 40 with 50 x 4.5 banding and 60 x 4mm thick angles with metal lugs every 500mm centres	m	42		
<b><u>HOT DIPPED GALVANIZED PRESSED STEEL DOOR FRAMES</u></b>					
<u>1,2mm Rebated frames suitable for half brick walls</u>					
19	Frame for door 813 x 2032mm high	No	10		
<u>1,2mm Double rebated frames suitable for one brick walls</u>					
20	Frame for door 813 x 2032mm high	No	36		
<b>Carried to Collection</b>				R	
Section No. 2					
Bill No. 11					
METALWORK					
DEVELOPMENT BANK OF SOUTHERN AFRICA					

**HOT DIP GALVANISED STEEL WINDOWS, DOORS,  
ETC.**

A sample window shall be submitted for approval prior to placing the complete order

Standard windows with heavy duty solid brass  
ironmongery with opening sections fitted with standard  
burglar bars

21	Window type D4H, 1511 x 1245mm high	No	3
22	Window type D52H, 1022 x 1540mm high	No	167
23	Window type D22H 2000 x 1245mm high	No	2
24	Window type D1H 533 x 1245mm high	No	1
25	Window type ZNE1 654 x 654mm high	No	1
26	Window type E6F 305 x 680mm high	No	48
27	Window type C2 1020 x 949mm high	No	1
28	Window type 2BH 1143 x 457mm high	No	14

**Carried to Collection**

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Section No. 2

Bill No. 11

METALWORK

**DEVELOPMENT BANK OF SOUTHERN AFRICA**

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<u>EXTERNAL PLASTER</u>			
<u>Cement plaster class II on masonry</u>			
6	On walls	m <sup>2</sup>	207
7	On narrow widths	m <sup>2</sup>	11
<b>Carried to Collection</b>			R

Section No. 2

Bill No. 12

PLASTERING

**DEVELOPMENT BANK OF SOUTHERN AFRICA**

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Carried to Collection

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Section No. 2  
Bill No. 14  
PLUMBING AND DRAINAGE  
**DEVELOPMENT BANK OF SOUTHERN AFRICA**

Amount  
R

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Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:

SANS 1200 L : Medium-pressure pipelines, SANS 1200 LD : Sewers and SANS 1200 LE : Stormwater drainage

Pipe trenches, etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SANS 1200 DB : Earthworks (Pipe trenches)

Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SANS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding

#### uPVC pipes and fittings

Drainage pipes and fittings shall be jointed and sealed with butyl rubber rings

Sanitary plumbing pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

#### Gratings, covers, etc

Gratings, covers, etc shall be as manufactured by "Saint-Gobain", unless otherwise described

#### French drains

Descriptions of french drains shall be deemed to include for battered sides and sloping bottoms with inlet chamber size 300 x 300mm internally under inlet pipe, from bottom of drain to top of pipe, formed of loosely packed, rough, hard stone walls and covered with precast concrete slab size 600 x 600 x 100mm thick and the rest of the drain filled in to the same height with similar stone graded from 300mm diameter at bottom to 50mm diameter at top, covered with galvanised corrugated iron sheets treated on both sides with bituminous paint and 300mm earthfilling over

**Carried to Collection**

Section No. 2

Bill No. 14

PLUMBING AND DRAINAGE

**DEVELOPMENT BANK OF SOUTHERN AFRICA**

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uPVC pressure pipes and fittings

Pipes for water supply shall be of the class described

Pipes of 42mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings

Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints

Copper pipes

Pipes shall be hard drawn and half-hard pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016

Fixing of pipes

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for :

- casting in, building in, chasing in and fixing to walls, etc, including chasing; or
- placing in ground or filling under solid floors, including necessary excavation, backfilling and ramming; or
- suspending not exceeding 1m below suspension level

Reducing fittings

Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm, only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm, all sizes are given and no claim for extra bushes, reducers, etc will be entertained

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Stainless steel basins, sinks, wash troughs, urinals, etc

Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be type 304 (18/8)

Flush pans

Flush pans shall have straight or side outlets and "P" or "S" traps as necessary

Geyser installations

Geyser installations shall comply with SANS 10254

General

Descriptions of pipes laid in and including trenches, sumps, catchpits, junction boxes, inspection chambers, french drains, septic tanks and the like shall be deemed to include for excavations, bedding of pipes, risk of collapse, keeping free of water, a dewatering system for removal of seepage water and water from other subterranean sources in the excavations designed and executed by the contractor, backfilling, compaction to a minimum of 93% modified AASHTO density and disposal of surplus material

Descriptions of sumps, catchpits, junction boxes, inspection chambers and the like shall be deemed to include reinforcement, step irons and channels where applicable

Descriptions for jointing of new to existing pipes shall be deemed to include searching for the existing pipe, exposing if necessary, cutting into, jointing and necessary fittings

Descriptions of all sanitary fittings shall be deemed to include for silicone sealant pointing between the fittings and finished wall surfaces

Descriptions of copper service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to pipes

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Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends					
<b><u>RAINWATER DISPOSAL</u></b>					
<u>"Marley Vynadeep" uPVC</u>					
1	110mm Half round eaves gutters	m	655		
2	Extra over for stopped end	No	39		
3	Extra over for outlet for 75mm diameter pipe	No	68		
4	75mm Diameter rainwater pipes	m	219		
5	Extra over for bend	No	136		
6	Extra over for shoe	No	68		
<u>(WORK GROUP NO 110)</u>					
<b><u>STORMWATER CHANNELS</u></b>					
<u>In-situ concrete channels</u>					
7	Concrete 20MPa/19mm, Ref. 193 mesh reinforcement, in-situ "V"-shaped open surface water channel 900mm wide with minimum 75mm thickness in the centre and 100mm at the edges to form a 25mm deep dish, cast to falls in lengths not exceeding 2000mm, jointed in 3:1 cement mortar finished smooth with a wood float on all exposed surfaces including all necessary shallow excavation, well ramming ground under, spreading and levelling surplus excavated material and formwork	m	699		
8	Extra over 900mm "V"-shaped channel for angles, intersections and ends	No	56		
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9	Triangular shaped concrete spill basin size 900mm at head, 1500mm at base end and 1500mm long, formed of 200mm thick concrete base with concrete upstand size 100 x 100mm high along two sides including all excavations, formwork and backfilling, the top of the base inlaid with sixteen concrete bricks protruding 50mm above the surface of the concrete and loose stones of 100 to 150mm diameter at the base of the spill basin for a width of 500mm	No	6		
<b><u>SLEEVES FOR ELECTRICAL AND TELEPHONE CABLES</u></b>					
<u>Class 6 modified uPVC pipes, including 1.6mm galvanised steel draw wires</u>					
10	110mm Pipes laid in and including trenches not exceeding 1m deep	m	68		
11	Set of two 110mm pipes laid in and including trenches not exceeding 1m deep	m	68		
<u>Extra over class 6 modified uPVC pipes for modified uPVC fittings</u>					
12	110mm 45 Degree bend	No	3		
13	110mm 90 Degree bend	No	2		
<u>Inspection chambers (covers elsewhere)</u>					
14	Inspection chamber 900 x 900mm and not exceeding 0.75m deep internally	No	4		
<u>Cast iron covers</u>					
15	600 x 600mm x 82kg Type 9B single seal cover and frame	No	4		
<b><u>SOIL DRAINAGE</u></b>					
<u>Class 34 uPVC pipes</u>					
16	110mm Pipes vertically or ramped to rodding eyes, etc (no excavations)	m	51		
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17	110mm Pipes laid in and including trenches not exceeding 1m deep	m	102	
18	110mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	8	
	<u>Extra over class 34 uPVC pipes for uPVC fittings</u>			
19	110mm Bend	No	51	
20	110mm Junction	No	51	
21	110mm Access pipe	No	51	
22	110mm Access bend	No	51	
	<u>uPVC gulleys</u>			
23	110mm Gully not exceeding 0.75m deep	No	7	
	<u>Inspection chambers (covers elsewhere)</u>			
24	Inspection chamber 450 x 600mm and exceeding 0.75m and not exceeding 1.00m deep internally	No	9	
	<u>"National Manhole Covers" polymer concrete covers</u>			
25	450 x 600mm x 63kg Heavy duty cover and frame	No	9	
	<u>Sundries</u>			
26	Excavate for, locate, take up and remove 110mm soil drain pipes not exceeding 1m deep, including backfilling, ramming, etc	m	33	
27	Concrete encasing to 110mm horizontal pipes	m	4	
28	110mm uPVC "ABC" cleaning eye	No	7	
29	Cut into side of existing inspection chamber for and connect 110mm pipe, including inserting 110mm channel junction and making good concrete benching	No	1	
<b>Carried to Collection</b>				
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30	Allow for unblock of sewer line along length of the sewer on site as per areas identifies during construction to the approval of the principal agent	m	10	
31	Allow for unblocking drain traps, etc as identifies during construction to the approval of the principal agent	No	4	
32	Allow for testing of all the above mentioned items as described to the complete satisfaction of the Principal Agent and for replacing any defective work at the Contractor's expense and re-testing until found to be perfect			Item
<b><u>SANITARY PLUMBING</u></b>				
<u>uPVC pipes</u>				
33	50mm Pipes	m	14	
34	110mm Pipes	m	75	
<u>Extra over uPVC pipes for fittings</u>				
35	50mm Stop end	No	8	
36	50 x 32mm BSP adaptor	No	8	
37	110 x 50mm Eccentric reducer	No	8	
38	50mm Bend	No	34	
39	50mm Junction	No	6	
40	110 x 50mm Reducing junction	No	1	
41	50mm Access bend	No	16	
42	50mm Access junction	No	17	
<b>Carried to Collection</b>				R
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Item

### Class 10 HDPE pipes

m

15

## m

22

No

8

No

6

No

4

## m

6

m

96

m

8

No

21

No

64

R

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54	28mm Fittings	No	13	
	<u>Extra over class 1 copper pipes for brass compression fittings</u>			
55	15mm Fittings	No	58	
56	22mm Fittings	No	128	
57	28mm Fittings	No	13	
	<u>Sundries</u>			
58	Unreinforced concrete thrust blocks at bends, tees, etc, including necessary extra excavation, formwork, etc	m³	2	
59	150 x 150mm Type 11A cast iron stopcock box, including brick chamber below not exceeding 0.50m deep internally	No	1	
60	300 x 200mm Type 10A cast iron meter box, including brick chamber below not exceeding 0.50m deep internally	No	1	
61	450 x 450mm Valve chamber not exceeding 0.75m deep internally (cover and frame elsewhere)	No	1	
62	450 x 450 x 28.5kg Type 14B cast iron cover and frame	No	1	
63	Check and clean drinking stand pipes including servicing/ replacement of taps	No	1	
64	Allow for testing of all the above mentioned items as described to the complete satisfaction of the Principal Agent and for replacing any defective work at the Contractor's expense and re-testing until found to be perfect			Item
	<u><b>WATER SUPPLIES TO FIRE APPLIANCES</b></u>			
	<u>Class 16 modified uPVC pipes</u>			
65	110mm Pipes laid in and including trenches	m	25	
	<b>Carried to Collection</b>			R
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	<u>Extra over class 16 modified uPVC pipes for modified uPVC fittings</u>				
66	110mm 90 Degree bend	No	5		
	<u>Extra over class 16 modified uPVC pipes for SG iron fittings</u>				
67	110mm End cap	No	5		
68	110mm Equal tee	No	3		
	<u>Black medium quality (SANS 62/BS 1387) mild steel pipes with one coat factory applied red oxide primer and one final coat of red gloss enamel paint</u>				
69	40mm Pipe	m	6		
	<u>Extra over black medium quality (SANS 62/BS 1387) mild steel pipes for steel fittings, including one coat factory applied red oxide primer and one final coat of red gloss enamel paint</u>				
70	100 x 40mm Reducing tee	No	5		
	<u>Class 1 copper pipes</u>				
71	42mm Pipes laid in and including trenches	m	2		
	<u>Extra over class 1 copper pipes for brass compression fittings</u>				
72	42mm Tee	No	5		
	<u>Sundries</u>				
73	Unreinforced concrete thrust blocks at bends, tees, etc, including necessary extra excavation, formwork, etc	m <sup>3</sup>	0.4		
74	225 x 225mm Type 11B cast iron stopcock box, including brick chamber below not exceeding 0.50m deep internally	No	1		
75	375 x 300mm Type 10C cast iron meter box, including brick chamber below not exceeding 0.50m deep internally	No	1		
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76	450 x 450mm Valve chamber not exceeding 0.75m deep internally (cover and frame elsewhere)	No	1		
77	450 x 450mm x 28.5kg Type 14B cast iron cover and frame	No	1		
78	Allow for testing of all the above mentioned items as described to the complete satisfaction of the Principal Agent and for replacing any defective work at the Contractor's expense and re-testing until found to be perfect			Item	
<b><u>SANITARY FITTINGS</u></b>					
<b><u>"Franke" stainless steel</u></b>					
79	"Trendline 721" double end bowl sink 1.20 x 0.54m wide, on cupboard (cupboard elsewhere)	No	2		
80	Model WB001 wash hand basin with tiling key	No	4		
81	Model WB003 range of three wash hand basins	No	8		
<b><u>'Franke (t/a Citimetal)' grade 304 (18/10) stainless steel Urinals</u></b>					
82	'Franke purpose made TU101' curved back urinal 5360mm wide to fit between walls, and tiling key to back and both ends, with and including four concealed sparge pipe with four flushpipe coupling and 70mm diameter end outlet with grating complete with built in flushing tank, 12mm adjustable dripcock, brass "P" trap and hinged domical grating.	No	4		
<b><u>"Vaal"</u></b>					
83	VAA-702303 "Hibiscus wall hung basin with fixations VAA-8448Z0	No	1		
84	VAA-431500 "Parktown" top inlet pan	No	46		
85	"Protea" low level paraplegic suite comprising washdown pan and 9 litre cistern with side-flush lever	No	1		
<b>Carried to Collection</b>				R	
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86	"Orchid" top inlet wall hung washdown pan with cradle bracket and legs (flush valve elsewhere)	No	4		
87	VAA-705127 "Sweetpea BI" back inlet wall hung bowl urinal with grating	No	1		
	<u>"Libra"</u>				
88	1.70m Long "Capri" acrylic bath	No	1		
	<b><u>TANKS, ETC</u></b>				
	<u>"JoJo" polyethylene</u>				
89	5000 Litre "Jojo" low profile rainwater tank complete with access lid with inlet hole placed in position on concrete slab and anchored with and including four 7mm diameter galvanized steel chain anchors fitted into garden hose protective sleeves with top end of chain secured to tank and bottom end secured to and including 10mm diameter x 650mm girth U-shaped high tensile steel securing lugs, bent to detail and cast in to concrete plinth. Tank to be filled to half before being built in	No	6		
90	Outlet union for 50mm uPVC pipe, including hole through tank	No	6		
	<b><u>ELECTRIC WATER HEATERS</u></b>				
	<u>"Kwikot"</u>				
91	150 Litre "600 Dual" standard floor/wall mounted electric water heater	No	1		
92	"Kwiktray" horizontal polyethylene drip tray for 150 liter geyser with outlet, including timber bearers	No	1		
	<u>"Zip"</u>				
93	5 Litre "Hydroboil" white epoxy powder coated instant boiling water unit, including "Adapatap SO-4" overflow for installation onto sink with C-13-350 flexible connector	No	1		
	<b><u>TAPS, VALVES, ETC</u></b>				
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"Flexitrap" rubber

108	32mm Plain "P" or "S" trap	No	29
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109	40mm Plain "P" or "S" trap	No	2
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110	40mm Plain bath combination trap with overflow outlet and pipe	No	1
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111	40 x 300mm Double bowl wash trough or sink combination with "P" trap	No	8
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"Cobra Watertech"

112	75mm VA3.113CP urinal domical grating	No	4
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113	32mm 345/40CP bottle trap	No	1
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## FIRE APPLIANCES, ETC

"Chubb"

114	"Everyway" hose reel complete with 30m hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	5
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115	4.5kg Dry chemical powder fire extinguisher on and including a painted backing board	No	6
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## "Woodlands Fire"

116	100mm "WHE" hydrant, including flanges, 100mm duck foot bend, bolts, gaskets, etc	No	2
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117	100mm "WNV" flanged non-return valve	No	2
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"Kevcor" plastic fire boxes

118	FB9 fire extinguisher box	No	6
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119	HR hose reel box	No	5
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Carried to Collection

R

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PLUMBING AND DRAINAGE

DEVELOPMENT BANK OF SOUTHERN AFRICA

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Amount  
R

R



Previously painted wood surfaces

Surfaces shall be thoroughly cleaned down by scraping and sanding all loose and flaking paint. All dust and surface contamination are to be removed by wiping down. All exposed nail heads are to be punched in and primed with one coat metal primer. Holes, cracks and crevices shall be primed with wood primer, filled with wood stopping and finished smooth

Previously varnished/natural wood surfaces

Surfaces shall be thoroughly cleaned down with existing coatings removed by sanding and/or using paint remover. All residual paint remover and surface contamination are to be removed by washing down, allowed to dry and sandpapered to a uniformed surface. All exposed nail heads are to be punched in and primed with one coat metal primer. Holes, cracks and crevices shall be treated with woodcare pretreatment, filled with wood stopping and finished smooth

COLOURS

Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards

PAINTWORK, ETC TO NEW WORK ON

SMOOTH PLASTER OR CONCRETE SURFACES WITH

One coat alkali resistant plaster primer and two coats superior matt acrylic paint on

1	Internal walls	m <sup>2</sup>	44
2	Extra over for paintwork on components in the "Pastel" colour group for paintwork in the "Deep" colour group (Provisional)	m <sup>2</sup>	44
3	Ceilings	m <sup>2</sup>	14

**Carried to Collection**

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PAINTWORK

DEVELOPMENT BANK OF SOUTHERN AFRICA



<b><u>WOOD SURFACES WITH</u></b>					
<u>One coat wood primer and two coats super universal enamel paint on</u>					
14	Doors	m <sup>2</sup>	289		
15	Door frames ("White" colour group)	m <sup>2</sup>	35		
16	Extra over for paintwork on components in the "Pastel" colour group for paintwork in the "Deep" colour group (Provisional)	m <sup>2</sup>	324		
<u>Three coats suede woodcare ultra varnish on</u>					
17	Skirtings, rails, etc not exceeding 300mm girth ("Transparent" colour group)	m	985		
<b><u>PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK ON</u></b>					
<b><u>FLOATED PLASTER SURFACES WITH</u></b>					
<u>Two coats fine texture acrylic paint on work in poor condition on</u>					
18	Internal walls	m <sup>2</sup>	3 448		
<u>Two coats fine texture acrylic paint on work in poor condition on</u>					
19	External walls	m <sup>2</sup>	11		
<b><u>SMOOTH PLASTER OR CONCRETE SURFACES WITH</u></b>					
<u>Two coats fine texture acrylic paint on work in poor condition on</u>					
20	Ceilings	m <sup>2</sup>	14		
<b>Carried to Collection</b>				R	
Section No. 2					
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PAINTWORK					
DEVELOPMENT BANK OF SOUTHERN AFRICA					

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Quantity

Amount  
R

R

Carting away of excavated material

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

Working space

Working space for formwork to sides of bases, ground beams, etc is measured with the assumption that it will be required by the principal agent in certain cases. If it is not required, it will be adjusted as such in the final account

Filling

Notwithstanding the reference to prescribed multiple handling in clause 1 page 10 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material

Testing

Prices for filling are to include for all necessary density and other tests

**SITE CLEARANCE ETC**

Site clearance

1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m <sup>2</sup>	514
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m <sup>2</sup>	514

**REMOVAL OF TREES, ETC**

Take out and remove, grub up roots and fill in holes

3	Tree stump exceeding 200mm and not exceeding 500mm girth	No	1
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**Carried to Collection**

R

Section No. 3

Bill No. 1

EARTHWORKS

DEVELOPMENT BANK OF SOUTHERN AFRICA

4	Tree exceeding 500mm and not exceeding 1.00m girth	No	1		
5	Tree exceeding 1.00mm and not exceeding 1.50m girth	No	2		
6	Tree exceeding 1.50mm and not exceeding 2.00m girth	No	1		
7	Tree exceeding 2.00mm and not exceeding 2.50m girth	No	1		
<b><u>EXCAVATIONS</u></b>					
<u>Excavations in earth over sloping site</u>					
8	Open face excavations	m <sup>3</sup>	632		
<u>Excavations in earth not exceeding 2m deep</u>					
9	Reduce levels under floors	m <sup>3</sup>	34		
10	Trenches	m <sup>3</sup>	108		
11	Holes	m <sup>3</sup>	8		
<b><u>EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER (PROVISIONAL)</u></b>					
<u>Extra over bulk excavations in earth for excavations in</u>					
12	Soft rock	m <sup>3</sup>	78		
13	Hard rock	m <sup>3</sup>	39		
<b><u>CARTING AWAY</u></b>					
<u>Extra over all excavations for carting away</u>					
14	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m <sup>3</sup>	753		
<u>Risk of collapse of excavations</u>					
15	Sides of trench and hole excavations not exceeding 1,5m deep	m <sup>2</sup>	244		
<b>Carried to Collection</b>				R	
Section No. 3					
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EARTHWORKS					
DEVELOPMENT BANK OF SOUTHERN AFRICA					



Item

Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to a density of at least 95% Mod AASHTO maximum density

 $m^3$ 

44

 $m^3$ 

63

 $m^3$ 

690

 $m^3$ 

9

 $m^3$ 

26

 $m^2$ 

624

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DEVELOPMENT BANK OF SOUTHERN AFRICA

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Quantity

Amount  
R

R

DEVELOPMENT BANK OF SOUTHERN AFRICA

15MPa/19mm concrete

Item

### Wood float surface treatment to finished face of concrete

391

### Steel trowel surface treatment to finished face of concrete

123

## SMOOTH FORMWORK

302

### Saw cut joints

306

### Expansion joints with softboard between vertical concrete surfaces

55

R

DEVELOPMENT BANK OF SOUTHERN AFRICA

	<u>Expansion joints with softboard between vertical concrete and brick surfaces</u>				
16	10mm Joints exceeding 300mm high or wide  <u>(WORKGROUP NO. 114)</u>	m	305		
	<b><u>REINFORCEMENT</u></b>				
	<u>High tensile steel reinforcement to structural concrete work</u>				
17	Various diameter bars	t	0.79		
	<u>Fabric reinforcement</u>				
18	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m <sup>2</sup>	505		
19	Type 888 fabric reinforcement in concrete surface beds, slabs, etc	m <sup>2</sup>	8		
<b>Carried to Collection</b>					R
Section No. 3 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT DEVELOPMENT BANK OF SOUTHERN AFRICA					

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Quantity

Amount  
R

R

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Pointing

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

FACE BRICKWORK

General

Bricks shall be ordered timeously to obtain uniformity in size and colour

Pointing

Descriptions of recessed pointing to face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

MISCELLANEOUS

Bagging of masonry surfaces

Bagging of masonry surfaces shall be of the mortar as described rubbed onto surfaces with hessian cloth to provide a fair finish. The finished surface shall be free of penetrations or pitted openings or large protruding lumps of mortar. The finish shall be to the principal agent's approval

FOUNDATIONS

Brickwork of NFX bricks (14 MPa nominal compressive strength) in cement mortar

1	Half brick walls (Provisional)	m <sup>2</sup>	16
2	One brick walls (Provisional)	m <sup>2</sup>	14
3	One brick walls against softboard (Provisional)	m <sup>2</sup>	68

SUPERSTRUCTURE

**Carried to Collection**

R

Section No. 3

Bill No. 3

MASONRY

DEVELOPMENT BANK OF SOUTHERN AFRICA

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	<u>Brickwork of NFP bricks in cement mortar</u>				
4	Half brick walls	m <sup>2</sup>	57		
5	Half brick walls in beamfilling	m <sup>2</sup>	15		
6	One brick wall	m <sup>2</sup>	21		
7	One brick walls in beamfilling	m <sup>2</sup>	19		
8	One brick walls of two half brick skins bagged and sealed, including galvanised crimp wire wall ties (7 per square metre) laid staggered.	m <sup>2</sup>	219		
	<b><u>BRICKWORK SUNDRIES</u></b>				
9	Cement mortar filling between water tank and brick wall to support tank	m <sup>3</sup>	1		
10	Mortar bed on top of raking gable walls to form close joint with underside of roof sheeting	m <sup>2</sup>	6		
	<u>Bagging of 1:3 cement and sand mixture</u>				
11	On brick walls	m <sup>2</sup>	306		
	<u>Brickwork reinforcement</u>				
12	75mm Wide reinforcement built in horizontally (Provisional)	m	365		
13	75mm Wide reinforcement built in horizontally in foundations (Provisional)	m	189		
14	150mm Wide reinforcement built in horizontally (Provisional)	m	1 412		
15	150mm Wide reinforcement built in horizontally in foundations (Provisional)	m	966		
	<u>Prestressed fabricated concrete lintels including necessary temporary supports</u>				
16	110 x 70mm Lintels in lengths not exceeding 3m	m	153		
	<b>Carried to Collection</b>			R	
	Section No. 3				
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	MASONRY				
	DEVELOPMENT BANK OF SOUTHERN AFRICA				

### Galvanised wire ties

## FACE BRICKWORK

"Corobrik Nala Travertine" face bricks pointed with recessed horizontal and vertical joints

22	Extra over brickwork for brick-on-edge header course lintels one course high	m	50
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24	220mm Wide sills set sloping and slightly projecting	m	46
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Amount  
R

R

Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes				
<u>Fixing</u>				
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete				
<u>Decorative laminate finish</u>				
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish				
<b><u>STRUCTURAL TIMBERWORK ETC</u></b>				
<u>The following in plate nailed timber roof trusses with a pitch not exceeding 27,5°, from an approved supplier, delivered to site, hoisted into position, fixed and braced on timber wall plates</u>				
1	Double pitch timber truss 7.48 x 1.36m high overall with 600mm eaves overhang projection on one side and 2100mm at the front side over walkways	No	38	
<u>Sawn softwood grade M4</u>				
2	38 x 76mm Wall plates including bed level in cement mortar	m	88	
3	50 x 76mm Purlins	m	538	
4	50 x 76mm Cross bracing	m	17	
5	75 x 75mm Splayed purlins	m	102	
6	38 x 114mm Longitudinal bracing	m	88	
7	38 x 114mm Rafters in lengths exceeding 2.4m and not exceeding 3.9m	m	42	
8	38 x 152mm Beams, etc bolted	m	80	
9	50 x 228mm Beams, etc bolted	m	45	
<b>Carried to Collection</b>				
Section No. 3				
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CARPENTRY AND JOINERY				
DEVELOPMENT BANK OF SOUTHERN AFRICA				





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3

m

## INSULATION

4

 $m^2$ 

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Item No		Quantity	Rate	Amount R
<b><u>SECTION NO. 3</u></b>				
<b><u>BILL NO 9</u></b>				
<b><u>IRONMONGERY</u></b>				
<i>(WORK GROUP NO. 132)</i>				
The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)				
<b><u>HINGES, BOLTS, ETC</u></b>				
<u>Approved</u>				
1	100mm Steel hinge	No	16	
<b><u>LOCKS, ETC</u></b>				
<u>"Union Assa Abloy"</u>				
2	50mm UN335002006300 padlock	No	4	
3	Solid Art 390/313 four lever mortice lockset with satin chrome plated handles	No	8	
<b><u>SIGNAGE</u></b>				
<u>Approved</u>				
4	290 x 290mm FB1 Direction sign	No	1	
5	290 x 290mm FB2 Fire extinguisher sign	No	1	
6	290 x 290mm FB3 Fire hose sign	No	1	
7	290 x 290mm GA3/GA4 running man sign	No	1	
<b>Carried to Collection</b>				R
Section No. 3 Bill No. 9 IRONMONGERY <b>DEVELOPMENT BANK OF SOUTHERN AFRICA</b>				

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8	290 x 290mm GA33 exit sign	No	1		
9	38mm High plastic letter or numeral	No	4		
10	50 x 400 x 3mm Thick perspex plate with nine 40mm high engraved and painted letters or numerals	No	1		
<b><u>SUNDRIES</u></b>					
<u>"Assa Abloy" or other approved</u>					
11	87001SS Floor door stop satin SS	No	12		
12	SS8025SS Hat and Coat Hook with buffer	No	4		
<b><u>STEEL LOCKERS</u></b>					
<u>'Castor &amp; Ladder' or other approved 6 x 3 steel stationery cupboards in Ivory Karoo finish or other approved</u>					
13	Cupboard size 1800 x 900mm x 450mm high with 4 adjustable shelved (Code CU10)	No	4		
<b><u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u></b>					
<u>Wall mounted vitreous enamel writing boards as SABS CKS-36-1994</u>					
14	'Vitrex' Model 2100 standard vitreous enamelled wall mounted writing board overall size 4800 x 1000mm high comprising two boards ref. no. 2205, each size 2400 x 1000mm high overall complete with intergrated chalkrail along bottom and fixed to existing plastered brick wall	No	4		
<b>Carried to Collection</b>				R	
Section No. 3					
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IRONMONGERY					
DEVELOPMENT BANK OF SOUTHERN AFRICA					

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## Quantity

Rate

Amount  
R

- |   |  |    |    |
|---|--|----|----|
| 1 | 51 x 2mm x 2.42kg/m Circular hollow section continuous rails | m  | 31 |
| 2 | Extra over for rounded closed end                            | No | 4  |
| 3 | Extra over for bend to 50mm internal radius                  | No | 2  |

R

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4	L-shaped bracket formed of 16mm round 200mm girth, once bent to 50mm internal radius, with one end welded to rail and other end welded to and including 75mm diameter x 6mm thick plate twice holed for bolts	No	2		
5	"Hilti" HLC 12 x 55/15 expansion anchor and bolt	No	93		
	<u>Welded portal columns in single lengths with flat base, top, bearer and connection plates</u>				
6	PC100 x 50mm x 10.1kg/m Channel posts 2.10m high with 100 x 6mm x 5.18kg/m flat bar base plate 100mm long twice holed for bolts and welded on	kg	1 909		
7	PC100 x 50mm x 10.1kg/m Channel beams 2.10m long welded on	kg	1 535		
8	Extra over for mitred L-intersection	No	90		
9	50 x 6mm x 2.36kg/m Flat bar cleat 150mm girth, once bent across flat, once holed for bolt and welded on	No	90		
10	"Hilti" HLC 16 x 60/10 expansion anchor and bolt	No	16		
	<u>Roof brackets, etc</u>				
11	U-shaped bracket formed of 40 x 6mm x 2.12kg/m flat bar 350mm girth, twice bent across flat and twice holed for bolts (bolts elsewhere)	No	90		
12	U-shaped bracket formed of 40 x 6mm x 2.12kg/m flat bar 700mm girth, twice bent across flat and twice holed for bolts (bolts elsewhere)	No	189		
13	Bolts	kg	23		
	<b><u>GALVANISED STEEL SCREENS AND GATES</u></b>				
	<u>Welded and bolted safe storage screens and gates</u>				
14	50 x 50 x 3mm cold rolled angle section bearer welded to lug and built in	m	20		
15	Extra for mitred and welded angle	No	8		
<b>Carried to Collection</b>				R	
Section No. 3					
Bill No. 10					
METALWORK					
DEVELOPMENT BANK OF SOUTHERN AFRICA					

16	Single gate size 0.97 x 2.25m high formed of 50 x 50 x 2.0mm x 3.03kg/m square hollow section frame, and gate formed of 60 x 60 x 2mm rectangular tube framing all round mitred and welded at angles with two 40 x 6mm flat section horizontal intermediate rails with ends welded to framing and with five 19mm diameter rod vertical bars framed through intermediate rails with ends welded to framing, fitted with a pair of suitable hinges bolted to wall with and including two 16mm expansion bolts and the gate with hasp and staple and 12mm drop bolt welded on (Padlock measured elsewhere)	No	4
	<b><u>HOT DIPPED GALVANIZED PRESSED STEEL DOOR FRAMES</u></b>		
	<u>1.2mm Rebated frames suitable for half brick walls</u>		
17	Frame for door 813 x 2032mm high	No	4
	<u>1.2mm Double rebated frames suitable for one brick walls</u>		
18	Frame for door 813 x 2032mm high	No	4
	<b><u>HOT DIP GALVANISED STEEL WINDOWS, DOORS, ETC.</u></b>		
	A sample window shall be submitted for approval prior to placing the complete order		
	<u>Standard windows with heavy duty solid brass ironmongery with opening sections fitted with standard burglar bars</u>		
19	Window type 4BH 889 x 457mm high	No	8
20	Window composite type 4/9, 889 x 914mm high	No	24
21	Window composite type 6/9 size 889 x 1248mm high	No	20
	<b>Carried to Collection</b>		
	Section No. 3		
	Bill No. 10		
	METALWORK		
	DEVELOPMENT BANK OF SOUTHERN AFRICA		

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### SECTION NO. 3

**BILL NO 11**

## PLASTERING

(WORK GROUP NO. 142)

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)

## SUPPLEMENTARY PREAMBLES

## PLASTER

## Finish

Internal plaster shall be finished with a steel trowel and external plaster with a wooden float

## SCREEDS

## Screeds on concrete

1	25mm Thick on floors and landings	m <sup>2</sup>	421
2	30mm Thick on narrow widths	m <sup>2</sup>	4
<b><u>INTERNAL PLASTER</u></b>			
<u>Cement plaster class II on masonry</u>			
3	On walls	m <sup>2</sup>	446
4	On narrow widths	m <sup>2</sup>	25

## INTERNAL PLASTER

Cement plaster class II on masonry

3	On walls	m <sup>2</sup>	446
4	On narrow widths	m <sup>2</sup>	25

**Carried Forward to Final Summary**

Section No. 3

Bill No. 11

## PLASTERING

DEVELOPMENT BANK OF SOUTHERN AFRICA

Quantity

Amount  
R

## TILING

## SUPPLEMENTARY PREAMBLES

### Descriptions

Descriptions of tiling shall be deemed to include for soft grouted joints at positions of joints in the substructure or at centres in both directions as recommended by the tile manufacturers or which represents good practice

## WALL TILING

Carried to Collection

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Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:

SANS 1200 L : Medium-pressure pipelines, SANS 1200 LD : Sewers and SANS 1200 LE : Stormwater drainage

Pipe trenches, etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SANS 1200 DB : Earthworks (Pipe trenches)

Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SANS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding

#### uPVC pipes and fittings

Drainage pipes and fittings shall be jointed and sealed with butyl rubber rings

Sanitary plumbing pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

#### Gratings, covers, etc

Gratings, covers, etc shall be as manufactured by "Saint-Gobain", unless otherwise described

#### French drains

Descriptions of french drains shall be deemed to include for battered sides and sloping bottoms with inlet chamber size 300 x 300mm internally under inlet pipe, from bottom of drain to top of pipe, formed of loosely packed, rough, hard stone walls and covered with precast concrete slab size 600 x 600 x 100mm thick and the rest of the drain filled in to the same height with similar stone graded from 300mm diameter at bottom to 50mm diameter at top, covered with galvanised corrugated iron sheets treated on both sides with bituminous paint and 300mm earthfilling over

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PLUMBING AND DRAINAGE

**DEVELOPMENT BANK OF SOUTHERN AFRICA**

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uPVC pressure pipes and fittings

Pipes for water supply shall be of the class described

Pipes of 42mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings

Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints

Copper pipes

Pipes shall be hard drawn and half-hard pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016

Fixing of pipes

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for :

- casting in, building in, chasing in and fixing to walls, etc, including chasing; or
- placing in ground or filling under solid floors, including necessary excavation, backfilling and ramming; or
- suspending not exceeding 1m below suspension level

Reducing fittings

Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm, only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm, all sizes are given and no claim for extra bushes, reducers, etc will be entertained

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PLUMBING AND DRAINAGE

**DEVELOPMENT BANK OF SOUTHERN AFRICA**

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Stainless steel basins, sinks, wash troughs, urinals, etc

Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be type 304 (18/8)

Flush pans

Flush pans shall have straight or side outlets and "P" or "S" traps as necessary

Geyser installations

Geyser installations shall comply with SANS 10254

General

Descriptions of pipes laid in and including trenches, sumps, catchpits, junction boxes, inspection chambers, french drains, septic tanks and the like shall be deemed to include for excavations, bedding of pipes, risk of collapse, keeping free of water, a dewatering system for removal of seepage water and water from other subterranean sources in the excavations designed and executed by the contractor, backfilling, compaction to a minimum of 93% modified AASHTO density and disposal of surplus material

Descriptions of sumps, catchpits, junction boxes, inspection chambers and the like shall be deemed to include reinforcement, step irons and channels where applicable

Descriptions for jointing of new to existing pipes shall be deemed to include searching for the existing pipe, exposing if necessary, cutting into, jointing and necessary fittings

Descriptions of all sanitary fittings shall be deemed to include for silicone sealant pointing between the fittings and finished wall surfaces

Descriptions of copper service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to pipes

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**DEVELOPMENT BANK OF SOUTHERN AFRICA**

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends					
<b><u>RAINWATER DISPOSAL</u></b>					
<u>"Marley Vynadeep" uPVC</u>					
1	110mm Half round eaves gutters	m	142		
2	Extra over for stopped end	No	8		
3	Extra over for outlet for 75mm diameter pipe	No	14		
4	75mm Diameter rainwater pipes	m	50		
5	Extra over for bend	No	28		
6	Extra over for shoe	No	14		
<u>(WORK GROUP NO 110)</u>					
<b><u>STORMWATER CHANNELS</u></b>					
<u>In-situ concrete channels</u>					
7	Concrete 20MPa/19mm, Ref. 193 mesh reinforcement, in-situ "V"-shaped open surface water channel 1000mm wide with minimum 75mm thickness in the centre and 100mm at the edges to form a 25mm deep dish, cast to falls in lengths not exceeding 2000mm, jointed in 3:1 cement mortar finished smooth with a wood float on all exposed surfaces including all necessary shallow excavation, well ramming ground under, spreading and levelling surplus excavated material and formwork	m	118		
8	Extra over 900mm "V"-shaped channel for angles, intersections and ends	No	8		
<b>Carried to Collection</b>				R	
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9	Triangular shaped concrete spill basin size 900mm at head, 1500mm at base end and 1500mm long, formed of 200mm thick concrete base with concrete upstand size 100 x 100mm high along two sides including all excavations, formwork and backfilling, the top of the base inlaid with sixteen concrete bricks protruding 50mm above the surface of the concrete and loose stones of 100 to 150mm diameter at the base of the spill basin for a width of 500mm	No	1		
	<u>Gratings, covers, etc</u>				
	<b><u>SLEEVES FOR ELECTRICAL AND TELEPHONE CABLES</u></b>				
	<u>Class 6 modified uPVC pipes, including 1.6mm galvanised steel draw wires</u>				
10	110mm Pipes laid in and including trenches not exceeding 1m deep	m	80		
11	Set of two 110mm pipes laid in and including trenches not exceeding 1m deep	m	160		
	<u>Extra over class 6 modified uPVC pipes for modified uPVC fittings</u>				
12	110mm 45 Degree bend	No	3		
13	110mm 90 Degree bend	No	2		
	<u>Inspection chambers (covers elsewhere)</u>				
14	Inspection chamber 900 x 900mm and not exceeding 0.75m deep internally	No	3		
	<u>Cast iron covers</u>				
15	600 x 600mm x 82kg Type 9B single seal cover and frame	No	3		
	<b><u>SOIL DRAINAGE</u></b>				
	<u>uPVC pipes</u>				
16	50mm Pipes	m	5		
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	<u>Extra over class 16 modified uPVC pipes for SG iron fittings</u>				
28	50mm Equal tee	No	4		
	<u>Class 1 copper pipes</u>				
29	15mm Pipes	m	8		
30	22mm Pipes	m	21		
31	28mm Pipes	m	30		
	<u>Extra over class 1 copper pipes for capillary fittings</u>				
32	15mm Fittings	No	8		
33	22mm Fittings	No	12		
34	28mm Fittings	No	4		
	<u>Extra over class 1 copper pipes for brass compression fittings</u>				
35	15mm Fittings	No	8		
36	22mm Fittings	No	4		
37	28mm Fittings	No	4		
	<u>Sundries</u>				
38	Unreinforced concrete thrust blocks at bends, tees, etc, including necessary extra excavation, formwork, etc	m <sup>3</sup>	1		
39	150 x 150mm Type 11A cast iron stopcock box, including brick chamber below not exceeding 0.50m deep internally	No	1		
40	300 x 200mm Type 10A cast iron meter box, including brick chamber below not exceeding 0.50m deep internally	No	1		
41	450 x 450mm Valve chamber not exceeding 0.75m deep internally (cover and frame elsewhere)	No	1		
<b>Carried to Collection</b>				R	
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42	450 x 450 x 28.5kg Type 14B cast iron cover and frame	No	1		
43	Allow for testing of all the above mentioned items as described to the complete satisfaction of the Principal Agent and for replacing any defective work at the Contractor's expense and re-testing until found to be perfect		Item		
<b><u>WATER SUPPLIES TO FIRE APPLIANCES</u></b>					
<u>Class 16 modified uPVC pipes</u>					
44	110mm Pipes laid in and including trenches	m	5		
<u>Extra over class 16 modified uPVC pipes for modified uPVC fittings</u>					
45	110mm 90 Degree bend	No	2		
<u>Extra over class 16 modified uPVC pipes for SG iron fittings</u>					
46	110mm End cap	No	1		
47	110mm Equal tee	No	1		
<u>Black medium quality (SANS 62/BS 1387) mild steel pipes with one coat factory applied red oxide primer and one final coat of red gloss enamel paint</u>					
48	40mm Pipe	m	3		
<u>Extra over black medium quality (SANS 62/BS 1387) mild steel pipes for steel fittings, including one coat factory applied red oxide primer and one final coat of red gloss enamel paint</u>					
49	100 x 40mm Reducing tee	No	1		
<u>Class 1 copper pipes</u>					
50	42mm Pipes laid in and including trenches	m	2		
<b>Carried to Collection</b>				R	
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	"JoJo" polyethylene			
59	5000 Litre "Jojo" low profile rainwater tank complete with access lid with inlet hole placed in position on concrete slab and anchored with and including four 7mm diameter galvanized steel chain anchors fitted into garden hose protective sleeves with top end of chain secured to tank and bottom end secured to and including 10mm diameter x 650mm girth U-shaped high tensile steel securing lugs, bent to detail and cast in to concrete plinth. Tank to be filled to half before being built in	No	1	
60	Outlet union for 50mm uPVC pipe, including hole through tank	No	1	
	<b>TAPS, VALVES, ETC</b>			
	<u>"Cobra Watertech"</u>			
61	15mm 166/041CP "Star" wall type sink mixer	No	4	
	<b>WASTE UNIONS, ETC</b>			
	<u>"Cobra Watertech"</u>			
62	40mm 316CP bath or sink waste union	No	4	
	<b>TRAPS, ETC</b>			
	<u>"Flexitrap" rubber</u>			
63	40mm Plain "P" or "S" trap	No	4	
	<b>FIRE APPLIANCES, ETC</b>			
	<u>"Chubb"</u>			
64	"Everyway" hose reel complete with 30m hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	1	
65	4.5kg Dry chemical powder fire extinguisher on and including a painted backing board	No	1	
	<b>Carried to Collection</b>			R
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	PLUMBING AND DRAINAGE			
	DEVELOPMENT BANK OF SOUTHERN AFRICA			

"Kevcor" plastic fire boxes

### Fire hydrant pedestals

## AS-BUILT DRAWINGS

71	Allow for an updated set of as-built drawings to be handed to the principal agent at completion of the contract	Item
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Quantity

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<u>COLOURS</u>					
Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards					
<u>SMOOTH PLASTER OR CONCRETE SURFACES WITH</u>					
<u>One coat alkali resistant plaster primer and two coats superior matt acrylic paint on</u>					
1	Internal walls	m <sup>2</sup>	458		
2	Extra over for paintwork on components in the "Pastel" colour group for paintwork in the "Deep" colour group (Provisional)	m <sup>2</sup>	478		
<u>ON PLASTER BOARD</u>					
<u>One coat alkali resistant plaster primer and two coats superior matt acrylic paint on</u>					
3	Internal plasterboard ceilings including priming nail heads	m <sup>2</sup>	315		
<u>FIBRE-CEMENT SURFACES WITH</u>					
<u>Two coats pure acrylic paint on</u>					
4	Fascias and barge boards ("White" colour group)	m <sup>2</sup>	37		
<u>METAL SURFACES WITH</u>					
<u>One coat galvanised iron primer and two coats super universal enamel paint on galvanised steel</u>					
5	Windows with burglar bars ("White" colour group)	m <sup>2</sup>	90		
6	Door frames ("White" colour group)	m <sup>2</sup>	7		
<b>Carried to Collection</b>				R	
Section No. 3 Bill No. 15 PAINTWORK DEVELOPMENT BANK OF SOUTHERN AFRICA					





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Section No. 3

## SECTION SUMMARY - Section 3 - New Classroom Block

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DEVELOPMENT BANK OF SOUTHERN AFRICA

Note:- Light fittings with diffusers are not to be installed as the diffusers never get cleaned. Bayonet caps are not to be used on any lamp. All luminaries shall have the SABS mark for the apparatus and or/the safety mark. All screws in bulkhead fittings shall be stainless steel screws in brass inserts. Self thread screws into the base are totally unacceptable. The bulkhead must at least have an IP 45 rating. The Dome Diffuser Ring must be fitted with self locating screws lugs.

#### **RETICULATION REQUIREMENTS**

##### Kiosk

- |   |  |    |   |
|---|--|----|---|
| 1 | Supply and installation of fibreglass weatherproof main kiosk as per sinlge line diagram | No | 1 |
|---|--|----|---|

#### **COPPER CABLES**

Supply, delivery and laying of copper cables as specified, excluding terminations and cable supports. Lengths given shall be taken as measured lengths to cable runs from terminal to terminal and rates quoted shall include for off-cuts and wastage. These rates shall include for the laying of cables in trenches (trenches and backfilling measured elsewhere)

- |   |                                       |   |    |
|---|---------------------------------------|---|----|
| 2 | 50mm <sup>2</sup> x 4C/ECC/SWA/PVC/Cu | m | 85 |
| 3 | 16mm <sup>2</sup> x 2C/ECC/SWA/PVC/Cu | m | 45 |
| 4 | 10mm <sup>2</sup> x 2C/ECC/SWA/PVC/Cu | m | 15 |

#### **TRENCHING**

Excavate cable sleeve trench at a minimum 450mm wide x 600mm deep including backfill compacted sifted sand in layers of 150mm to a minimum density of 98% MOD A.A.S.H.T.O. as specified

- |   |                                    |   |    |
|---|------------------------------------|---|----|
| 5 | Excavations for trenches and holes | m | 85 |
| 6 | Extra over for soft rock           | m | 12 |
| 7 | Extra over for hard rock           | m | 12 |

**Carried to Collection**

Section No. 4

Bill No. 1

ELECTRICAL INSTALLATION

**DEVELOPMENT BANK OF SOUTHERN AFRICA**

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<b><u>MULTICORE CABLE TERMINATIONS</u></b>					
<u>Including the supply and fitting of Pratley Cable gland, shroud, making off the cable and fitting the gland to gland plates, switchgear or equipment including final connections of cable tails with lugs onto board terminals and including earth in ECC cable, as per the specification, including keeping the trenches clear and free from water and an allowance for collapse of excavations</u>					
8	50mm <sup>2</sup> x 4C/ECC/SWA/PVC/Cu	No	16		
9	16mm <sup>2</sup> x 2C/ECC/SWA/PVC/Cu	No	8		
10	10mm <sup>2</sup> x 2C/ECC/SWA/PVC/Cu	No	10		
<b><u>SLEEVES</u></b>					
<u>Unplasticized polyvinyl chloride (UPVC) sleeve piping, including short lengths and cutting, laid in trench (trench and backfilling elsewhere measured)</u>					
11	50mm Diameter	m	5		
12	70mm Diameter pipes	m	45		
13	110mm Diameter pipes	m	85		
14	Extra over piping for 50mm long radius bend	No	12		
15	Extra over piping for 70mm long radius bend	No	4		
16	Extra over piping for 110mm long radius bend	No	4		
<b><u>Marking Tape</u></b>					
17	Supply, deliver and install PVC marker tape suitable to be laid in cable trenches. 150mm Wide, yellow coloured and marked "DANGER: ELECTRICAL CABLE BELOW"	m	60		
<b><u>Manhole</u></b>					
18	Construct 600mm x 600mm, 600mm deep manholes in specified positions	No	4		
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	<u>Testing and Commissioning</u>				
19	Allow for testing and commissioning the complete electrical installation and the issue of the Certificates of Compliance		Item		
	<b><u>AREA LIGHTING REQUIREMENTS</u></b>				
	<b><u>TRENCHING</u></b>				
	<u>Excavate cable sleeve trench at a minimum 450mm wide x 600mm deep including backfill compacted sifted sand in layers of 150mm to a minimum density of 98% MOD A.A.S.H.T.O. as specified</u>				
20	In pickable materials	m	85		
	<b><u>COPPER CABLES</u></b>				
	<u>Supply, delivery and laying of copper cables as specified, excluding terminations and cable supports. Lengths given shall be taken as measured lengths to cable runs from terminal to terminal and rates quoted shall include for off-cuts and wastage. These rates shall include for the laying of cables in trenches (trenches and backfilling measured elsewhere)</u>				
21	10mm <sup>2</sup> x 2C/ECC/SWA/PVC/Cu	m	255		
	<b><u>MULTICORE CABLE TERMINATIONS</u></b>				
	<u>Including the supply and fitting of Pratley Cable gland, shroud, making off the cable and fitting the gland to gland plates, switchgear or equipment including final connections of cable tails with lugs onto board terminals and including earth in ECC cable</u>				
22	10mm <sup>2</sup> x 2C/ECC/SWA/PVC/Cu	No	24		
	<b><u>SLEEVES</u></b>				
	<u>Unplasticized polyvinyl chloride (UPVC) sleeve piping, including short lengths and cutting, laid in trench (trench and backfilling elsewhere measured)</u>				
23	50mm Diameter pipes	m	15		
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	<u>Marking Tape</u>				
24	Supply, deliver and install PVC marker tape suitable to be laid in cable trenches. 150mm Wide, yellow coloured and marked "DANGER: ELECTRICAL CABLE BELOW"	m	3		
	<u>Luminaires</u>				
25	Supply and install Floodlight Thorn 96231775 Sonpak LX 400W 230V HIT/E40/742 A/S or equal and approved	No	18		
26	Supply and install LED Streetlight SWAN/STREETLED/65W/ 6048 LUMEN or equal and approved	No	5		
	<u>Testing and Commissioning</u>				
27	Allow for testing and commissioning the complete electrical installation and the issue of the Certificates of Compliance		Item		
	<b><u>NEW DISTRIBUTION BOARDS</u></b>				
	<u>Supply, installation and commissioning of Distribution Boards as specified, including making off all wire connections (external wiring, conduit, armoured cable and terminations given elsewhere)</u>				
28	Distribution Board DB-A as per Drawing	No	1		
	<b><u>SMALL POWER REQUIREMENTS</u></b>				
	<u>Supply, install, connect, test and commission the complete small power installation as described in the specification and as described below:</u>				
	<b><u>CONDUITS</u></b>				
	Flush mounted PVC conduit chased to walls. The price is to include for cutting, bending, setting, joining, and any other materials necessary for the successful completion of the installation.				
	<b>Carried to Collection</b>			R	
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	<u>Note: Drilling of structure is not permitted without the prior approval of the structural engineer. Any drilling of the structure without the prior approval of the Structural Engineer will result in the cost of all necessary remedial work and/ or replacement of structural members to be charged to the contractor's account. The above also applies to "Hilti" shot type fixings.</u>				
29	20mm diameter PVC conduit	m	727		
	<b><u>CONDUIT BOXES</u></b>				
	<u>Supply and install conduit boxes for 20mm conduit with 1, 2, 3 or 4 way side entries, and or back entry including conduit connection. Allowance to be made for chasing of boxes on the wall surface.</u>				
30	60mm PVC round boxes	No	14		
31	100 x 100mm Conduit box	No	9		
	<b><u>PVC WIRING CONDUCTORS</u></b>				
	<u>Supply and install PVC insulated copper conductors as specified drawn into conduit.</u>				
32	6mm <sup>2</sup> (red)	m	36		
33	6mm <sup>2</sup> (black)	m	36		
34	6mm <sup>2</sup> (green)	m	36		
35	4mm <sup>2</sup> (red)	m	36		
36	4mm <sup>2</sup> (black)	m	36		
37	4mm <sup>2</sup> (green)	m	36		
38	2.5mm <sup>2</sup> (red)	m	727		
39	2.5mm <sup>2</sup> (black)	m	727		
40	2.5mm <sup>2</sup> (green)	m	727		
41	1.5mm <sup>2</sup> (red)	m	12		
	<b>Carried to Collection</b>			R	
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42	1.5mm2 (black)	m	12		
43	1.5mm2 (green)	m	12		
<b><u>LIGHT FITTINGS</u></b>					
<u>The supply, installation and termination of luminaires complete with lamps as indicated on the drawings. All fluorescents shall have cool white lamps.</u>					
44	Type "A" (2x49W 1500mm T5 open channel fluorescent luminaire with electronic gear and cool white lamps such as Lighting Innovations ORLANDO INE-258 or similar approved).	No	170		
45	Type "B" (13W LED IP65 Bulkhead luminaire with opal acrylic diffuser and black die-cast aluminium base such as BEKA 31 BULKHEAD 13W or similar approved).	No	67		
46	Type "C" (21W, 2 500 Lumen LED IP65 Bulkhead luminaire with high impact polycarbonate acrylic diffuser and white die-cast aluminium base such as BEKA Series 300 21W or similar approved).	No	13		
47	Up/Downlighter fitted with 2 x PL 18 W lamps -Equal to the Eurolux B148GT	No	7		
<u>Switches, etc. complete with engraved/labelled cover plate fixed in 100x50mm galvanised flush box, and including flush box.</u>					
48	16A One-lever one-way switch	No	20		
<u>Switched socket outlets, etc complete with engraved/labelled cover plate fixed in a 100x100mm galvanised flush box and including flush box</u>					
49	16A Three-pin double switched socket outlet, with white cover	No	21		
50	16A Three-pin single switched socket outlet, with white cover	No	9		
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## PHOTO ELECTRIC CELL

## General Earthing Requirements

## LIGHTNING PROTECTION INSTALLATION

56	1mm <sup>2</sup> Galvanised draw wire	m	642
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### Testing and commissioning

58	Allow for compliance of installation with all regulations and by-laws	Item
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Carefully remove and disconnect existing fittings and prepare to install new

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60	Bulkhead type fittings	No	80
61	Downlighter type fittings	No	7
62	Ceiling fans	No	12
63	Allow for disconnection of existing electrical connections buildings, stripping or electrical work in ceilings and roof and preparation for new work		Item
64	Profit for attendance		Item
65	Allow for disconnection and reconnection of existing alarm systems to Block B and D		Item
66	Profit for attendance		Item

R

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Amount  
R

R

General attendance on nominated/selected subcontractors

The item "attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors the contractor's duties as described in clause 12.2 of the JBCC N/S Subcontract Agreement

Special attendance on nominated/selected subcontractors

Where "special attendance" such as unloading, storing, placing in position, providing special power supplies, specific hoisting, crange and scaffolding requirements, provision of temporary casing and/or other specific protection of the works, special security and clearing away rubbish is required, a separate item describing the specific requirements in detail is to be provided for the pricing of such requirements

Builder's work

Builder's work in connection with specialist services is given elsewhere in these bills of quantities

Selected Sub-contractors

The Contractor's attention is drawn to the fact that the indicated individual provisional sums may consist of a number of Selected Sub-contractors, all of which will be executed by separate Selected Sub-contractors. 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.

**BUDGETARY ALLOWANCES**

Community Liason Officer

- 1 Provide the sum of R 100 000.00 (One Hundred Thousand Rand) for Community Liaison Officer
- 2 Profit on the above item

Item

%

**Carried to Collection**

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Section No. 5

Bill No. 1

PROVISIONAL SUMS, ETC

**DEVELOPMENT BANK OF SOUTHERN AFRICA**





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