

**DEVELOPMENT BANK OF SOUTH AFRICA**  
**INFRASTRUCTURE AND MAINTENANCE PROGRAMME**  
**INKONKONI PRIMARY SCHOOL**

Item No	Quantity	Rate	Amount R
<b><u>SECTION NO. 1</u></b>			
<b><u>BILL NO. 1</u></b>			
<b><u>PRELIMINARIES</u></b>			
<b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b>			
<p>The <b>JBCC</b> Principal Building Agreement (May 2018 Edition 6.2) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The <b>JBCC</b> Principal Building Agreement <b>contract data</b> form an integral part of this <b>agreement</b></p> <p>The Preliminaries revision 1 (February 2016) published by the Association of South African Quantity Surveyors for use with the <b>JBCC</b> Principal Building Agreement Edition 6.2 shall be deemed to be incorporated in these <b>bills of quantities</b>, amended as hereinafter described</p> <p>The <b>contractor</b> is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause</p> <p>The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only</p> <p>Where any item is not relevant to this <b>agreement</b> such item is marked N/A signifying "not applicable"</p>			
<b><u>PREAMBLES FOR TRADES</u></b>			
<p><i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated descriptions utilised in these bills of quantities by inter alia referring to SANS construction standards.</i></p>			
<b>Carried Forward</b>			R
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<p style="text-align: center;"><b>Brought Forward</b></p> <p><i>Note that the text of the Standard System of Measuring Building Work (seventh edition) and that of the Standard Method of Measuring Building Work for Africa 2015 (first edition) is the same</i></p> <p>The Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these <b>bills of quantities</b> and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained</p> <p>Supplementary preambles and/or specifications are incorporated in these <b>bills of quantities</b> to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the Model Preambles</p> <p>The <b>contractor's</b> prices for all items throughout these <b>bills of quantities</b> shall take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles and/or specifications</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>SECTION NO. 1          PRELIMINARIES AND GENERAL          Bill No. 1          Preliminaries and General  <b>Inkonkoni Primary School</b></p>		R	

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**NOTES TO TENDERERS**

Tenderers are to inspect the drawings issued with these Bills of Quantities and to satisfy themselves with the nature and the requirements of the Contract works. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.

Tenderers are to read the descriptions, which are intended as a means of identifying various facets of the work, in conjunction with the drawings. Tenderers shall allow for all costs in connection with the various items taking full cognisance of both the drawings and the Bills of Quantities.

Tenderers shall notify the Quantity Surveyor in writing of any discrepancies encountered upon which clarification will be given by the Quantity Surveyor in writing to the Tenderer. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard

Tenderers are to note that setting out of the works will be the complete responsibility of the Tenderer and they should therefore acquaint themselves with the site boundaries, site co-ordinates, datum levels etc. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.

Tenderers are to note that all items with ZERO quantities are Rate Only items and should be priced as such.

Tenderers are to note that there might be specified suppliers to be used for certain trades as per the annexure to this tender document. Tenderers should familiarise themselves with the suppliers on the list and ensure to allow for accordingly. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.

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Tenderers are to fully acquaint themselves with the construction period and shall allow for any night shift if required. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.

**STRUCTURE OF THIS PRELIMINARIES BILL**

**Section A** : A recital of the headings of the individual clauses of the aforementioned **JBCC Principal Building Agreement**

**Section B** : A recital of the headings of the individual clauses of the aforementioned Preliminaries document

**Section C** : Any special clauses to meet the particular circumstances of the project

**PRICING OF PRELIMINARIES**

Should the **contractor** select Option A in the **contract data** for the adjustment of **preliminaries**, the amounts entered against the relevant items in these **preliminaries** are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)

**SECTION A: PRINCIPAL BUILDING AGREEMENT**

**Interpretation (A1-A7)**

1/1/1 Clause 1.0 - Definitions and interpretation

F:..... V:.....  
T:.....

Item

1/1/2 Clause 2.0 - Law, regulations and notices

F:..... V:.....  
T:.....

Item

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	<b>Brought Forward</b>			R
1/1/3	Clause 3.0 - Offer and acceptance  F:..... V:..... T:.....	Item		
1/1/4	Clause 4.0 - Assignment and cession  F:..... V:..... T:.....	Item		
1/1/5	Clause 5.0 - <b>Contract documents</b>  F:..... V:..... T:.....	Item		
1/1/6	Clause 6.0 - <b>Employer's agents</b>  <b>1. PRINCIPAL AGENT</b>  LODEMANN HOLDINGS Suite 301 Wheeler House 112-116 Mathews Meyiwa Rd (Stamford Hill) Morningside Durban   F:..... V:..... T:.....	Item		
1/1/7	Clause 7.0 - Design responsibility  F:..... V:..... T:.....	Item		
	<b><u>Insurance and security (A8-A11)</u></b>			
1/1/8	Clause 8.0 - <b>Works</b> risk  F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>			R
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	<b>Brought Forward</b>		R	
1/1/9	Clause 9.0 - Indemnities  F:..... V:..... T:.....	Item		
1/1/10	Clause 10.0 - Insurances  F:..... V:..... T:.....	Item		
1/1/11	Clause 11.0 - <b>Security</b>  F:..... V:..... T:.....	Item		
	<b><u>Execution (A12 - A17)</u></b>			
1/1/12	Clause 12.0 - Duties of the <b>parties</b>  F:..... V:..... T:.....	Item		
1/1/13	Clause 13.0 - Setting out  F:..... V:..... T:.....	Item		
1/1/14	Clause 14.0 - Nominated <b>subcontractors</b>  F:..... V:..... T:.....	Item		
1/1/15	Clause 15.0 - Selected <b>subcontractors</b>  F:..... V:..... T:.....	Item		
1/1/16	Clause 16.0 - <b>Direct contractors</b>  <b>Attendance on direct contractors</b>  In respect of <b>direct contractors</b> the <b>contractor</b> shall:			
	<b>Carried Forward</b>		R	
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	<b>Brought Forward</b>			R
	F:..... V:..... T:.....	Item		
1/1/17	Clause 17.0 - <b>Contract instructions</b>			
	<b>Site instructions</b>			
	Instructions issued on <b>site</b> are to be recorded in a site instruction book which is to be supplied and maintained on <b>site</b> by the <b>contractor</b>			
	F:..... V:..... T:.....	Item		
	<b><u>Completion (A18 - A24)</u></b>			
1/1/18	Clause 18.0 - Interim completion			
	F:..... V:..... T:.....	Item		
1/1/19	Clause 19.0 - <b>Practical completion</b>			
	F:..... V:..... T:.....	Item		
1/1/20	Clause 20.0 - Sectional completion			
	F:..... V:..... T:.....	Item		
1/1/21	Clause 21.0 - <b>Defects</b> liability period and <b>final completion</b>			
	F:..... V:..... T:.....	Item		
1/1/22	Clause 22.0 - <b>Latent defects</b> liability period			
	F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>			R
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	<b>Brought Forward</b>		R
1/1/23	<p>Clause 23.0 - Revision of date for <b>practical completion</b></p> <p><b>Substitution of materials and goods</b></p> <p>The removal or substitution of any <b>materials and goods</b> which do not conform to the specification or the <b>contract drawings</b> shall not constitute grounds for the extension of the <b>construction period</b> nor for the adjustment of the <b>contract value</b> [17.1.8, 23.1 &amp; 2]</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/24	<p>Clause 24.0 - <b>Penalty</b> for late or non-completion</p> <p>F:..... V:..... T:.....</p> <p><b>Payment (A25 - A27)</b></p>	Item	
1/1/25	<p>Clause 25.0 - Payment</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/26	<p>Clause 26.0 - Adjustment of the <b>contract value</b> and <b>final account</b></p> <p>F:..... V:..... T:.....</p>	Item	
1/1/27	<p>Clause 27.0 - Recovery of expense and/or loss</p> <p>F:..... V:..... T:.....</p> <p><b>Suspension and termination (A28 - A29)</b></p>	Item	
1/1/28	<p>Clause 28.0 - Suspension by the <b>contractor</b></p> <p>F:..... V:..... T:.....</p>	Item	
	<b>Carried Forward</b>		R
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	<b>Brought Forward</b>		R	
1/1/29	Clause 29.0 - Termination  F:..... V:..... T:.....	Item		
	<b><u>Dispute resolution (A30)</u></b>			
1/1/30	Clause 30.0 - Dispute resolution  F:..... V:..... T:.....	Item		
	The required information of the <b>parties</b> and the amount of the <b>contract sum</b> shall be inserted in the <b>agreement</b> for signature of the <b>agreement</b> by the <b>parties</b>  F:..... V:..... T:.....	Item		
	F:..... V:..... T:.....	Item		
	<b><u>SECTION B: PRELIMINARIES</u></b>			
	<b><u>Interpretation (B1)</u></b>			
1/1/31	Clause 1.1 - Definitions  F:..... V:..... T:.....	Item		
1/1/32	Clause 1.2 - Interpretation  F:..... V:..... T:.....	Item		
	<b><u>Documents (B2)</u></b>			
1/1/33	Clause 2.1 - Checking of documents  F:..... V:..... T:.....	Item		
1/1/34	Clause 2.2 - Provisional <b>bills of quantities</b>			
	<b>Carried Forward</b>		R	
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	<b>Brought Forward</b>		R	
	F:..... V:..... T:.....	Item		
1/1/35	Clause 2.3 - Availability of <b>construction information</b>			
	<b>Budgetary allowances and provisional sums</b>			
	The <b>budgetary allowances</b> and/or <b>provisional sums</b> allocated for subsequent trades included in this <b>agreement</b> will be separately procured, based on multiple procurement of <b>subcontractors</b> during the <b>construction period</b>			
	F:..... V:..... T:.....	Item		
1/1/36	Clause 2.4 - Ordering of <b>materials and goods</b>			
	F:..... V:..... T:.....	Item		
	<b><u>Previous work and adjoining properties (B3)</u></b>			
1/1/37	Clause 3.1 - Previous work - dimensional accuracy			
	F:..... V:..... T:.....	Item		
1/1/38	Clause 3.2 - Previous work - <b>defects</b>			
	F:..... V:..... T:.....	Item		
1/1/39	Clause 3.3 - Inspection of adjoining properties			
	F:..... V:..... T:.....	Item		
	<b><u>The site (B4)</u></b>			
1/1/40	Clause 4.1 - Defined <b>works</b> area			
	F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
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	<b>Brought Forward</b>		R	
1/1/41	Clause 4.2 - Handover of <b>site</b> in stages F:..... V:..... T:.....	Item		
1/1/42	Clause 4.3 - Enclosure of the <b>works</b> F:..... V:..... T:.....	Item		
1/1/43	Clause 4.4 - Geotechnical investigation F:..... V:..... T:.....	Item		
1/1/44	Clause 4.5 - Encroachments F:..... V:..... T:.....	Item		
1/1/45	Clause 4.6 - Existing premises occupied F:..... V:..... T:.....	Item		
1/1/46	Clause 4.7 - Services - known F:..... V:..... T:.....	Item		
1/1/47	Clause 4.8 - Protection of trees and/or relevant natural features F:..... V:..... T:.....	Item		
	<b><u>Management of contract (B5)</u></b>			
1/1/48	Clause 5.1 - Management of the <b>works</b> F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
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	<b>Brought Forward</b>			R
1/1/49	Clause 5.2 - Progress meetings F:..... V:..... T:.....	Item		
1/1/50	Clause 5.3 - Technical meetings F:..... V:..... T:.....	Item		
	<b><u>Samples, shop drawings and manufacturer's instructions (B6)</u></b>			
1/1/51	Clause 6.1 - Samples of materials F:..... V:..... T:.....	Item		
1/1/52	Clause 6.2 - Workmanship samples F:..... V:..... T:.....	Item		
1/1/53	Clause 6.3 - Shop drawings F:..... V:..... T:.....	Item		
1/1/54	Clause 6.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....	Item		
	<b><u>Deposits and fees (B7)</u></b>			
1/1/55	Clause 7.1 - Deposits and fees F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>			R
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	Brought Forward		R
	<b><u>Temporary services (B8)</u></b>		
1/1/56	Clause 8.1 - Water F:..... V:..... T:.....	Item	
1/1/57	Clause 8.2 - Electricity F:..... V:..... T:.....	Item	
1/1/58	Clause 8.3 - Ablution and welfare facilities F:..... V:..... T:.....	Item	
1/1/59	Clause 8.4 - Communication facilities F:..... V:..... T:.....	Item	
	<b><u>Prime cost amounts (B9)</u></b>		
1/1/60	Clause 9.1 - Responsibility for <b>prime cost amounts</b> F:..... V:..... T:.....	Item	
	<b><u>Attendance on subcontractors (B10)</u></b>		
1/1/61	Clause 10.1 - General attendance F:..... V:..... T:.....	Item	
1/1/62	Clause 10.2 - Special attendance F:..... V:..... T:.....	Item	
	<b>Carried Forward</b>		R
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**General (B11)**

1/1/63 Clause 11.1 - Protection of the **works**

F:..... V:.....  
T:.....

Item

1/1/64 Clause 11.2 - Protection/isolation of existing/sectionally occupied **works**

F:..... V:.....  
T:.....

Item

1/1/65 Clause 11.3 - Security of the **works**

F:..... V:.....  
T:.....

Item

1/1/66 Clause 11.4 - Notice before covering work

F:..... V:.....  
T:.....

Item

1/1/67 Clause 11.5 - Disturbance

F:..... V:.....  
T:.....

Item

Clause 11.6 - Environmental disturbance

F:..... V:.....  
T:.....

Item

1/1/68 Clause 11.7 - **Works** cleaning and clearing

F:..... V:.....  
T:.....

Item

1/1/69 Clause 11.8 - Vermin

F:..... V:.....  
T:.....

Item

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1/1/70	Clause 11.9 - Overhand work  F:..... V:..... T:.....	Item	
1/1/71	Clause 11.10 - Tenant installations by <b>direct contractors</b>  F:..... V:..... T:.....	Item	
1/1/72	Clause 11.11 - Advertising  F:..... V:..... T:.....	Item	
	<b><u>Preliminaries schedule (B12)</u></b>		
1/1/73	<b>Information for completion of the preliminaries schedule</b>  Information necessary for elections and completion of those clauses contained in the <b>preliminaries</b> schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that no specific requirements are expected or that the clause is not relevant to this specific contract  12.1 - Provisional <b>bills of quantities</b> [2.2] The quantities are provisional - <b><u>Yes</u></b>  12.2 - Availability of <b>construction information</b> [2.3] <b>Construction documentation</b> is complete - <b><u>No</u></b>  12.3 - Previous work - dimensional accuracy [3.1]  12.4 - Previous work - <b>defects</b> [3.2]  12.5 - Inspection of adjoining properties [3.3]  12.6 - Defined <b>works</b> area [4.1]  12.7 - Handover of <b>site</b> in stages [4.2]		
	<b>Carried Forward</b>		R
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<b>Brought Forward</b>	R
12.8 - Enclosure of the <b>works</b> [4.3]	
12.9 - Geotechnical investigation [4.4]	
12.10 - Existing premises occupied [4.6]	
12.11 - Services - known [4.7]	
12.12 - Protection of trees and/or relevant natural features [4.8]	
12.13 - Water [8.1]	
Option A (by <b>contractor</b> ) - <u><b>Yes</b></u>	
Option B (by <b>employer</b> - free of charge) - <u><b>No</b></u>	
Option C (by <b>employer</b> - metered) - <u><b>No</b></u>	
12.14 - Electricity [8.2]	
Option A (by <b>contractor</b> ) - <u><b>Yes</b></u>	
Option B (by <b>employer</b> - free of charge) - <u><b>No</b></u>	
Option C (by <b>employer</b> - metered) - <u><b>No</b></u>	
12.15 - Ablution and welfare facilities [8.3]	
Option A (by <b>contractor</b> ) - <u><b>Yes</b></u>	
Option B (by <b>employer</b> - free of charge) - <u><b>No</b></u>	
12.16 - Communication facilities [8.4]	
12.17 - Protection of the <b>works</b> [11.1]	
12.18 - Protection/isolation of existing/sectionally occupied <b>works</b> [11.2]	
Protection/isolation is required - <u><b>Yes</b></u>	
12.19 - Disturbance [11.5]	
<b>Carried Forward</b>	R
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<b>Brought Forward</b>				R
12.20 - Environmental disturbance [11.6]				
<b>Controlling all forms of pollution</b>				
The <b>contractor</b> shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution emanating from the <b>site</b> during the <b>construction period</b> due <i>inter alia</i> to noise, artificial light, wind-blown sand, dust, deposits of mud, etc				
The <b>contractor</b> is to ensure that all roads which border the <b>site</b> and is used by the <b>contractor</b> during the execution of the <b>works</b> are kept clean and free of any dirt or debris caused by the execution of the <b>works</b>				
F:..... V:..... T:.....	Item			
<b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b>				
<b>Section C</b>				
<b>Section C</b> contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item				
The warranty will not be enforced if the work is damaged by <b>defects</b> in the execution of the <b>works</b> , in which case the responsibility for replacement shall rest entirely with the <b>contractor</b>				
F:..... V:..... T:.....	Item			
1/1/74 Overtime				
Should overtime be required to be worked for any reason whatsoever, the cost of such overtime is to be borne by the <b>contractor</b> unless the <b>principal agent</b> has specifically authorised, prior to execution thereof, that costs for such overtime are to be borne by the <b>employer</b>				
F:..... V:..... T:.....	Item			
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**Brought Forward**

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1/1/75 Co-operation of the **contractor** for cost management

It is specifically agreed that the **contractor** accepts the obligation of assisting the **principal agent** in implementing proper cost management. The **contractor** will be advised by the **principal agent** of all cost management procedures which will be implemented to ensure that the **contract value** does not exceed the budget

F:..... V:.....  
T:.....

Item

1/1/76 Overloading

The **contractor** shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the **works** or temporary works eg scaffolding, etc. The **contractor** shall submit details of his proposed loading, storage, plant erection, etc to the **principal agent** for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the **principal agent's** requirements in connection with the provision of temporary support work, etc. Any damage caused to the **works** by overloading shall be made good by the **contractor** at his sole expense

F:..... V:.....  
T:.....

Item

1/1/77 Propping of floors below

The **contractor** is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of **materials and goods** and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the **principal agent** and the cost thereof shall be borne by the **contractor**

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T:.....

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1/1/78      Testing of flat roof waterproofing for watertightness

Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the **principal agent**, flooded with water and kept "ponded" for at least forty (40) hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing

F:..... V:.....  
T:.....

Item

The **contractor** is to submit to the **principal agent** on an annual basis a schedule of spend, split into vendors engaged as **subcontractors** and suppliers indicating their BBBEE rating including proof of the said rating

F:..... V:.....  
T:.....

Item

1/1/79      Advertising rights

The **employer** may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The **contractor** shall not prevent such an arrangement and will assist in the facilitation of same. Position and type of advertising structure to be agreed with the **principal agent** so as not to hinder the **contractor** in meeting the obligations under this **agreement**

F:..... V:.....  
T:.....

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1/1/80

**Confidentiality**

The **contractor** undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all **subcontractors** and suppliers. Such information shall not be used in any way except in connection with the execution of the **works**

No information regarding this project shall be published or disclosed without the prior written consent of the **employer**

F:..... V:.....  
T:.....

Item

1/1/81

**Media releases**

All rights of publication of articles in the media, together with any advertising relating thereto or in any way connected with this project, shall vest with the **employer**

The **contractor** together with his **subcontractors** shall not, without the prior written consent of the **employer**, cause any statement or advertisement connected with this project to be printed, screened or aired by the media

F:..... V:.....  
T:.....

Item

**SUMMARY OF CATEGORIES**

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

**Carried to Final Summary**

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	<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO.1</u></b></p> <p><b><u>ALTERATIONS (PROVISIONAL)</u></b></p> <p style="text-align: center;">-----</p> <p><b><u>WORK GROUP ALLOCATION</u></b></p> <p>Unless otherwise stated, all items in this Bill will be allocated to Work Group 102 - Alterations</p> <p><b><u>PREAMBLES</u></b></p> <p>The General Preambles for Trades (2017 edition), as published by the Association of South African Quantity Surveyors, shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items, fully described in the said General Preambles, will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>View site:</u></b></p> <p>Before submitting his tender, the Contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished.</p> <p>No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p>			
	<b>Carried Forward</b>			R
	<p>SECTION NO. 2            BUILDING WORKS            Bill No. 1            Alterations  <b>Inkonkoni Primary School</b></p>			

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Old materials to become property of the Contractor:</u></b></p> <p>Old materials from alterations, except where described as to be re-used or handed over, become the property of the Contractor, who must allow credit for same in the last item of the "Alterations" trade</p> <p><b><u>Old materials to be carted away:</u></b></p> <p>Old materials from the alterations, except where described as 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</p> <p><b><u>Old materials to be re-used:</u></b></p> <p>None of the old materials are to be used for new work, except where specifically described as being set aside for re-use</p> <p><b><u>Handing over of materials:</u></b></p> <p>Where certain materials or articles from demolitions or alterations are described as to be "handed over to the Employer", it shall be taken to mean "handed over by the Contractor to the Principal Agent" and such materials or articles shall be properly stored by the Contractor until handing over thereof and shall include all necessary transport</p> <p>The Contractor must obtain an official receipt from the Principal Agent listing the materials or articles and dates of handing over</p> <p>Should the Contractor fail to submit the receipt when requested to do so, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Employer for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor</p> <p><b><u>Explosives:</u></b></p> <p>No explosives whatsoever may be used for demolition purposes, unless otherwise stated</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>SECTION NO. 2          BUILDING WORKS          Bill No. 1          Alterations  <b>Inkonkoni Primary School</b></p>		R	

**DEVELOPMENT BANK OF SOUTH AFRICA**  
**INFRASTRUCTURE AND MAINTENANCE PROGRAMME**  
**INKONKONI PRIMARY SCHOOL**

Brought Forward

R

Carried Forward

R

SECTION NO. 2  
BUILDING WORKS  
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Alterations  
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<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>GENERAL</u></b></p> <p><u>Any water supplies pipes and other piping that may be met with and found necessary to disconnect or cut, shall be effectually stopped or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the Architect.</u></p> <p><u>The contractor shall carry out the whole of the work with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide and erect any temporary tarpaulins and temporary plumbing that may be necessary during the progress of the works, all to the satisfaction of the Architect, and remove when directed.</u></p> <p><u>Doors, fanlights, fittings, frames, linings, etc shall be thoroughly overhauled before re-fixing including taking off, easing and re-hanging, 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 wood to match timber.</u></p> <p><u>Where doors, windows, etc are described as taken out this shall be understood to include for removal of all beads, architraves, ironmongery, etc and doors which are re-fixed are to be provided with new architraves (elsewhere measured ).</u></p> <p><u>Prices for taking out and removing doors and frames shall include for removing door stops, cabin locks, etc and making good to match existing.</u></p> <p><u>With regard to building up openings in existing walls, cement screeds and pavings, granolithic, etc, shall be levelled and prepared for raising of brickwork.</u></p> <p><u>Allow for making good all existing plastered walls where damaged by furniture, etc, and stopping up all screw and holes before painting.</u></p>	R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>SECTION NO. 2          BUILDING WORKS          Bill No. 1          Alterations  <b>Inkonkoni Primary School</b></p>	R	

<b>Brought Forward</b>		R
<p><u>Making good finishes shall be deemed to include making good of the brick and concrete surfaces onto which new finishes are applied, where necessary.</u></p> <p><u>The contractor will be required to take all dimensions affecting existing building on the site and he will be held solely responsible for the accuracy of all such dimensions.</u></p> <p><b><u>Hazardous materials:</u></b></p> <p>Demolitions of buildings, services, external works, site services, etc are to include for the safe removal and disposal of <u>asbestos or asbestos products or other hazardous materials by approved Registered Specialists</u></p> <p style="text-align: center;">-----</p> <p><b><u>TEMPORARY BARRIERS, SCREENS, ETC</u></b></p> <p><b><u>Temporary barriers, screens, etc including removal:</u></b></p>		
2/1/1	Dust screen 2100mm high formed of suitable timber framing with 250 micron polyethylene sheeting stapled on including corners, ends, etc, to be used on all the phases of the construction project and in accordance to the Health and Safety specifications and regulations	m      839
<p><b><u>REMOVAL OF EXISTING WORK</u></b></p> <p><b><u>Taking out and removing doors, windows, etc including thresholds, sills, etc from brickwork (building up openings and making good finishes elsewhere):</u></b></p>		
2/1/2	Timber single door not exceeding 2,5m <sup>2</sup>	No      30
2/1/3	Timber single BIC door not exceeding 2,5m <sup>2</sup>	No      10
2/1/4	Timber single door and steel frame not exceeding 2,5m <sup>2</sup>	No      23
2/1/5	Metal sunscreen complete, size 600 x 2450mm High	No      40
<b>Carried Forward</b>		R
<p>SECTION NO. 2          BUILDING WORKS          Bill No. 1          Alterations  <b>Inkonkoni Primary School</b></p>		

**DEVELOPMENT BANK OF SOUTH AFRICA**  
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Brought Forward			R
<b><u>Taking out and removing doors, windows, etc including thresholds, sills, etc from brickwork (altering openings and making good finishes elsewhere):</u></b>			
2/1/6	Timber window frame not exceeding 2,5m <sup>2</sup>	No	48
2/1/7	Glazed steel window not exceeding 2,5m <sup>2</sup>	No	15
<b><u>Take out and remove existing pinning boards, chalkboards, bookshelving, etc.</u></b>			
2/1/8	2400 x 1200mm high pinning boards	No	33
2/1/9	2400 x 1200mm writing boards	No	16
2/1/10	4800 x 1200mm high chalk boards	No	15
<b><u>Taking down and removing large unit roof coverings, accessories, etc:</u></b>			
2/1/11	Asbestos roof covering including timber purlins	m <sup>2</sup>	1 899
2/1/12	Asbestos fascia boards not exceeding 300mm wide	m	246
<b><u>Taking down and removing rainwater goods, etc:</u></b>			
2/1/13	Asbestos gutters not exceeding 250mm girth including ends, bends, outlets, brackets, etc complete	m	218
2/1/14	Asbestos rainwater downpipes not exceeding 150mm diameter, including bends, shoes, brackets, etc complete [ LI ]	m	38
<b><u>Taking down and removing ceilings, partitions, etc:</u></b>			
2/1/15	Gypsum plasterboard ceilings, including cornices, timber bandering, etc.	m <sup>2</sup>	541
<b><u>Taking out and removing sundry joinery work, joinery fittings, etc:</u></b>			
2/1/16	Skirting	m	473
Carried Forward			R
SECTION NO. 2 BUILDING WORKS Bill No. 1 Alterations <b>Inkonkoni Primary School</b>			

**DEVELOPMENT BANK OF SOUTH AFRICA**  
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Brought Forward			R
<b><u>Taking up and removing floor coverings, etc from screeded floors:</u></b>			
2/1/17	Vinyl tile floor covering	m <sup>2</sup>	925
<b><u>Taking out/off and removing ironmongery:</u></b>			
2/1/18	Toilet paper holder from wall	No	21
2/1/19	Stainless steel urinal	No	1
<b><u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc:</u></b>			
2/1/20	25mm Screed from floors	m <sup>2</sup>	955
2/1/21	25mm Polished screed from floors	m <sup>2</sup>	115
<b><u>Hacking up/off and removing ceramic and porcelain tiles, including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc:</u></b>			
2/1/22	Tiles to floors	m <sup>2</sup>	30
2/1/23	Tiles to walls	m <sup>2</sup>	17
2/1/24	Tile skirtings 100mm high	m	93
<b><u>Taking out and removing piping, sanitary fittings, etc including cutting off as necessary, disconnecting piping from fittings and blocking off and making good damaged plasterwork to walls and screeds to floors (all redecoration work elsewhere):</u></b>			
2/1/25	Stainless steel wash hand basin, including short lengths of piping, etc.	No	9
2/1/26	Vitreous china wash hand basin, including short lengths of piping, etc.	No	9
2/1/27	Stainless steel sink and drainer including timber cupboard	No	1
Carried Forward			R
SECTION NO. 2 BUILDING WORKS Bill No. 1 Alterations <b>Inkonkoni Primary School</b>			

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<b>Brought Forward</b>			R
2/1/28	Vitreous china WC pan with flush valve, including short lengths of piping, etc.	No	21
2/1/29	Stainless steel slab urinal 1800 x 1200mm high, including breaking up and removing 300mm wide concrete urinal step	No	1
2/1/30	150 Litre hot water geyser mounted in roof space including drip tray, valves, connecting pipework, etc	No	1
2/1/31	15mm Cupboard-mounted sink mixer.	No	1
2/1/32	uPVC pipes not exceeding 160mm	m	63
<b><u>Taking out and removing electrical fittings, appliances, etc including disconnecting electrical cables and rendering safe:</u></b>			
2/1/33	Sundry electrical items		Item
			15 000.00
<b><u>Taking out/off and removing glass and mirrors:</u></b>			
2/1/34	Mirror 600 x 600mm high from wall	No	18
<b><u>ALTERING OPENINGS</u></b>			
<b><u>Altering openings including building in new prestressed concrete lintels and bonding new brickwork to existing, all as required:</u></b>			
2/1/35	Altering opening in one brick wall where two 1950 x 1150mm high steel windows removed to form opening for single window and frame by breaking out brickwork at bottom of window, including making good cement plaster on one side and into reveals and face brickwork on other side and into reveals and with 20 MPa concrete threshold with steel trowelled finish (making good paintwork elsewhere)	No	16
<b><u>MAKING GOOD OF FINISHES, ETC</u></b>			
<b><u>Making good untinted granolithic:</u></b>			
2/1/36	Floors in patches	m <sup>2</sup>	115
<b>Carried Forward</b>			R
SECTION NO. 2 BUILDING WORKS Bill No. 1 Alterations <b>Inkonkoni Primary School</b>			

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Brought Forward			R
<b><u>Making good internal/external cement plaster:</u></b>			
2/1/37	Walls in patches	m <sup>2</sup>	3 613
2/1/38	Walls with rough cast finish	m <sup>2</sup>	59
2/1/39	Walls with bagwash finish	m <sup>2</sup>	26
<b><u>Making good concrete:</u></b>			
2/1/40	Concrete works in patches	m <sup>2</sup>	389
2/1/41	Facebrick walls	m <sup>2</sup>	230
<b><u>Making good internal/external wall finishes:</u></b>			
<b><u>GENERAL REPAIRWORK</u></b>			
<b><u>Repairwork to existing brick walls:</u></b>			
2/1/42	Waterjetting surfaces of existing facebrick walls with high pressure low-volume water jetting lance to remove all dirt, brushing down and washing to remove surface contamination, mould, fungus, damp and treating with two coats of antifungal wash and leaving perfectly clean on completion	m <sup>2</sup>	1 473
2/1/43	Refurbish existing 700mm high balustrades complete	m	25
<b><u>Repairwork to existing balustrades:</u></b>			
<b><u>ALTERATIONS, SERVICING AND REPAIRWORK TO EXISTING DOORS, FRAMES AND WINDOWS</u></b>			
<b><u>Notes:</u></b>			
The removal and reinstatement of doors, frames, windows, etc. for the purpose of altering, servicing and/or repairing are measured elsewhere			
The removal of ironmongery, glass, putty, etc. and the refixing, reglazing and redecorating of existing doors, frames, windows, etc. are all measured elsewhere			
Carried Forward			R
SECTION NO. 2 BUILDING WORKS Bill No. 1 Alterations <b>Inkonkoni Primary School</b>			

<b>Brought Forward</b>	R
Repairing and/or replacement of existing ironmongery is measured elsewhere	
<b><u>Supplementary Preambles:</u></b>	
Repairwork to timber to include for the following, unless otherwise described:	
1. Timber used in repairs is to match existing in type, moisture content, colour and grain as closely as possible	
2. Approved modern, high-strength waterproof glues which can accommodate any timber movement should be used together with sawdust filler of matching timber	
3. Only non-corrosive fixings are to be used	
4. All clamping and pinning as necessary	
<b><u>EXISTING STEEL WINDOWS</u></b>	
<b><u>References:</u></b>	
References in descriptions of windows, doors, gates, etc. refer to the respective types of windows, doors, etc. detailed in the Architect's window schedules numbered	
• 1048-001-0012	
• 1048-001-0013	
• 1048-001-0014	
Tenderers are to price the following items in conjunction with the above Architect's drawings, etc. and no claim arising from brevity of descriptions in these bills of quantities, of items shown on the Architect's drawings, etc. shall be entertained	
<b>Carried Forward</b>	R
SECTION NO. 2 BUILDING WORKS Bill No. 1 Alterations <b>Inkonkoni Primary School</b>	

**DEVELOPMENT BANK OF SOUTH AFRICA**  
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Brought Forward			R
<p><b><u>Servicing of existing windows including thoroughly cleaning down of all dirt, scale and general contamination from all surfaces, pulleys, handles, rods, fanlight openers, catches, etc and servicing and lubricating all moving parts, carefully removing all paint from and polishing all brassware and replacing of damaged or missing screws, nuts, etc (repairing or replacement of existing ironmongery, removal of glass, putty, etc reglazing and preparing for and redecorating of existing frames, sashes, etc all elsewhere measured):</u></b></p>			
2/1/44	Window size 1000 x 1000mm high overall with burglar bars (W01)	No	21
2/1/45	Ditto, but size 1000 x 1400mm high overall with burglar bars (W02)	No	18
2/1/46	Ditto, but size 1000 x 1150mm high overall (W03)	No	80
2/1/47	Ditto, but size 970 x 550mm high overall (W05)	No	2
2/1/48	Ditto, but size 1000 x 550mm high overall (W06)	No	5
2/1/49	Ditto, but size 920 x 1000mm high overall (W09)	No	2
2/1/50	Ditto, but size 600 x 1200mm high overall (W10)	No	2
<p><b><u>SERVICING, ETC OF EXISTING IRONMONGERY</u></b></p>			
<p><b><u>Sundry Builder's Work:</u></b></p>			
2/1/51	Roller shutter door, 6350 x 2850mm high including all necessary ironmongery	No	1
2/1/52	Prepare and fill up existing waste water channel with mass concrete and prepare for screeding	m	24
<p><b>Carried Forward to Summary of Section No.</b></p>			R
<p>SECTION NO. 2          BUILDING WORKS          Bill No. 1          Alterations  <b>Inkonkoni Primary School</b></p>			

Item No	Quantity	Rate	Amount R
<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO. 2</u></b></p> <p><b><u>MASONRY</u></b></p> <p style="text-align: center;">-----</p> <p><b><u>WORK GROUP ALLOCATION</u></b></p> <p>Unless otherwise stated, all items in this Bill will be allocated to Work Group 116 - Brick and Blockwork</p> <p><b><u>PREAMBLES</u></b></p> <p>The General Preambles for Trades (2017 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>BRICKWORK</u></b></p> <p><b><u>General:</u></b></p> <p>Non-load bearing brickwork is to be built to full height less 20mm gap next to the ceiling and is to be left for 14 days before grouting up in 1:3 cement mortar.</p> <p><b><u>Sizes in descriptions:</u></b></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p>			
	<b>Carried Forward</b>		R
<p>SECTION NO. 2            BUILDING WORKS            Bill No. 2            Masonry  <b>Inkonkoni Primary School</b></p>			

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Hollow walls:</u></b></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole</p> <p><b><u>Bagged and sealed walls:</u></b></p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating</p> <p><b><u>Face bricks :</u></b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p>All face brickwork shall be regularly cleaned down as the work proceeds and shall be protected as necessary by an approved method</p> <p><b><u>Pointing:</u></b></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include smooth floated square recessed, hollow recessed, weathered pointing, etc</p> <p><b><u>BLOCKWORK</u></b></p> <p><b><u>Concrete masonry units:</u></b></p> <p>Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7MPa</p>	R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>SECTION NO. 2          BUILDING WORKS          Bill No. 2          Masonry  <b>Inkonkoni Primary School</b></p>	R	

**Brought Forward**

R

**Wall ties for blockwork:**

Wall ties shall be polypropylene ties complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other

**Blockwork:**

Blockwork shall comply with SANS 10145 "Concrete Masonry Construction"

Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole

**Standard complementary blocks:**

Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary

**DECORATIVE BLOCKS**

Blocks shall be of approved manufacture, sound, well burnt or cured and uniform and true in size, shape and colour

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**SUPERSTRUCTURE**

**FACE BRICKWORK**

**Carried Forward**

R

SECTION NO. 2  
BUILDING WORKS  
Bill No. 2  
Masonry  
**Inkonkoni Primary School**

	Brought Forward			R
2/2/1	<p><b><u>External face bricks (Allow a Prime Cost Amount of R8500/1000 bricks delivered to site) pointed with recessed horizontal and vertical joints:</u></b></p> <p>Extra over brickwork for face brickwork</p>	m <sup>2</sup>	230	
<b>Carried Forward to Summary of Section No.</b>				R
SECTION NO. 2 BUILDING WORKS Bill No. 2 Masonry <b>Inkonkoni Primary School</b>				

Item No		Quantity	Rate	Amount R
	<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO. 3</u></b></p> <p><b><u>ROOF COVERINGS</u></b></p> <p style="text-align: center;">-----</p> <p><b><u>WORK GROUP ALLOCATION</u></b></p> <p>The items in this Bill will be allocated to Work Groups as indicated in brackets at the ends of headings or descriptions</p> <p><b><u>PREAMBLES</u></b></p> <p>The General Preambles for Trades (2017 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Profiled metal roof sheeting and accessories shall be supplied with a 10 year guarantee and be installed by an approved installer</p> <p>All fixing holes shall be drilled and not punched</p> <p>Roof covering accessories shall be manufactured from the same material as used for roof covering</p> <p style="text-align: center;">-----</p>			
	<b>Carried Forward</b>			R
	<p>SECTION NO. 2            BUILDING WORKS            Bill No. 3            Roof Coverings  <b>Inkonkoni Primary School</b></p>			

Brought Forward			R
<b><u>PROFILED METAL SHEETING AND ACCESSORIES (WORK GROUP 124)</u></b>			
<b><u>0,53mm "Klip-Lok 700" profile Z200 spelter galvanised steel light industrial troughed interlocking roof sheeting in single lengths and accessories, with "Chromadek" finish to one side, fixed to timber purlins:</u></b>			
2/3/1	Roof coverings with pitch not exceeding 25 degrees	m <sup>2</sup>	1 908
<b><u>Accessories:</u></b>			
2/3/2	Ridge capping 462mm girth	m	143
2/3/3	Hip cappings 462mm girth	m	119
2/3/4	Narrow and broad flute closers	m	285
2/3/5	Narrow and broad flute closers, raking at valleys or hips	m	238
<b><u>ROOF AND WALL INSULATION (WORK GROUP 122)</u></b>			
<b><u>Heavy industrial grade aluminium foil based insulation:</u></b>			
2/3/6	135mm Non-combustible lightweight polyester blanket and foil insulation fitted over 38 x 38mm timber purlins	m <sup>2</sup>	1 844
<b>Carried Forward to Summary of Section No.</b>			R
SECTION NO. 2 BUILDING WORKS Bill No. 3 Roof Coverings <b>Inkonkoni Primary School</b>			

Item No	Quantity	Rate	Amount R
<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO. 4</u></b></p> <p><b><u>CARPENTRY AND JOINERY</u></b></p> <p style="text-align: center;">-----</p> <p><b><u>WORK GROUP ALLOCATION</u></b></p> <p>Unless otherwise stated, all items in this Bill will be allocated to Work Group 126 - Carpentry &amp; Joinery</p> <p><b><u>PREAMBLES</u></b></p> <p>The General Preambles for Trades (2017 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Fixing:</u></b></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given separately elsewhere</p>			
			R
	<b>Carried Forward</b>		
<p>SECTION NO. 2            BUILDING WORKS            Bill No. 4            Carpentry and Joinery  <b>Inkonkoni Primary School</b></p>			

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Joinery:</u></b></p> <p>Descriptions of frames shall be deemed to include frames, transomes, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts</p> <p><b><u>Particle board</u></b></p> <p>All particle board shall comply with SANS 50312 having the required marking as per SANS 50312/EN 312</p> <p><b><u>Decorative thermosetting plastic laminate covering:</u></b></p> <p>Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish</p> <p><b><u>Sizes:</u></b></p> <p>Sizes are nominal and the Contractor shall make allowance in his prices for minor variances in stated finished sizes of timber doors, door members, door frames, architraves, etc</p> <p><b><u>Prices</u></b></p> <p>Prices for all joinery work are to include for general framing, housing and notching, arris rounded angles, glueing, blocking, planting on, screwing, adhesives, dowels, pellets, cross tongues, screws and nails and setting up complete and also for all square cutting and waste. Tops shall be secured with metal or hardwood buttons.</p> <p style="text-align: center;">-----</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>SECTION NO. 2          BUILDING WORKS          Bill No. 4          Carpentry and Joinery  <b>Inkonkoni Primary School</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>ROOFS, ETC</u></b></p> <p><b><u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION, ETC</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Trusses are at maximum 950mm centres</p> <p>The roof covering is "Klip-lok 700" or similar approved on 38 x 76mm timber purlins with a pitch of 12 to 22 degrees</p> <p>Ceilings are mostly 6mm fibre-cement sheeting on 38 x 50mm brandering and suspended ceilings with 12,7mm thick "Donn Downshield" vinyl clad panels with 25mm thick polystyrene insulation backing</p> <p>References given in descriptions refer to the respective types of trusses detailed on the Architect's/Engineer's drawings numbered and accompanying these bills of quantities for tender purposes</p> <p>Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the Architect/Engineer and/or taken on site before design or fabrication commences</p> <p>All trusses are to be fabricated/manufactured in a factory by "Gangnail" Specialists approved by the Architect</p> <p>All trusses shall be designed by a Registered Professional Engineer and in accordance with SABS 0163: Code of Practice for the Design of Timber Structures</p> <p>The Manufacturer of the trusses shall supply a written guarantee that the trusses are designed, manufactured and erected to support the roof covering specified</p> <p>The guarantee shall be valid for a period of 10 (ten) years</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>SECTION NO. 2          BUILDING WORKS          Bill No. 4          Carpentry and Joinery  <b>Inkonkoni Primary School</b></p>		R	

**DEVELOPMENT BANK OF SOUTH AFRICA**  
**INFRASTRUCTURE AND MAINTENANCE PROGRAMME**  
**INKONKONI PRIMARY SCHOOL**

<b>Brought Forward</b>		R
<p><b><u>The following in plate nailed sawn softwood (grade 5) timber roof construction designed, supplied, delivered and erected complete, including trusses, jack trusses, rafters, jack rafters and permanent and temporary bracing, etc (purlins and wall plates elsewhere measured):</u></b></p>		
2/4/1	Pitched roof construction over rectangular-shaped building approximately 25120mm long x 7745mm wide on plan x 1660mm high extreme (from top of wall plate to ridge) comprising ridges, gables, hips, valleys, wall plates and purlins, etc (over Senior Classroom Block - Block C) (Refer to Architect's drawings 1048-001-0004)	m <sup>2</sup> 187
2/4/2	Flat roof construction over rectangular-shaped building approximately 25, 120mm long x 2250mm wide on plan comprising ridges, gables, hips, valleys, wall plates and purlins, etc (over Senior Classroom Block Veranda - Block C) (Refer to Architect's drawings 1048-001-0004)	m <sup>2</sup> 57
2/4/3	Mono pitched roof construction over rectangular-shaped building approximately 11925mm long x 4575mm wide on plan x 1850mm high extreme (from top of wall plate to ridge) comprising wall plates and purlins, etc. (over Girls and Boys Ablutions - Block D) (Refer to Architect's drawings 1048-001-0005)	m <sup>2</sup> 109
2/4/4	Flat roof construction over rectangular-shaped building approximately 9190mm long x 3960mm wide on plan x 1850mm high extreme (from top of wall plate to ridge) comprising wall plates and purlins, etc. (over Security and Kitchen - Block F) (Refer to Architect's drawings 1048-001-0006)	m <sup>2</sup> 36
2/4/5	Pitched roof construction over rectangular-shaped building approximately 34000mm long x 9530mm wide on plan x 2055mm high extreme (from top of wall plate to ridge) comprising ridges, gables, hips, valleys, wall plates and purlins, etc. (over Administration and Grade R Block) (Refer to Architect's drawing 1048-001-0007)	m <sup>2</sup> 324
<b>Carried Forward</b>		R
<p>SECTION NO. 2          BUILDING WORKS          Bill No. 4          Carpentry and Joinery  <b>Inkonkoni Primary School</b></p>		

**DEVELOPMENT BANK OF SOUTH AFRICA**  
**INFRASTRUCTURE AND MAINTENANCE PROGRAMME**  
**INKONKONI PRIMARY SCHOOL**

		<b>Brought Forward</b>		R
2/4/6	Pitched roof construction over rectangular-shaped building approximately 29850mm long x 10600mm wide on plan x 2170mm high extreme (from top of wall plate to ridge) comprising ridges, gables, hips, valleys, wall plates and purlins, etc. (over Classroom Block - Block A) (Refer to Architect's drawing 1048-001-0008)	m <sup>2</sup>	316	
2/4/7	Pitched roof construction over rectangular-shaped building approximately 29850mm long x 10600mm wide on plan x 2170mm high extreme (from top of wall plate to ridge) comprising ridges, gables, hips, valleys, wall plates and purlins, etc. (over Classroom Block - Block E) (Refer to Architect's drawing 1048-001-0009)	m <sup>2</sup>	316	
2/4/8	Allow for guarantee, as described		Item	
<b><u>EAVES, VERGES, ETC</u></b>				
<b><u>Medium density plain fibre-cement fascias and barge boards:</u></b>				
2/4/9	19 x 235mm Fascias and barge boards, including aluminium H-profile jointing strips [ LI ]	m	453	
<b><u>FLOORS, ETC</u></b>				
<b><u>SKIRTINGS</u></b>				
<b><u>Wrought meranti:</u></b>				
2/4/10	19 x 76mm Skirting including 19mm quadrant bead, nailed	m	628	
<b><u>DOORS, ETC</u></b>				
<b><u>Semi-solid hardwood door with slatted panels both sides and concealed edges to suit opening, door fitted with 3x hinges per leaf all to specialist (Colour by architect)</u></b>				
2/4/11	40mm Door 900 x 2025mm high (TP-01)	No	28	
2/4/12	40mm Door 820 x 2025mm high (TP-02)	No	4	
		<b>Carried Forward</b>		R
SECTION NO. 2 BUILDING WORKS Bill No. 4 Carpentry and Joinery <b>Inkonkoni Primary School</b>				

Brought Forward			R
<b><u>Semi-solid timber door with slatted panels both sides and concealed edges to suit opening, door fitted with 3x hinges per leaf all to specialist (Colour by architect)</u></b>			
2/4/13	40mm Door 820 x 2025mm high (TP-03)	No	3
2/4/14	40mm Door 820 x 2025mm high (TP-04)	No	16
2/4/15	40mm Door 1020 x 2025mm high (TP-04)	No	1
<b><u>NOTICEBOARDS, KEYBOARDS, ETC</u></b>			
<b><u>Pinning boards:</u></b>			
2/4/16	Pinning board 900 x 1200mm high overall formed of 9mm thick "Flortime Premier" pinning material fixed to brickwork with suitable contact adhesive and framed with aluminium frame, plugged [ LI ]	No	17
<b><u>White boards:</u></b>			
2/4/17	1200 x 3000mm white board with aluminium frame and pen tray, magnetic, fixed to wall as per manufacturer's specification [ LI ]	No	16
2/4/18	Non-Magnetic chalkboard, 3660 x 1220mm high	No	16
<b>Carried Forward to Summary of Section No.</b>			R
SECTION NO. 2 BUILDING WORKS Bill No. 4 Carpentry and Joinery <b>Inkonkoni Primary School</b>			

Item No	Quantity	Rate	Amount R
<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO. 5</u></b></p> <p><b><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></b></p> <p style="text-align: center;">-----</p> <p><b><u>WORK GROUP ALLOCATION</u></b></p> <p>Unless otherwise stated, all items in this Bill will be allocated to Work Group 129 - Ceilings</p> <p><b><u>PREAMBLES</u></b></p> <p>The General Preambles for Trades (2017 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Fixing:</u></b></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given separately elsewhere</p>			
			R
	<b>Carried Forward</b>		
<p>SECTION NO. 2            BUILDING WORKS            Bill No. 5            Ceilings, Partitions and Access Flooring  <b>Inkonkoni Primary School</b></p>			

	<b>Brought Forward</b>		R	
	<p><b><u>Ceilings:</u></b></p> <p>Unless otherwise described, ceilings shall be deemed to be horizontal</p> <p><b><u>Bulkheads:</u></b></p> <p>Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. Their purpose is either to conceal services or to create architectural features</p> <p>Bulkheads have only been described as such where they conform to the above definition and where the horizontal, vertical or sloping dimensions do not exceed 1200mm. Where these dimensions are more than 1200mm such portions of ceilings have been included in the appropriate general items of ceilings</p> <p>Unless otherwise described, bulkheads shall be deemed to be horizontal along the length</p> <p><b><u>Openings:</u></b></p> <p>Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc</p> <p><b><u>Steel components:</u></b></p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121</p> <p style="text-align: center;">-----</p> <p><b><u>INSULATION</u></b></p> <p><b><u>Non-combustible fibreglass insulation of a density of not less than 10kg/m3 bonded with an inert thermo-setting resin:</u></b></p>			
2/5/1	120mm Insulation in blanket form, closely fitted and laid on top of branderling between roof timbers, etc [ LI ]	m <sup>2</sup>	1 250	
	<b>Carried Forward</b>		R	
	<p>SECTION NO. 2            BUILDING WORKS            Bill No. 5            Ceilings, Partitions and Access Flooring  <b>Inkonkoni Primary School</b></p>			

**DEVELOPMENT BANK OF SOUTH AFRICA**  
**INFRASTRUCTURE AND MAINTENANCE PROGRAMME**  
**INKONKONI PRIMARY SCHOOL**

**Brought Forward**

R

**Carried Forward**

R

SECTION NO. 2  
BUILDING WORKS  
Bill No. 5  
Ceilings, Partitions and Access Flooring  
**Inkonkoni Primary School**

Brought Forward

R

**NAILED UP CEILINGS**

**9.5mm Thick flush plaster gypsum or similar approved ceiling, apply Rhino tape to all joints and skim the ceiling using similar approved Rhinolite, skimmed and prepared to receive two coats quality PVA paint. Ceiling grid to be 1200 c/c. All in accordance with manufacturer's specification and requirements.**

2/5/2	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres and cross brandering at 400mm centres	m <sup>2</sup>	1 220	
2/5/3	Extra over ceiling for 600 x 600mm trap door of 38 x 38mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around [ LI ] 428.40	No	19	
	<b><u>Gypsum plasterboard cornices:</u></b>			
2/5/4	75mm Coved cornices	m	556	

**SUSPENDED CEILINGS**

**SUPPLEMENTARY PREAMBLES**

**Proprietary suspended ceilings:**

Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations

Electrical light fittings, diffusers, panels, etc are generally "lay-in" units of the same dimensions as the suspension grid described and an allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)

Carried Forward

R

SECTION NO. 2  
 BUILDING WORKS  
 Bill No. 5  
 Ceilings, Partitions and Access Flooring  
**Inkonkoni Primary School**

	<b>Brought Forward</b>				
	<p><b><u>Flush plastered gypsum plasterboard suspended ceilings:</u></b></p> <p>Ceilings shall comprise 12,5mm gypsum plasterboard boards screwed to and including screw-up suspension grid consisting of main tees at 1200mm centres and galvanised steel capped cross tees at 400mm centres and with tape fixed over joints and the whole finished with gypsum plaster trowelled to a smooth polished surface</p> <p>The grid shall be suspended by means of galvanised steel L-section hangers at suitable centres, securely shot-pinned or screwed to concrete, steel or wood</p> <p><b><u>Flush plastered gypsum plasterboard suspended bulkheads:</u></b></p> <p>Bulkheads shall comprise galvanised steel studding of 63,5mm top and bottom tracks with vertical studs at maximum 400mm centres, pop-riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc and covered as described with plasterboard screwed to studding with drywall screws at maximum 300mm centres. Boards shall be butt jointed and finished with tape and jointing compound and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer</p> <p>Descriptions shall be deemed to include any additional studs at ends and intersections, corner beads, cornices at junctions with ceilings, jointing compound, tape, etc</p> <p style="text-align: center;">-----</p> <p><b><u>600 x 1200 x 12mm pre-painted acoustic panels on exposed suspension grid system including hangers, necessary hold-down clips and wedges, etc:</u></b></p>			R	
2/5/5	Ceilings suspended not exceeding 1m below timber purlins at 950mm centres (trusses at 1000m centres)	m <sup>2</sup>	30		
	<b>Carried Forward to Summary of Section No.</b>			R	
	SECTION NO. 2 BUILDING WORKS Bill No. 5 Ceilings, Partitions and Access Flooring <b>Inkonkoni Primary School</b>				

Item No	Quantity	Rate	Amount R
<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO. 6</u></b></p> <p><b><u>FLOOR COVERINGS, WALL LININGS, ETC</u></b></p> <p style="text-align: center;">-----</p> <p><b><u>WORK GROUP ALLOCATION</u></b></p> <p>Unless otherwise stated, all items in this Bill will be allocated to Work Group 130 - Resilient floor and wall coverings</p> <p><b><u>PREAMBLES</u></b></p> <p>The General Preambles for Trades (2017 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Proprietary items:</u></b></p> <p>Where applicable, the manufacturers' names or product catalogue titles are given in sub-headings preceding the items</p> <p>Note that the manufacturers names specified in this trade are for the purposes of competitive pricing.</p> <p>Prices are to be based on the specific products/articles specified.</p> <p>On request, returnable samples are to be provided to the Project Manager for consideration</p>			
			R
		<b>Carried Forward</b>	
<p>SECTION NO. 2            BUILDING WORKS            Bill No. 6            Floor Coverings  <b>Inkonkoni Primary School</b></p>			

**Brought Forward**

R

**Fixing:**

Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc

**Woodblock flooring:**

Woodblock flooring shall be fixed with bitumen or "Wakol MS 230" or similar approved adhesive

**Sanding:**

Sanding shall be done by using dustless sanders

Where woodblock flooring is to be laid in areas which were previously covered by woodblocks, there may still be traces of existing bitumen and/or adhesive on the floor. The substrate must therefor be suitably prepared for the proper relaying of woodblock flooring and prices must include therefor, all to the approval of the Principal Agent

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**FLOOR COVERINGS**

**608 x 608 x 2mm Antistatic semi flexible vinyl tiles:**

2/6/1	On floors	m <sup>2</sup>	925
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**POLISH, SEALERS, ETC**

2/6/2	Two coats wax polish on vinyl flooring	m <sup>2</sup>	925
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**Carried Forward to Summary of Section No.**

R

SECTION NO. 2  
 BUILDING WORKS  
 Bill No. 6  
 Floor Coverings  
**Inkonkoni Primary School**

Item No	Quantity	Rate	Amount R
<b><u>SECTION 2</u></b>			
<b><u>BILL NO. 7</u></b>			
<b><u>IRONMONGERY</u></b>			
-----			
<b><u>WORK GROUP ALLOCATION</u></b>			
Unless otherwise stated, all items in this Bill will be allocated to Work Group 132 - Ironmongery			
<b><u>PREAMBLES</u></b>			
The General Preambles for Trades (2017 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained			
The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary items:</u></b>			
Where applicable, the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
Note that the manufacturers names specified in this trade are for the purposes of competitive pricing.			
Prices are to be based on the specific products/articles specified.			
On request, returnable samples are to be provided to the Project Manager for consideration			
<b>Carried Forward</b>			R
SECTION NO. 2 BUILDING WORKS Bill No. 7 Ironmongery <b>Inkonkoni Primary School</b>			

**Brought Forward**

R

**Locks:**

Notwithstanding Clause 2, Item 3 of the "Ironmongery" trade of the "Standard System of Measuring Building Work, Seventh Edition", descriptions of locks shall be deemed to include two keys per lock

**Finishes to ironmongery:**

Where applicable, finishes to ironmongery are indicated by suffixes in accordance with the following list:

- BS Satin bronze lacquered
- CH Chromium plated
- SC Satin chromium plated
- SE Silver enamelled
- GE Grey enamelled
- AN Anodised natural
- AS Anodised silver
- AB Anodised bronze
- AG Anodised gold
- ABL Anodised black
- PB Polished brass
- PL Polished and lacquered
- PT Epoxy coated
- SD Sanded
- BBS Brushed stainless steel

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**HINGES, BOLTS, ETC**

2/7/1	150mm Stainless steel flush lever bolt	No	45
2/7/2	300mm Stainless steel flush lever bolt	No	45
<b><u>"Union" or similar approved:</u></b>			
2/7/3	"Ref. AL8098" Surface mounted aluminium indicator bolt set	No	4
2/7/4	"Ref. CZ80941SCR" Sliding indicator bolt set	No	27

**Carried Forward**

R

SECTION NO. 2  
 BUILDING WORKS  
 Bill No. 7  
 Ironmongery  
**Inkonkoni Primary School**

**DEVELOPMENT BANK OF SOUTH AFRICA**  
**INFRASTRUCTURE AND MAINTENANCE PROGRAMME**  
**INKONKONI PRIMARY SCHOOL**

Brought Forward			R
<b><u>LOCKS</u></b>			
2/7/5	Commercial cylinder sash lock	No	45
<b><u>"Calini" or similar approved:</u></b>			
2/7/6	"Ref. IW2051" double cylinder suitable for master key	No	45
<b><u>HANDLES</u></b>			
<b><u>"Union Assa Abloy" or similar approved:</u></b>			
2/7/7	"Ref.AL6D67-05A5" anodised aluminium pull handle with back plates	No	33
<b><u>PUSH PLATES AND KICK PLATES</u></b>			
<b><u>1,2mm Thick satin finished stainless steel plates countersunk screwed along edges at not exceeding 200mm centres:</u></b>			
2/7/8	820 x 300mm Push plate	No	24
2/7/9	820 x 300mm Kick plate	No	16
2/7/10	1020 x 300mm Kick plate	No	1
2/7/11	1020 x 300mm Push plate	No	1
<b><u>DOOR CLOSERS</u></b>			
<b><u>"Union Assa Abloy" or similar approved:</u></b>			
2/7/12	"Ref. 7770" door closer	No	3
<b><u>SUNDRIES</u></b>			
<b><u>"Union Assa Abloy" or similar approved:</u></b>			
2/7/13	"Ref. 99022SS" door stop, plugged	No	20
Carried Forward			R
SECTION NO. 2 BUILDING WORKS Bill No. 7 Ironmongery Inkonkoni Primary School			

Brought Forward

R

**BATHROOM FITTINGS**

**"Franke" or similar approved:**

2/7/14	"Ref. EXOS618X" soap dispenser, plugged	No	12
2/7/15	"Ref. STRX672" stainless steel lockable toilet roll holder, plugged	No	21
2/7/16	"Ref. RODX602 " paper towel dispenser and waste bin combination, plugged	No	8
2/7/17	"Ref. BS611V" stainless steel sanitary towel disposal bin, plugged	No	15
2/7/18	32mm "Ref. CNTX750" stainless steel back grab rail 750mm long, plugged	No	1
2/7/19	32mm "Ref. CNTX700A" stainless steel side grab rail 874mm girth, plugged	No	1

**Carried Forward to Summary of Section No.**

R

SECTION NO. 2  
 BUILDING WORKS  
 Bill No. 7  
 Ironmongery  
**Inkonkoni Primary School**

Item No	Quantity	Rate	Amount R
<b><u>SECTION 2</u></b>			
<b><u>BILL NO. 8</u></b>			
<b><u>METALWORK</u></b>			
-----			
<b><u>WORK GROUP ALLOCATION</u></b>			
Unless otherwise stated, all items in this Bill will be allocated to Work Group 136 - Metalwork			
<b><u>PREAMBLES</u></b>			
The General Preambles for Trades (2017 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained			
The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Descriptions of bolts, anchors, etc:</u></b>			
Descriptions of bolts shall be deemed to include nuts and washers			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
Items described as "holed for bolt(s)" shall be deemed to exclude the bolts, unless otherwise described			
<b>Carried Forward</b>			R
SECTION NO. 2 BUILDING WORKS Bill No. 8 Metalwork <b>Inkonkoni Primary School</b>			

<p style="text-align: center;"><b>Brought Forward</b></p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres</p> <p><b><u>Fixing:</u></b></p> <p>Unless otherwise described, descriptions of items shall be deemed to include for fixing to brickwork or concrete</p> <p>Where items are described as "bolted", the bolts are measured elsewhere as stated in clause N.7 of the Model Preambles</p> <p><b><u>References:</u></b></p> <p>References in descriptions of windows, doors, gates, etc refer to the respective types of windows, doors, etc detail and bound into the back of these bills of quantities.</p> <p>Tenderers are to price the following items in conjunction with the Architect's drawings, etc and no claim arising from brevity of descriptions in these bills of quantities, of items shown on the Architect's drawings, etc shall be entertained and bound into the back of these bills of quantities</p> <p>Tenderers are to price the following items in conjunction with the Architect's drawings, etc and no claim arising from brevity of descriptions in these bills of quantities, of items shown on the Architect's drawings, etc shall be entertained</p> <p style="text-align: center;">-----</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>SECTION NO. 2          BUILDING WORKS          Bill No. 8          Metalwork  <b>Inkonkoni Primary School</b></p>		R	

Brought Forward			R
<b><u>STEEL BALUSTRADES</u></b>			
<b><u>Welded and bolted patent balustrades to walkways and stairs:</u></b>			
2/8/1	Horizontal balustrades 1000mm high, formed of continuous pipe top and bottom rails and stanchions bolted to concrete (bolts elsewhere)	m	50
2/8/2	Raking balustrades 1000mm high, formed of continuous pipe top and bottom rails and stanchions bolted to concrete (bolts elsewhere)	m	25
2/8/3	Extra over for 45 degree bend	No	12
2/8/4	Extra over for 45 degree ramp bend	No	21
2/8/5	Extra over for end closure to horizontal balustrade	No	11
2/8/6	Extra over for end closure to raking balustrade	No	15
2/8/7	16mm Expansion bolt	No	187
2/8/8	16mm Chemical anchor with loose bolt	No	187
<b><u>STEEL GATES, SCREENS, ETC</u></b>			
<b><u>Epoxy coated welded screens and gates, to brickwork:</u></b>			
2/8/9	Single gate 900 x 2100mm high overall for single door, formed of 50 x 50 x 6mm square section frame and square section horizontal middle rail, filled in with 19mm diameter circular section vertical bars at 100mm centres and fitted with 25 x 3 x 200mm long lugs welded to angle iron and built into wall, including all ironmongery	No	8
2/8/10	Double gate 1840 x 2125mm high, each leaf formed of 50 x 50 x 6mm square section frame and square section horizontal middle rail, filled in with 19mm diameter circular section vertical bars at 100mm centres and fitted with 25 x 3 x 200mm long lugs welded to angle iron and built into wall, including all ironmongery	No	1
Carried Forward			R
SECTION NO. 2 BUILDING WORKS Bill No. 8 Metalwork Inkonkoni Primary School			

**DEVELOPMENT BANK OF SOUTH AFRICA**  
**INFRASTRUCTURE AND MAINTENANCE PROGRAMME**  
**INKONKONI PRIMARY SCHOOL**

**Brought Forward**

2/8/11	Security wire mesh installed above ceiling	m <sup>2</sup>	30	
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**PRESSED STEEL DOOR FRAMES**

**1.6mm Rebated frames suitable for half brick walls:**

2/8/12	Frame for door size 900 x 2100mm high (TP-02)	No	1	
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2/8/13	Frame for door 900 x 2100mm high (TP-04)	No	16	
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**1.6mm Rebated frames suitable for one brick walls:**

2/8/14	Frame for door 900 x 2100mm high (TP-01)	No	6	
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R

**Carried Forward to Summary of Section No.**

SECTION NO. 2  
 BUILDING WORKS  
 Bill No. 8  
 Metalwork  
**Inkonkoni Primary School**

R

Item No	Quantity	Rate	Amount R
<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO. 9</u></b></p> <p><b><u>PLASTERING</u></b></p> <p style="text-align: center;">-----</p> <p><b><u>WORK GROUP ALLOCATION</u></b></p> <p>Unless otherwise stated, all items in this Bill will be allocated to Work Group 142 - In situ finishes</p> <p><b><u>PREAMBLES</u></b></p> <p>The General Preambles for Trades (2017 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Moisture tests:</u></b></p> <p>Before any finishes, coverings, etc are applied to screeds, plastering, etc or any other in-situ finish, moisture tests are to be carried out to the complete satisfaction of the Project Manager to ensure that these surfaces have the correct moisture content for the finish to be applied</p> <p><b><u>Labours, etc</u></b></p> <p>Labours such as fair, rounded and chamfered edges, trowel cuts, throats, V-joints, angles, etc shall be deemed to be included in the descriptions</p>			
	<b>Carried Forward</b>		R
<p>SECTION NO. 2            BUILDING WORKS            Bill No. 9            Plastering  <b>Inkonkoni Primary School</b></p>			

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Sample Panels</u></b></p> <p>A sample panel size 1m x1m, of each of the various plaster type wall and floor finishes in this contract, shall be prepared for the approval of the Project Manager and the cost of the sample panel(s) shall be deemed to be included in the overall costs of the <u>relevant</u> wall and floor finishes</p> <p><b><u>GRANOLITHIC</u></b></p> <p><b><u>Method:</u></b></p> <p>The method to be used shall be either the monolithic method or the bonded method</p> <p><b><u>Preparation:</u></b></p> <p>For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic</p> <p><b><u>Mix:</u></b></p> <p>Unless otherwise described, granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic</p>				R
<p style="text-align: center;"><b>Carried Forward</b></p> <p>SECTION NO. 2          BUILDING WORKS          Bill No. 9          Plastering  <b>Inkonkoni Primary School</b></p>				R

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Panels:</u></b></p> <p>Granolithic shall be laid in panels not exceeding 14m<sup>2</sup> for monolithic finishes, not exceeding 9,5m<sup>2</sup> for bonded finishes and not exceeding 6m<sup>2</sup> for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width</p> <p>Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints</p> <p><b><u>Laying:</u></b></p> <p>Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels</p> <p>Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels</p> <p>After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated</p> <p><b><u>Curing, seasoning and protection:</u></b></p> <p>Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying</p> <p><b><u>Colour:</u></b></p> <p>Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>SECTION NO. 2          BUILDING WORKS          Bill No. 9          Plastering  <b>Inkonkoni Primary School</b></p>		R	

	<b>Brought Forward</b>			R
	<b><u>TINTED WHITE CEMENT SCREEDS</u></b>			
	Tinted screed shall be composed of one bag White Portland Cement and two wheelbarrows "Malmesbury" sand. Surfaces shall be finished with a steel trowel to leave a smooth finish and coated with two coats "Earthcote S.I. Floorcote" two-pack polyurethane floor sealer applied as per the manufacturer's recommendations			
	NOTE: Tinted screeds are to be strengthened with "Primal Eccos" acrylic polymer (15% of the water volume is to be substituted with the acrylic polymer during the mixing process)			
	Coarse sand is to be used for these screeds			
	All tinting, finishing, strengthening, etc are to be mixed, applied, etc strictly in accordance with the manufacturer's instructions			
	<b><u>CEMENT PLASTER</u></b>			
	Unless otherwise described, cement plaster shall be taken to mean Class 1 cement plaster i.e. 1:4 cement:sand plaster (common cement)			
	-----			
	<b><u>SCREEDS</u></b>			
	<b><u>3:1 Cement plaster screeds wood floated for tiles, on concrete:</u></b>			
2/9/1	30mm Thick on floors and landings	m <sup>2</sup>	30	
2/9/2	Average 30mm thick on floors with upper surface to falls and currents	m <sup>2</sup>	115	
	<b><u>3:1 Cement plaster screeds wood floated for "vinyl" or other flexible type flooring, including applying an approved self-levelling coating applied by an approved specialist, on concrete:</u></b>			
2/9/3	30mm Thick on floors and landings	m <sup>2</sup>	925	
	<b>Carried Forward</b>			R
	SECTION NO. 2 BUILDING WORKS Bill No. 9 Plastering <b>Inkonkoni Primary School</b>			

Brought Forward			R
<b><u>INTERNAL PLASTER</u></b>			
<b><u>Cement plaster wood floated for tiles, on brickwork:</u></b>			
2/9/4	On walls	m <sup>2</sup>	311
2/9/5	On narrow widths	m <sup>2</sup>	31
<b><u>Cement plaster steel trowelled, on brickwork:</u></b>			
2/9/6	On walls	m <sup>2</sup>	26
2/9/7	On narrow widths	m <sup>2</sup>	4
<b>Carried Forward to Summary of Section No.</b>			R
SECTION NO. 2			
BUILDING WORKS			
Bill No. 9			
Plastering			
<b>Inkonkoni Primary School</b>			

Item No	Quantity	Rate	Amount R
<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO. 10</u></b></p> <p><b><u>TILING</u></b></p> <p style="text-align: center;">-----</p> <p><b><u>WORK GROUP ALLOCATION</u></b></p> <p>Unless otherwise stated, all items in this Bill will be allocated to Work Group 144 - Tiling</p> <p><b><u>PREAMBLES</u></b></p> <p>The General Preambles for Trades (2017 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Fixing:</u></b></p> <p>Unless described as "fixed with adhesive to plaster (plaster elsewhere)", descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors, etc shall be deemed to include 1:3 cement plaster bedding</p> <p>Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat</p>			
			R
	<b>Carried Forward</b>		
<p>SECTION NO. 2            BUILDING WORKS            Bill No. 10            Tiling  <b>Inkonkoni Primary School</b></p>			

Brought Forward		R																								
<p>Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Goldstar" or similar approved range of products as recommended by the manufacturer of the tiles</p> <p><b><u>Preparatory work to existing painted plastered surfaces:</u></b></p> <p>Preparation of all existing painted plastered surfaces is to include for removing all loose and flaking material by wire brushing, thoroughly washing down and allowing to dry completely and applying one coat masonry bonding agent</p> <p style="text-align: center;">-----</p> <p><b><u>WALL TILING</u></b></p> <p><b><u>Porcelain tiles (Allow a Prime Cost Amount of R 450/m2 delivered to site) fixed with adhesive to plaster (plaster elsewhere) and flush pointing with and including waterproof grout:</u></b></p> <tr> <td style="width: 10%;">2/10/1</td> <td style="width: 50%;">On walls</td> <td style="width: 40%; text-align: right;">m<sup>2</sup> 269</td> </tr> <tr> <td>2/10/2</td> <td>On narrow widths</td> <td style="text-align: right;">m<sup>2</sup> 40</td> </tr> <tr> <td colspan="3"> <p><b><u>Ceramic tiles (Allow a Prime Cost Amount of R 250/m2 delivered to site) fixed with adhesive to plaster (plaster elsewhere) and flush pointing with and including waterproof grout:</u></b></p> <tr> <td>2/10/3</td> <td>On walls</td> <td style="text-align: right;">m<sup>2</sup> 58</td> </tr> <tr> <td>2/10/4</td> <td>On narrow widths</td> <td style="text-align: right;">m<sup>2</sup> 9</td> </tr> <tr> <td colspan="3"> <p><b><u>FLOOR TILING</u></b></p> </td> </tr> <tr> <td colspan="2" style="text-align: center;">Carried Forward</td> <td style="text-align: center;">R</td> </tr> <tr> <td colspan="3"> <p>SECTION NO. 2            BUILDING WORKS            Bill No. 10            Tiling  <b>Inkonkoni Primary School</b></p> </td> </tr> </td></tr>			2/10/1	On walls	m <sup>2</sup> 269	2/10/2	On narrow widths	m <sup>2</sup> 40	<p><b><u>Ceramic tiles (Allow a Prime Cost Amount of R 250/m2 delivered to site) fixed with adhesive to plaster (plaster elsewhere) and flush pointing with and including waterproof grout:</u></b></p> <tr> <td>2/10/3</td> <td>On walls</td> <td style="text-align: right;">m<sup>2</sup> 58</td> </tr> <tr> <td>2/10/4</td> <td>On narrow widths</td> <td style="text-align: right;">m<sup>2</sup> 9</td> </tr> <tr> <td colspan="3"> <p><b><u>FLOOR TILING</u></b></p> </td> </tr> <tr> <td colspan="2" style="text-align: center;">Carried Forward</td> <td style="text-align: center;">R</td> </tr> <tr> <td colspan="3"> <p>SECTION NO. 2            BUILDING WORKS            Bill No. 10            Tiling  <b>Inkonkoni Primary School</b></p> </td> </tr>			2/10/3	On walls	m <sup>2</sup> 58	2/10/4	On narrow widths	m <sup>2</sup> 9	<p><b><u>FLOOR TILING</u></b></p>			Carried Forward		R	<p>SECTION NO. 2            BUILDING WORKS            Bill No. 10            Tiling  <b>Inkonkoni Primary School</b></p>		
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**DEVELOPMENT BANK OF SOUTH AFRICA**  
**INFRASTRUCTURE AND MAINTENANCE PROGRAMME**  
**INKONKONI PRIMARY SCHOOL**

**Brought Forward**

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**Porcelain floor tiles (Allow a Prime Cost Amount of R 450/m<sup>2</sup> delivered to site) fixed with adhesive to screed (screed elsewhere) and flush pointing with and including waterproof grout:**

2/10/5	On floors	m <sup>2</sup>	145
2/10/6	Skirting 100mm high (of fair cut tiles)	m	93

**SUNDRIES**

**Stainless steel dividing strips:**

2/10/7	50 x 15mm Flat section dividing strips between tiles and vinyl sheeting	m	6
2/10/8	28 x 10 x 2,5mm L-section dividing strips between tiles	m	3

**Stainless steel corner protectors, stair nosings, expansion joint strips, etc:**

2/10/9	12 x 30 x 3mm Angle section stainless steel tile bearer plugged horizontally to brickwork or concrete	m	73
2/10/10	22,5mm "Genesis" type MHS225 stainless steel expansion joint strip with and including neoprene compression strip type MCN100	m	37

**Carried Forward to Summary of Section No.**

R

SECTION NO. 2  
 BUILDING WORKS  
 Bill No. 10  
 Tiling  
**Inkonkoni Primary School**

Item No	Quantity	Rate	Amount R
<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO. 11</u></b></p> <p><b><u>PLUMBING AND DRAINAGE</u></b> <b><u>(PROVISIONAL)</u></b></p> <p style="text-align: center;">-----</p> <p><b><u>WORK GROUP ALLOCATION</u></b></p> <p>The items in this Bill will be allocated to Work Groups as indicated in brackets at the end of headings or descriptions</p> <p><b><u>PREAMBLES</u></b></p> <p>The General Preambles for Trades (2017 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Wire gratings:</u></b></p> <p>Descriptions of gutter outlets, etc shall be deemed to include wire balloon gratings</p> <p><b><u>Stormwater channels:</u></b></p> <p>Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc and disposal of surplus material on site</p>			
<b>Carried Forward</b>			R
<p>SECTION NO. 2            BUILDING WORKS            Bill No. 11            Plumbing and Drainage  <b>Inkonkoni Primary School</b></p>			

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>French drains:</u></b></p> <p>Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, approved geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site</p> <p><b><u>Septic tanks:</u></b></p> <p>Descriptions of proprietary type septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions and disposal of surplus material on site</p> <p><b><u>Stainless steel basins, sinks, wash troughs, urinals, etc:</u></b></p> <p>Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)</p> <p>Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)</p> <p>Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)</p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><b><u>Sealing of edges:</u></b></p> <p>Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved mildew resistant silicone sealant and prices must include therefor</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>SECTION NO. 2          BUILDING WORKS          Bill No. 11          Plumbing and Drainage  <b>Inkonkoni Primary School</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>uPVC pipes and fittings:</u></b></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings</p> <p><b><u>uPVC pressure pipes and fittings:</u></b></p> <p>Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p> <p>Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints</p> <p><b><u>High density polyethylene (HDPE) pipes and fittings:</u></b></p> <p>Pipes shall be type IV and of the class specified with "Plasson" or "Alprene" compression fittings</p> <p><b><u>"Polycop" polypropylene pipes:</u></b></p> <p>Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or where so described "Polylock" compression fittings</p> <p>Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>SECTION NO. 2          BUILDING WORKS          Bill No. 11          Plumbing and Drainage  <b>Inkonkoni Primary School</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Copper pipes:</u></b></p> <p>Pipes shall be hard drawn and half-hard "Maksal" pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground</p> <p>Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition</p> <p><b><u>Reducing fittings:</u></b></p> <p>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 claims for extra bushes, reducers, etc will be entertained</p> <p><b><u>Fixing of pipes:</u></b></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc casting in, building in or suspending not exceeding 1m below suspension level</p> <p><b><u>Paper wrapping to pipes:</u></b></p> <p>Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>SECTION NO. 2          BUILDING WORKS          Bill No. 11          Plumbing and Drainage  <b>Inkonkoni Primary School</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Disinfection of water pipework:</u></b></p> <p>Water pipework is to be disinfected at completion in accordance with SANS 1200L (provision for disinfection elsewhere)</p> <p><b><u>"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.:</u></b></p> <p>Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with suitable overlaps</p> <p>Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including mastic, tape, "Layflat" sheeting, securing of same, etc</p> <p>Prices for wrapping of pipes shall include for all work as described to couplings in the length</p> <p><b><u>Laying, backfilling, bedding, etc of pipes:</u></b></p> <p>Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled</p> <p>Where no manufacturers' instructions exist, pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following:  SANS 1200L : Medium-pressure pipelines  SANS 1200LD : Sewers  SANS 1200LE : Stormwater drainage</p> <p>Pipe trenches, etc shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SANS 1200DB : Earthworks (Pipe trenches)</p> <p>Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SANS 1200LB : Bedding (Pipes)</p> <p>Unless otherwise described, bedding of rigid pipes shall be Class B bedding</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>SECTION NO. 2  BUILDING WORKS  Bill No. 11  Plumbing and Drainage  <b>Inkonkoni Primary School</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>General:</u></b></p> <p>Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)</p> <p>Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends</p> <p>Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 98% Mod AASHTO density and disposal of surplus material on site</p> <p>Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)</p> <p>Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured) and shall have straight or side outlets and "P" or "S" traps as necessary</p> <p>Description of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.</p> <p><b><u>As-built drawings:</u></b></p> <p>Where required, the Contractor shall prepare an updated set of as-built drawings. At completion of the contract the Contractor shall hand these drawings to the Project Manager for reproducing onto the originals for handing over to the Employer (provision for allowance of as-built drawings elsewhere)</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>SECTION NO. 2          BUILDING WORKS          Bill No. 11          Plumbing and Drainage  <b>Inkonkoni Primary School</b></p>		R	

Brought Forward			R
<b><u>Proprietary items:</u></b>			
Where applicable, the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
Note that the manufacturers names specified in this trade are for the purposes of competitive pricing.			
Prices are to be based on the specific products/articles specified.			
On request, returnable samples are to be provided to the Project Manager for consideration			
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<b><u>RAINWATER DISPOSAL (WORK GROUP 148)</u></b>			
<b><u>0.6mm Galvanised sheet steel gutters and rainwater pipes with powder coated finish on outside to match roof sheeting colour:</u></b>			
2/11/1	150 x150mm Box gutters	m	266
2/11/2	100 x 75mm Rainwater pipes	m	67
2/11/3	Extra over gutter for stopped end	No	20
2/11/4	Extra over gutter for angle	No	28
2/11/5	Extra over gutter for outlet for 100 x 75mm pipe	No	20
2/11/6	Extra over rainwater pipe for bend	No	18
2/11/7	Extra over rainwater pipe for shoe	No	18
2/11/8	Extra over rainwater pipe for eaves or plinth offset	No	18
Carried Forward			R
SECTION NO. 2 BUILDING WORKS Bill No. 11 Plumbing and Drainage <b>Inkonkoni Primary School</b>			

**Brought Forward**

R

**SANITARY FITTINGS (WORK GROUP 148)**

**"Franke" or similar approved stainless steel:**

2/11/9	1800 x 535mm "Trendline 722 Code: 1030011" sink with two 343 x 410mm centre bowls, on cupboard (cupboard elsewhere)	No	1
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**"Vaal" or similar approved:**

2/11/10	455 x 290mm "Hibiscus" 7050 wash hand basin bolted to wall	No	1
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2/11/11	510 x 405mm "Daisy" 700803WH wash hand basin bolted to wall	No	15
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2/11/12	"Hibiscus" 772402 close-coupled WC suite comprising pan with double flap heavy duty thermostet seat (Code: 8531Z0) and matching 9 litre cistern	No	20
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2/11/13	"Pearl Paraplegic" 7300SC paraplegic WC suite with lid, fitments, purpose made CP side flush lever and purpose made double flap white epoxy painted wooden seat	No	1
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2/11/14	"Lavatera" 705426 wall urinal with spreader and waste union (flush valve elsewhere)	No	5
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2/11/15	10 Litre Stainless Steel Hydroboil, 340 x 205 x 630mm High with two way tap	No	2
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**WASTE UNIONS, ETC**

**"Cobra Watertech" or similar approved:**

2/11/16	40mm Code 317 CP basin waste union and code 309CP anti-theft plug	No	18
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**TRAPS, ETC**

**uPVC:**

2/11/17	40 x 300mm Double bowl wash trough or sink reseal "P" or "S" trap combination	No	2
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**Carried Forward**

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SECTION NO. 2  
 BUILDING WORKS  
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Brought Forward			R
<b><u>"Cobra Watertech" or similar approved:</u></b>			
2/11/18	75mm Code VA3.113 CP hinged urinal domical grating	No	5
2/11/19	50mm Code 365 CP bottle trap	No	16
<b><u>TAPS, VALVES, ETC</u></b>			
<b><u>"Cobra Watertech" or similar approved:</u></b>			
2/11/20	15mm Code 232/350 FCP angle regulating valve and flexible connection pipe	No	60
2/11/21	15mm Code 503-21CP elbow action pillar tap	No	2
2/11/22	15mm Code 902CP "Focus" basin mixer with waste union, etc and angle flow regulating valves	No	15
2/11/23	15mm Code 166/041CP "Star" sink mixer	No	2
2/11/24	Code FJ6.000CP "Flushmaster Junior" urinal flush valve	No	5
<b><u>ELECTRIC WATER HEATERS</u></b>			
<b><u>Hot Water Geysers, etc.:</u></b>			
2/11/25	Kwikot Kwiksol indirect pump circulation split solar water heating system with 2000 x 1000 x 80mm high flat solar panel collector (code: SOL-PANEL-2), system to include 150 Litre SOL-150-IND round solar water heater complying with SANS 1307:2007, overall size 590mm diameter x 1070mm long with 22mm copper pipe and operating at 400kPa with 400kPa Kwikot Multi pressure control and expansion relief valve (Code: KHN3.214), 100KPa expansion relief valve, electrical circulating pump, auto vent valve, differential thermostat, 20mm draincock and 22mm insulated pipe work including two Kwikot vacuum breakers (Code: KHN4.200CX) installed on hot and cold water supply. Geyser to be installed horizontally in roof space with polyethylene drip tray with union and back nut connected to 40mm PVC overflow pipe taken out at eaves, all in accordance with SANS 10254:2004 and SANS 10106:2006, connected to single phase electrical power supply with isolator 1m away from connection on geyser.	No	2
Carried Forward			R
SECTION NO. 2 BUILDING WORKS Bill No. 11 Plumbing and Drainage Inkonkoni Primary School			

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**AS-BUILT DRAWINGS**

2/11/26

Provision of as-built drawings

Item

**Carried Forward to Summary of Section No.**

SECTION NO. 2  
 BUILDING WORKS  
 Bill No. 11  
 Plumbing and Drainage  
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Item No		Quantity	Rate	Amount R
	<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO. 12</u></b></p> <p><b><u>GLAZING</u></b></p> <p style="text-align: center;">-----</p> <p><b><u>WORK GROUP ALLOCATION</u></b></p> <p>Unless otherwise stated, all items in this Bill will be allocated to Work Group 150 - Glazing</p> <p><b><u>PREAMBLES</u></b></p> <p>The General Preambles for Trades (2017 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Float glass:</u></b></p> <p>The term "float glass" is used for monolithic annealed glass</p> <p><b><u>Laminated glass:</u></b></p> <p>Laminated glass to have polyvinyl butyral (PVB) interlayer(s)</p> <p style="text-align: center;">-----</p>			
	<b>Carried Forward</b>			R
	<p>SECTION NO. 2            BUILDING WORKS            Bill No. 12            Glazing  <b>Inkonkoni Primary School</b></p>			

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Carried Forward

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SECTION NO. 2  
BUILDING WORKS  
Bill No. 12  
Glazing  
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**GLAZING TO STEEL WITH PUTTY**

**6mm Clear safety glazing with steel window putty as per Part-N Glazing SANS 10400:**

2/12/1	Panels exceeding 0,1 and not exceeding 0,5m <sup>2</sup>	m <sup>2</sup>	14
2/12/2	Panels exceeding 0,5m <sup>2</sup> and not exceeding 2,0m <sup>2</sup>	m <sup>2</sup>	222
2/12/3	Panels exceeding 2,0m <sup>2</sup> but not exceeding 4,0m <sup>2</sup>	m <sup>2</sup>	34

**TOPS, SHELVES, DOORS, MIRRORS, ETC**

**4mm Silvered float glass copper backed mirrors with 10mm bevelled and polished edges fixed with double sided adhesive tape:**

2/12/4	Mirror 600 x 1200mm high	No	15
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**Carried Forward to Summary of Section No.**

SECTION NO. 2  
 BUILDING WORKS  
 Bill No. 12  
 Glazing  
**Inkonkoni Primary School**

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Item No	Quantity	Rate	Amount R
<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO. 13</u></b></p> <p><b><u>PAINTWORK</u></b></p> <p style="text-align: center;">-----</p> <p><b><u>WORK GROUP ALLOCATION</u></b></p> <p>Unless otherwise stated, all items in this Bill will be allocated to Work Group 152 - Painting</p> <p><b><u>PREAMBLES</u></b></p> <p>The General Preambles for Trades (2017 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>PREPARATORY WORK TO EXISTING WORK</u></b></p> <p><b><u>Previously painted plastered surfaces:</u></b></p> <p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and minor cracks shall be opened, filled with a suitable filler and finished smooth</p>			
			R
		<b>Carried Forward</b>	
<p>SECTION NO. 2            BUILDING WORKS            Bill No. 13            Paintwork  <b>Inkonkoni Primary School</b></p>			

	<b>Brought Forward</b>			R
	<p><b><u>Previously painted metal surfaces:</u></b></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p><b><u>Previously painted wood surfaces:</u></b></p> <p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</p> <p><b><u>PAINT SPECIFICATIONS</u></b></p> <p>All painting shall be done in accordance with "Plascon", etc specifications, unless otherwise described</p> <p><b><u>COLOURS</u></b></p> <p>When staining timber, the resultant colour or shade must be to the complete satisfaction of the Project Manager before any overcoating or preservative is applied</p> <p>Paintwork is classified in the following different colour groups: "White", "Pastel", "Deep" and "Transparent" in accordance with the "Natural Colour System" (NCS) adopted by the SA National Standards            Unless otherwise described, all paintwork shall be deemed to be classified in the "White" colour group</p> <p style="text-align: center;">-----</p> <p><b><u>PAINTWORK, ETC TO NEW WORK</u></b></p> <p><b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b></p> <p><b><u>One coat alkali resistant plaster primer and two coats PVA acrylic emulsion paint on</u></b></p>			
2/13/1	Walls	m <sup>2</sup>	26	
2/13/2	Extra over for paintwork in the "Pastel" colour group	m <sup>2</sup>	26	
	<b>Carried Forward</b>			R
	SECTION NO. 2 BUILDING WORKS Bill No. 13 Paintwork <b>Inkonkoni Primary School</b>			



Brought Forward

R

**ON EXTERNAL FLOATED PLASTER SURFACES**

**One coat alkali resistant primer and two coats premium quality polyurethane enamel paint, on:**

2/13/5	Walls	m <sup>2</sup>	586
2/13/6	Extra over for paintwork in the "Pastel" colour group	m <sup>2</sup>	586
2/13/7	Ditto, but for paintwork in the "Deep" colour group	m <sup>2</sup>	586
2/13/8	Ditto, but for paintwork in the "Transparent" colour group	m <sup>2</sup>	586

**ON INTERNAL GYPSUM PLASTER SURFACES**

**One coat primer and two coats interior quality acrylic PVA paint**

2/13/9	Ceilings and beams	m <sup>2</sup>	1 220
2/13/10	Extra over for paintwork in the "Pastel" colour group	m <sup>2</sup>	1 220
2/13/11	Ditto, but for paintwork in the "Deep" colour group	m <sup>2</sup>	1 220
2/13/12	Ditto, but for paintwork in the "Transparent" colour group	m <sup>2</sup>	1 220

**ON FIBRE-CEMENT BOARD SURFACES**

**One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use, on:**

2/13/13	Fascias and barge boards, including priming metal jointing strips [ LI ]	m <sup>2</sup>	113
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**METAL SURFACES WITH**

**One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel:**

2/13/14	Door frames	m <sup>2</sup>	41
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 BUILDING WORKS  
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<b>Brought Forward</b>				R
2/13/15	Window with burglars	m <sup>2</sup>	104	
2/13/16	Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area) [ LI ]	m <sup>2</sup>	38	
2/13/17	Extra over for paintwork in the "Pastel" colour group	m <sup>2</sup>	175	
2/13/18	Ditto, but for paintwork in the "Deep" colour group	m <sup>2</sup>	175	
2/13/19	Ditto, but for paintwork in the "Transparent" colour group	m <sup>2</sup>	175	
<b><u>ON WOOD SURFACES</u></b>				
<b><u>One coat primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on:</u></b>				
2/13/20	Doors	m <sup>2</sup>	184	
2/13/21	Skirtings, rails, etc not exceeding 300mm girth	m	628	
2/13/22	Extra over for paintwork in the "Pastel" colour group	m <sup>2</sup>	353	
2/13/23	Ditto, but for paintwork in the "Deep" colour group	m <sup>2</sup>	353	
2/13/24	Ditto, but for paintwork in the "Transparent" colour group	m <sup>2</sup>	353	
<b><u>PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK</u></b>				
<b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b>				
<b><u>One coat superior quality acrylic emulsion paint for interior and exterior use, on work in sound condition:</u></b>				
2/13/25	Walls	m <sup>2</sup>	2 536	
2/13/26	Extra over for paintwork in the "Pastel" colour group	m <sup>2</sup>	2 536	
2/13/27	Ditto, but for paintwork in the "Deep" colour group	m <sup>2</sup>	2 536	
2/13/28	Ditto, but for paintwork in the "Transparent" colour group	m <sup>2</sup>	2 536	
<b>Carried Forward</b>				R
SECTION NO. 2 BUILDING WORKS Bill No. 13 Paintwork <b>Inkonkoni Primary School</b>				

Brought Forward

R

**ON METAL SURFACES**

**One coat alkyd based universal undercoat and one coat superior quality universal enamel paint, on work in sound condition:**

2/13/29	Windows with burglar bars	m <sup>2</sup>	268
2/13/30	Extra over for paintwork in the "Pastel" colour group	m <sup>2</sup>	268
2/13/31	Ditto, but for paintwork in the "Deep" colour group	m <sup>2</sup>	268
2/13/32	Ditto, but for paintwork in the "Transparent" colour group	m <sup>2</sup>	268

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SECTION NO. 2

BUILDING WORKS

**SECTION SUMMARY - BUILDING WORKS**

Bill No		Page No	Amount R
2/1	Alterations	31	
2/2	Masonry	35	
2/3	Roof Coverings	37	
2/4	Carpentry and Joinery	43	
2/5	Ceilings, Partitions and Access Flooring	48	
2/6	Floor Coverings	50	
2/7	Ironmongery	54	
2/8	Metalwork	58	
2/9	Plastering	63	
2/10	Tiling	66	
2/11	Plumbing and Drainage	76	
2/12	Glazing	79	
2/13	Paintwork	85	
	<b>Carried to Final Summary</b>		R
	SECTION NO. 2 BUILDING WORKS <b>Inkonkoni Primary School</b>		

Item No	Quantity	Rate	Amount R
<b><u>SECTION 3</u></b>			
<b><u>BILL NO. 1</u></b>			
<b><u>EXTERNAL WORK (PROVISIONAL)</u></b>			
<b><u>(ALL TRADES)</u></b>			
<b><u>PREAMBLES</u></b>			
<p>The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said Model Preambles</p>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Nature of ground:</u></b>			
<p>The nature of the ground is assumed to be gravel, therefore "earth", but possibly interspersed with "soft rock" or "hard rock"</p>			
<b><u>Subterranean water:</u></b>			
<p>No subterranean water is expected</p>			
<b><u>Excavation for working space in rock:</u></b>			
<p>Notwithstanding clause 11 page 7 of the Standard System of Measuring Building Work, excavation for working space in rock will be measured in cubic metres to the extent executed and given as "extra over" bulk excavation or trench and hole excavation as the case may be</p>			
<b>Carried Forward</b>			R
<p>SECTION NO. 3            EXTERNAL WORKS            Bill No. 1            External Works (Provisional)  <b>Inkonkoni Primary School</b></p>			

	<b>Brought Forward</b>			R
<b><u>Carting away of excavated material:</u></b>				
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				
<b><u>Filling:</u></b>				
Notwithstanding the reference to prescribed multiple handling in Clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material				
<b><u>Testing:</u></b>				
<i>Prices for filling are to include for all necessary density tests in accordance with SANS 1200D</i>				
<b><u>Maintenance period:</u></b>				
The maintenance period to civil works such as roads, parking and related earthworks shall be twelve calendar months				
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<b><u>SPORTS FACILITIES, ETC.</u></b>				
<b><u>DEMOLITIONS, ETC (WORK GROUP 104)</u></b>				
<b><u>Breaking up and removing:</u></b>				
3/1/1	150mm Thick mesh reinforced concrete surface beds, paving, etc.	m <sup>2</sup>	492	
<b><u>Taking down and removing:</u></b>				
3/1/2	2100mm High precast concrete panel fence	m	120	
<b><u>EARTHWORKS</u></b>				
<b><u>SITE CLEARANCE, ETC</u></b>				
<b>Carried Forward</b>				R
SECTION NO. 3 EXTERNAL WORKS Bill No. 1 External Works (Provisional) <b>Inkonkoni Primary School</b>				

**DEVELOPMENT BANK OF SOUTH AFRICA**  
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<b>Brought Forward</b>			R
<b><u>Site clearance:</u></b>			
3/1/3	Stripping average 150mm thick layer of top soil and depositing material in prescribed stock piles on site	m <sup>2</sup>	6 800
3/1/4	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m <sup>2</sup>	6 800
<b><u>REMOVAL OF TREES, ETC</u></b>			
<b><u>Taking out and removing, grubbing up roots and filling in holes:</u></b>			
3/1/5	Tree stump exceeding 200mm and not exceeding 500mm girth	No	15
<b><u>BULK EXCAVATION, FILLING, ETC</u></b>			
<b><u>EXCAVATIONS, ETC</u></b>			
<b><u>EARTHWORKS (WORK GROUP 104)</u></b>			
<b><u>Excavation in earth not exceeding 2m deep:</u></b>			
3/1/6	Over site between buildings, retaining walls, etc to reduce levels and dispose in prescribed stock piles on site	m <sup>3</sup>	148
<b><u>Extra over all excavations for carting away:</u></b>			
3/1/7	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m <sup>3</sup>	148
<b><u>Compaction of surfaces:</u></b>			
3/1/8	Compaction of ground surface under pavings, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density	m <sup>2</sup>	492
<b>Carried Forward</b>			R
SECTION NO. 3 EXTERNAL WORKS Bill No. 1 External Works (Provisional) <b>Inkonkoni Primary School</b>			

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**INFRASTRUCTURE AND MAINTENANCE PROGRAMME**  
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**Earth filling from commercial sources supplied by the Contractor under parking areas, roadways, etc:**

3/1/9	Sub-base course of G5 material compacted to 95% Mod AASHTO density	m <sup>3</sup>	74
3/1/10	Sub-base course of G7 material compacted to 93% Mod AASHTO density	m <sup>3</sup>	74

**Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrasiem 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m2:**

3/1/11	Under paving, etc	m <sup>2</sup>	492
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**Extra over bulk excavations in earth for breaking up and removing:**

3/1/12	Reinforced concrete	m <sup>3</sup>	74
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**Risk of collapse of excavations:**

3/1/13	Sides of trench and hole excavations not exceeding 1,5m deep	m <sup>2</sup>	29
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**Keeping excavations free of water:**

3/1/14	Keeping excavations free of water other than subterranean water		Item
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**Prescribed density tests on filling:**

3/1/15	"Modified AASHTO Density" test	No	5
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**DAMPPROOFING OF WALLS AND FLOORS**

**One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape:**

3/1/16	Under surface beds	m <sup>2</sup>	492
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Carried Forward

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SECTION NO. 3  
 EXTERNAL WORKS  
 Bill No. 1  
 External Works (Provisional)  
**Inkonkoni Primary School**

Brought Forward			R
<b><u>Fabric reinforcement:</u></b>			
3/1/17	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m <sup>2</sup>	492
<b><u>30MPa/19mm Reinforced concrete:</u></b>			
3/1/18	Surface beds on waterproofing	m <sup>3</sup>	49
<b><u>Expansion joints with "Sondor Jointex" polyethylene expansion joint filler with tear-off strips, in pavings:</u></b>			
3/1/19	10mm Joints not exceeding 300mm high	m	192
<b><u>TEST CUBES (WORK GROUP 110)</u></b>			
3/1/20	Making and testing sets of three 150 x 150 x 150mm concrete strength test cubes (Provisional)	Sets	2
<b><u>Finishing top surfaces of concrete smooth with a power float:</u></b>			
3/1/21	Paving to parking areas, roads, etc to falls	m <sup>2</sup>	492
<b><u>"Sportec" or similar approved sports facility finish</u></b>			
3/1/22	On floors	m <sup>2</sup>	492
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<b><u>ROADWORK, PARKING AREAS AND PAVING</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Testing of material and filling:</u></b>			
Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required, in accordance with the SABS 1200 series			
Carried Forward			R
SECTION NO. 3 EXTERNAL WORKS Bill No. 1 External Works (Provisional) <b>Inkonkoni Primary School</b>			

Brought Forward		R
<b><u>Precast concrete block road surfacing:</u></b>		
Paving shall be laid in accordance with SABS 1200 MJ, SANS 1058 and the Concrete Masonry Association's specifications		
Clean sand shall be swept into joints between roadstones at completion		
<b><u>EARTHWORKS</u></b>		
<b><u>SITE CLEARANCE, ETC</u></b>		
<b><u>Site clearance:</u></b>		
3/1/23	Stripping average 150mm thick layer of top soil and depositing material in prescribed stock piles on site	m <sup>2</sup> 800
<b><u>BULK EXCAVATION, FILLING, ETC</u></b>		
<b><u>EXCAVATIONS, ETC</u></b>		
<b><u>EARTHWORKS (WORK GROUP 104)</u></b>		
<b><u>Excavation in earth not exceeding 2m deep:</u></b>		
3/1/24	Over site between buildings, retaining walls, etc to reduce levels and dispose in prescribed stock piles on site	m <sup>3</sup> 264
<b><u>Extra over all excavations for carting away:</u></b>		
3/1/25	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m <sup>3</sup> 264
<b><u>Extra over bulk excavations in earth for excavation in:</u></b>		
3/1/26	Soft rock	m <sup>3</sup> 40
3/1/27	Hard rock	m <sup>3</sup> 40
Carried Forward		R
SECTION NO. 3 EXTERNAL WORKS Bill No. 1 External Works (Provisional) <b>Inkonkoni Primary School</b>		

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<b><u>Compaction of surfaces:</u></b>			
3/1/28	Compaction of ground surface under pavings, etc including scarifying for a depth of 300mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density	m <sup>2</sup>	800
<b><u>Earth filling supplied by the Contractor under parking areas, roadways, etc:</u></b>			
3/1/29	Sub-base course of G5 material compacted to 95% Mod AASHTO density	m <sup>3</sup>	120
3/1/30	Sub-base course of G7 material compacted to 93% Mod AASHTO density	m <sup>3</sup>	120
<b><u>Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrasion 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m2:</u></b>			
3/1/31	Under paving, etc.	m <sup>2</sup>	800
<b><u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing:</u></b>			
3/1/32	150 x 280mm High kerbs (SANS 927 fig 7) with 100 x 150 x 380mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc	m	146
3/1/33	Ditto, but circular-on-plan	m	18
3/1/34	150 x 280mm High kerbs (SANS 927 fig 12) with 100 x 200mm deep 10MPa unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc	m	6
<b><u>Bituminous premix road surfacing:</u></b>			
3/1/35	30mm Thick to parking areas, roadways, etc. including bitumen spray to base course	m <sup>2</sup>	800
Carried Forward			R
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**Brought Forward**

R

**Road signs:**

3/1/36	Standard "STOP" sign with 50mm diameter galvanised mild steel post bedded in and including unreinforced concrete base, including any necessary excavation, paint finish, etc	No	1
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**Prepare and apply one coat white reflective road marking paint on bituminous road surfacing, precast concrete paving blocks, etc:**

3/1/37	100mm Wide line  -----	m	234
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**FENCING**

**Precast concrete fencing**

3/1/38	Precast concrete palisade fencing 2400mm high above ground level with exposed faces of all components finished smooth and with one side of infill panels with "big brick" design comprising 150 x 150mm posts 2,5m long having tapered recesses on two sides and reinforced with 12mm diameter mild steel continuous bars, founded in and including 450 x 450 x 450mm unreinforced concrete bases as 1,59m centres and with precast concrete caps cemented on top of each post and with 38 x 1525 x 305mm infill panels reinforced with type 395 high tensile steel fabric reinforcement including grouting panels in cement mortar.	m	168
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**"Betafence" or similar approved galvanised steel security fence with posts at 2400mm centres, erected complete including concrete bases, stays, rails, verticals, galvanised steel bolts, straining eye bolts, single overhang with 3 strands of barbed wire, etc and finished with "Zincalu Super" coating and including site clearance, preparation of ground, etc:**

3/1/39	"Nylofor" 1500 x 2400mm high swing gate including locks, poles, concrete works, etc. installed complete	No	1
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**Carried to Final Summary**

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SECTION NO. 3  
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Item No		Quantity	Rate	Amount R
	<p><b><u>SECTION 4</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>ELECTRICAL INSTALLATION</u></b></p> <p style="text-align: center;">-----</p> <p><b><u>GENERAL NOTES</u></b></p> <p>1. This Bill of Quantities forms part of, and must be read in conjunction with the specification</p> <p>2. The quantities given in the Bill for cables, cable markers, earth wire laid with cables, overhead conductors, overhead earth wires and excavations cannot be regarded as exact and are subject to measurement on site after completion of the service and adjustments will be made according to the unit rates given in the bill.</p> <p>In the event of discrepancies between the drawings, specifications and Bill of Quantities, the Department shall decide whether the work as executed shall be remeasured on site or whether re-measurement shall be effected from the working drawings only.</p> <p><b>NOTE:</b></p> <p><b><u>Checking of Cable Lengths</u></b></p>			
	<b>Carried Forward</b>			R
	<p>SECTION NO. 4            ELECTRICAL INSTALLATIONS            Bill No. 1            Electrical Installations  <b>Inkonkoni Primary School</b></p>			

<p style="text-align: center;"><b>Brought Forward</b></p> <p>Notwithstanding the fact that the lengths of cables as given in the Bill of Quantities have been measured from scaled drawings, the contractor shall check such lengths on site before ordering the cable as he / she will not be paid for excess cable after the completion of the service. Any allowance for off-cuts shall be made in the unit rates. The final measurements shall be based on the nett route length of the cable and overhead lines concerned.</p> <p><b><u>Checking of quantities for other materials</u></b></p> <p>Notwithstanding the fact that the quantities for light fittings, switches, socket outlets and isolators as given in the Bill of Quantities have been measured from drawings, the contractor shall check such lengths on site before ordering the cable as he / she will not be paid for excess quantities after the completion of the service. Any ambiguous or dubious wording or quantities must be cleared with the responsible Engineer before work is started. Wrong interpretation of the specification and / or drawings and Bill of Quantities, resulting in alterations and/or additional costs, is solely the responsible of the contractor.</p> <p>3. Where alternative prices for the switchgear of different manufacture are quoted the lowest alternative price for switchgear as per the specification must be quoted against the relevant item in the Bill of Quantities. The remaining alternative prices must be furnished separately.</p> <p>4. The unit prices quoted in the Bill of Quantities must include for such small Installation materials as are required for the complete Installation in accordance with the specification.</p> <p>5. All equipment, components and material shall be new, unused and best quality and shall comply with the relevant current specifications of the SABS, SANS and as stated in this document, wherever possible, be of South African manufacture.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>SECTION NO. 4  ELECTRICAL INSTALLATIONS  Bill No. 1  Electrical Installations  <b>Inkonkoni Primary School</b></p>		R	

<b>Brought Forward</b>		R
<p>6. No alteration, erasure or addition is to be made in the text of the Bill of Quantities. Should any alteration, erasure or addition be made, it will not be recognised but the original wording of the Bill of Quantities will be adhered to.</p> <p>7. The Engineer will check the completed Bill of Quantities and reserves the right to adjust any individual price and to rectify any discrepancy whilst the total tender price as quoted remains unaltered.</p> <p>8. Electrical materials associated with the building, for example conduit accessories and wiring accessories, will not be re-measurable and the tenderer must therefore allow for the supply of all necessary accessories of materials for the successful execution and completion of the Installation.</p> <p>9. The unit rate for each item in the Bill of Quantities shall include for all materials, labour, profit, transport, etc., everything necessary for the execution and complete Installation of the work in accordance with the description of the works.</p> <p>10. The Bills of Quantities shall not be used for ordering purposes. The contractor shall check the lengths of cables, overhead conductors, light fitting quantities, switches, socket outlets and isolators on site before ordering any of these materials. Any allowance for off-cuts of cables shall be made in the unit rates.</p> <p>11. The rates shall exclude Value-Added Tax (VAT) and the total carried over to the final summary.</p> <p>12. The contractor is required to label all distribution boards, supply and Install all danger warning signs, label all switches, socket outlets and isolators etc. and all costs shall be deemed to have been provided for and included in the unit rates and sum amounts tendered for the items scheduled in the Bill of Quantities and separate additional payment will not be made.</p>		
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	<b>Brought Forward</b>				R
	<p><b>13. Black ink shall be used for pricing the document, any other prices marked in other colours or pencil shall not be considered for the total price of the bill.</b></p> <p style="text-align: center;">-----</p> <p><b><u>CABLE TRENCHES</u></b></p> <p><b><u>Disconnection/Removal of redundant electrical equipment</u></b></p> <p>4/1/1 Isolate, decommissioning, disconnect and removing of existing electrical installations including cable and distribution board. Contractor to provide temporarily power</p> <p><b><u>LV SWITCHGEAR</u></b></p> <p><b><u>Manufacture, deliver to site, install, commission, test and tuning of distribution board as per specification and single line diagram. Rates to include for hot deep galvanised steelwork and powder coated busbars and drilling, busbar connections, internal wiring, etc. or as per drawing. Refer to attached single line diagram. Colour shall be as per single line diagram/drawings.</u></b></p> <p><u>(All shall be recessed unless specified otherwise, manufactured in strict adherence to single line diagrams)</u></p> <p>DB - A (Main DB)</p> <p>4/1/2 Supply and install No 1</p> <p>DB - B (CL4-Grd 1)</p> <p>4/1/3 Supply and install No 1</p> <p>DB - C (CL4 - Grd 4)</p> <p>4/1/4 Supply and install No 1</p>		Item	20 000.00	
	<b>Carried Forward</b>				R
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	DB- D (Kitchen + Guardhose)		
4/1/5	Supply and install	No	1
	DB - E (Senior Classroom Grnd Flr)		
4/1/6	Supply and install	No	1
	DB - F (Senior Classroom Frst Flr)		
4/1/7	Supply and install	No	1
<b><u>CABLE TERMINATIONS(BCEW)</u></b>			
<b><u>Termination of cables shall include supply, installation and testing of the IP65 glands with corrosion guard, making-off the cable, lugs, and fitting the gland to the board gland plate, switchgear or equipment and final connection of cable tails into board or terminals. Include for Reducing Glands and shrouds where applicable. NB: IP65 Glands are to be used.</u></b>			
	10mm <sup>2</sup> 2c 600/1000V PVC/SWA/PVC ECC Cu Cable		
4/1/8	Supply and install	No	10
	16mm <sup>2</sup> 2c 600/1000V PVC/SWA/PVC ECC Cu Cable		
4/1/9	Supply and install	No	2
<b><u>CABLE AND CONDUCTORS</u></b>			
<b><u>Supply, deliver to site and store cables and conductors as specified. Install, rack, strap and testing of cables as per specification including clamps, ties and cable numbering system</u></b>			
	2,5mm conductors (for all mixed colours - live, neutral and earth)		
4/1/10	Supply and install	m	9 800
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	4,0mm conductors (for all mixed colours - live, neutral and earth)		
4/1/11	Supply and install	m	7 500
	10mm <sup>2</sup> 2c 600/1000V PVC/SWA/PVC ECC Cu Cable		
4/1/12	Supply	m	360
	16mm <sup>2</sup> 2c 600/1000V PVC/SWA/PVC ECC Cu Cable		
4/1/13	Supply	m	180

**SUPPLY AND INSTALL PVC CONDUITS**

**Supply and install the following PVC conduits in concrete slab, chased through brick walls and surface mounted to pvc boxes. Conduits are to include ends and all necessary conduits accessories. Rates to include closing of walls and make good. All material to be SABS approved and be suitable for conductors installation.**

	25mm PVC		
4/1/14	Supply	m	2 100
	32mm PVC		
4/1/15	Supply and install	m	400
	32mm Bosal Conduit		
4/1/16	Supply and install	m	150

**2 Tier PVC Power Skirting**

**Supply, deliver to site, store & install 2 tier PVC power skirting inclusive of all items required to install in accordance with manufacturers specification. Rate must be inclusive of all items such as end caps, etc. required to install in accordance with manufacturers specification.**

2 Tier PVC power skirting

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<b>Brought Forward</b>				R
4/1/17	Supply	m	230	
	16A, 3pin, 230V Switched Socket Outlets, white coloured cover plate on power skirting			
4/1/18	Supply	No	30	
	16A, 3 pin, 1 x 2pin, 230V Switched Socket Outlets, white coloured cover plate on power skirting			
4/1/19	Supply	m	10	
	16A, 3pin, 230V Dedicated Switched Socket Outlets (earth chamfered), red toggle with red coloured cover plate on power skirting			
4/1/20	Supply	No	30	
<b><u>CONTROL DEVICES AND ACCESSORIES</u></b>				
<b><u>Supply, deliver and installation of the following accessories. Rate must allow for the termination and connecting of the PVC conductor to the accessory, fixing to the wall mounted steel conduit box and the fitting of the cover plate. All accessories to be PVC white cover with white toggle:-</u></b>				
	15Amp, 230V AC, 1 lever, 1-way recessed, white coloured, light circuit switch complete with cover and all accessories, must be chased in the wall			
4/1/21	Supply	No	35	
	Recessed mounted 15Amp, 230VAC, 1 - lever, 2 - way, white coloured, light circuit switch complete with cover and all accessories, must be chased in the wall			
4/1/22	Supply and install	No	4	
	Surface mounted 16A, 230VAC, 3pin, Double Switched Socket Outlets, white coloured cover plate, chased in the wall			
4/1/23	Supply and install	No	9	
<b>Carried Forward</b>				R
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	16A, 3pin, 2 pin, 230V Switched Socket Outlets, white coloured cover plate, must be chased in the wall		
4/1/24	Supply	No	40
	16A, 3pin, 230V Switched Socket Outlets, white coloured cover plate, must be chased in the wall		
4/1/25	Supply and install	No	2
	20A, 1-pole, 230VAC surface mounted isolator, rated IP65 complete with all necessary accessories		
4/1/26	Supply and install	No	2
	Weather-proof IP65 light switch, 230VAC surface mounted, complete with all necessary accessories.		
4/1/27	Supply and install	No	4

**CONDUIT BOXES/DRAW BOXES**

**Supply, deliver and install the following conduit surface mounted boxes. Rate must allow for the termination of conduit ends.**

	100x100x50mm		
4/1/28	Supply and install	No	49
	100x50x50mm		
4/1/29	Supply and install	No	39

**LUMINAIRES AND SMALL POWER**

**Supply, deliver, accept and store the following LED luminaires, complete with lamps, control gear, cable 1.5mm 3-core 1200mm long which are to be as specified.**

Type A9- surface mounted fitting with 2x 28W/ ±2000 lumen per LED lamp. Fitting rated IP65 surface mounted 1200mm luminaires IP65 complete with acrylic diffuser

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4/1/30	Supply	No	96	
	Type B1 - IP65 Rated high-pressure die cast aluminium base and trim ring 20W/ +/-2600lm LED - 4000k bulkhead luminaire with an opal high-impact acrylic diffuser, with 50000 hours lifespan.			
4/1/31	Supply and install	No	42	
	Type C1 - 80W / +/-10 000lm LED (4000k) Floodlight, rated IP65 with powder coating as per specification			
4/1/32	Supply and install	No	15	
	Photo electric cell as per specification			
4/1/33	Supply and install	No	8	
	<b>SUNDRIES</b>			
	Supply and install all power, lighting and earthing signs, labels and equipment tags as specified and in accordance with all Statutory requirements.			
4/1/34	Supply		Item	2 000,00
	Earthing and bonding of all electrically connected Equipment and cable racking and supports as per specification and regulations for all building structures			
4/1/35	Supply and install		Item	2 000,00
	Labelling of light switches, sockets and isolators outlets, cables engraved or pop riveted to cover plate or similar as per drawing			
4/1/36	Supply and install		Item	2 000,00
	Supply of hard bound spiral folders containing commissioning COC certificates, test results & operating & maintenance manuals for the LV equipment, cabling, light fittings, etc.			
4/1/37	Supply and install		Item	2 000,00
	<b>Carried Forward</b>			
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	SECTION NO. 4 ELECTRICAL INSTALLATIONS Bill No. 1 Electrical Installations <b>Inkonkoni Primary School</b>			

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**CABLE SLEEVES**

**Supply, deliver and install the following uPVC flexible black ring sleeves, unless stated. All material to be SABS approved as suitable for cable installation. Must have 1,5mm draw wire.**

110mm uPVC flexible sleeves

4/1/38	Supply	m	200	
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**EXCAVATIONS**

**For all low voltage cables from existing substation to DB room in all buildings. Trenching shall be calculated using the formula below:**

**(700mm deep \* 300mm wide \* length)**

4/1/39	Excavate in concrete/tar and hard soil, backfilling and compaction to 93% MOD AASHTO and re-instate tar/concrete	m <sup>3</sup>	53	
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**EARTHING AND LIGHNING PROTECTION**

**Supply, install, test and commissioning of the Lightning protection of the entire building on all corners of the building as aluminium, complete with all necessary required material, accessories for a complete installation. Contractor to use copper earth spike, copper conductors as per SANS, and have testing points at least 4 points around each block, the earthing conductors shall be terminated and fixed on the roof sheeting. Refer to drawing for details and specification. The installation must comply with SANS 10313. Rates to include all necessary required accessories for a complete installation and Lightning protection result / certificate. Rate to include testing of lightning protection and issue of certificate per building.**

4/1/40	Administration Block		Item	25 000.00
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4/1/41	Classroom 1 (CL4 - Grd 1)		Item	25 000.00
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4/1/42	Classroom 2 (CL4 - Grd 4)	Item	25 000.00
4/1/43	Classroom 3 (Senior Block)	Item	25 000.00
4/1/44	Kitchen and Guardhose	Item	15 000.00
4/1/45	Ablutions	Item	15 000.00

**TEST AND COMMISSIONING**

**Test and commission the complete electrical installation including completion of quality check sheets, Compliance Certificates & test results and submitting them to the Employer's Representative.**

4/1/46	Test and commission the complete electrical installation including Certificates of Compliance & test results to the Engineer.	Item	25 000.00
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	<b><u>SECTION 5</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>FIRE EQUIPMENT</u></b>			
	-----			
	<b><u>SANS 10400-T: 2020 &amp; SANS 10252</u></b>			
	<b><u>CLASS 16 HDPE PIPING AND FITTINGS</u></b>			
	<b><u>Supply, deliver and install all fire appliances complete with all auxiliary fittings</u></b>			
5/1/1	110 mm Pipe laid and including trenches not exceeding 800m deep.	m	230	
5/1/2	75mm Pipe laid and including trenches not exceeding 800m deep.	m	20	
5/1/3	32mm Pipe laid and including trenches not exceeding 800m deep	m	5	
5/1/4	25mm Pipe laid and including trenches not exceeding 800m deep.	m	45	
5/1/5	110mm - 100mm Compression Type Adaptor Flange	No	1	
5/1/6	75mm - 80mm Compression Type Adaptor Flange	No	3	
5/1/7	32mm - 32mm Compression Type Adaptor Flange	No	1	
5/1/8	25mm - 25mm Compression Type Adaptor Flange	m	3	
5/1/9	110mm Equal Compression Type Tee	m	9	
5/1/10	110mm - 110mm Coupler	m	5	
5/1/11	110mm - 75mm Reducer	m	3	
5/1/12	110mm - 32mm Reducer	No	1	
	<b>Carried Forward</b>			R
	SECTION NO. 5 MECHANICAL INSTALLATIONS Bill No. 1 Fire Protection <b>Inkonkoni Primary School</b>			

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5/1/13	110mm - 25mm Reducer	No	3
<b><u>BLACK MILD STEEL PIPING AND FITTINGS</u></b>			
5/1/14	25mm Pipes	No	30
5/1/15	32mm Pipes	No	25
5/1/16	32, 90 Degree threaded elbow	No	2
5/1/17	25, 90 Degree threaded elbow	No	3
5/1/18	32 Threaded equal tee	No	1
5/1/19	32 - 25 Threaded reducer	No	1
<b><u>Supply, deliver and install all Fire appliances and piping complete with all auxiliary fittings</u></b>			
5/1/20	"Everyway" hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket, bolted to wall.	No	5
5/1/21	Twin Booster Connection	No	1
5/1/22	4.5kg Dry Chemical fire extinguisher mounted on a wooden block.	No	23
5/1/23	Fire hydrant	No	3
5/1/24	38mm Layflat Hose with adjustable nozzle housed inside a cabinet	No	3
<b><u>SIGNAGE</u></b>			
<b><u>FIRE PROTECTION EQUIPMENT, FIRE WALLS &amp; EMERGENCY EVACUATION LAYOUT</u></b>			
5/1/25	LED directional signage (With back-up power)		SUM
5/1/26	Photoluminated directional signage		SUM
5/1/27	Photoluminated fire signage		SUM
<b>Carried Forward to Summary of Section No.</b>			R
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	<b><u>SECTION 5</u></b>			
	<b><u>BILL NO. 2</u></b>			
	<b><u>HVAC INSTALLATIONS</u></b>			
	-----			
	<b><u>ADMIN BLOCK</u></b>			
	<b><u>Supply, install and Commission all HVAC Equipment complete with all auxiliary fittings.</u></b>			
5/2/1	Ceiling fans	No	8	
5/2/2	Wall mounted fan speed controller with three set points	No	6	
5/2/3	400 x 400mm High door grille	No	8	
	<b><u>GRADE 1 &amp; 2 CLASSROOM BLOCK</u></b>			
	<b><u>Supply, install and Commission all HVAC Equipment complete with all auxiliary fittings.</u></b>			
5/2/4	Ceiling fans	No	8	
5/2/5	Wall mounted fan speed controller with three set points	No	4	
	<b><u>GRADE 4 CLASSROOM BLOCK</u></b>			
	<b><u>Supply, install and Commission all HVAC Equipment complete with all auxiliary fittings.</u></b>			
5/2/6	Ceiling fans	No	8	
5/2/7	Wall mounted fan speed controller with three set points	No	4	
	<b><u>SENIOR CLASSROOM BLOCK</u></b>			
	<b>Carried Forward</b>			R
	SECTION NO. 5 MECHANICAL INSTALLATIONS Bill No. 2 HVAC Installations <b>Inkonkoni Primary School</b>			

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<b><u>Supply, install and Commission all HVAC Equipment complete with all auxiliary fittings.</u></b>			
5/2/8	Inverter ceiling suspended unit - 15.6 kW Cooling	No	1
5/2/9	Inverter unit condensing unit - 15.6 kW cooling	No	1
5/2/10	Premium wired remote controller	No	1
5/2/11	Gas & Liquid Refrigerant copper piping with insulation and galvanized cable wire baskets with consumables, nitrogen, welding with consumables, refrigerant gas and general consumables.	m	3
5/2/12	Ø22mm Diameter insulated PVC condensate drain piping with all associated fittings	m	10
5/2/13	Ceiling fans	No	10
5/2/14	Wall mounted fan speed controller with three set points	No	5
<b><u>KITCHEN</u></b>			
5/2/15	Supply, install, and commission 2300 x 800 x 600mm stainless steel extraction canopy with fan, 3 set point controller, attenuator, roof exhaust vent cap, and all relevant fittings	No	1
5/2/16	400 x 400mm Door grille	No	1
<b>Carried Forward to Summary of Section No.</b>			R
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	<b><u>SECTION 5</u></b>			
	<b><u>BILL NO. 3</u></b>			
	<b><u>WET SERVICES</u></b>			
	<b><u>SANS 10252-1</u></b>			
	<b><u>COLD WATER INSTALLATION</u></b>			
	<b><u>Class 10 HDPE piping &amp; fittings laid and buried in trenches not exceeding 800m deep.</u></b>			
5/3/1	25mm dia. HDPE CI 10 underground water pipe	m	40	
5/3/2	25mm dia. 90 degree elbow	No	2	
5/3/3	32 - 25mm dia. Reducing T-Joint	No	1	
5/3/4	25mm dia. Coupler	No	2	
5/3/5	25mm dia. - 22mm dia. Adaptor	No	1	
	<u>Brass compression fittings and valves</u>			
5/3/6	22mm dia. Isolation valve	No	1	
5/3/7	25mm dia. Strainer	No	1	
	<b><u>SANS 10252-2</u></b>			
	<u>Class 34 uPVC Pipe</u>			
5/3/8	50mm dia. Pipe	m	50	
5/3/9	1100mm dia. Pipe	m	40	
	<b>Carried Forward</b>			R
	SECTION NO. 5 MECHANICAL INSTALLATIONS Bill No. 3 Wet Services <b>Inkonkoni Primary School</b>			

**DEVELOPMENT BANK OF SOUTH AFRICA**  
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Brought Forward				R
<u>Class 34 uPVC Fittings</u>				
5/3/10	50mm dia. 90 Degree bend	No	10	
5/3/11	110mm dia. 90 Degree bend	No	10	
5/3/12	50mm dia. 45 Degree bend	No	10	
5/3/13	110mm dia. 45 Degree bend	No	10	
5/3/14	50mm dia. Equal access junction	No	10	
5/3/15	110mm dia. 45 Access bend	No	10	
<u>Pipe Hangers - Anchor, Treaded Rod and Hilti Hanger</u>				
5/3/16	50mm dia.	No	5	
5/3/17	110mm dia. Degree access bend	No	5	
<b><u>ADMINISTRATION BLOCK</u></b>				
<b><u>SANS 10252-1</u></b>				
<u>PEX Piping for above ground water reticulation system</u>				
5/3/18	15mm dia. Pipe	m	5	
5/3/19	22mm dia. Pipe	m	5	
<u>PEX piping fittings</u>				
5/3/20	15mm dia. Elbow	No	5	
5/3/21	22mm dia. Elbow	No	5	
5/3/22	22mm dia. Equal tee	No	3	
5/3/23	22-15mm dia. Reducer	No	6	
<u>Plastic pipe compression fittings and valves</u>				
5/3/24	22 dia. Strainer valve	No	2	
Carried Forward				R
SECTION NO. 5 MECHANICAL INSTALLATIONS Bill No. 3 Wet Services <b>Inkonkoni Primary School</b>				

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Brought Forward				R
	<u>Heavy brown paper loosely wrapped around pipe as sheath for expansion</u>			
5/3/25	15-22mm dia.	m	5	
	<b><u>SANS 10252-2</u></b>			
	<u>Class 34 uPVC pipe</u>			
5/3/26	50mm dia. Pipe	m	5	
5/3/27	110mm dia. Pipe	m	5	
	<u>Class 34 uPVC fittings</u>			
5/3/28	50mm dia. 90 Degree bend	No	4	
5/3/29	110mm dia. 90 Deg bend	No	6	
5/3/30	50mm dia. 45 Degree bend	No	3	
5/3/31	110mm dia. 45 Degree bend	No	3	
5/3/32	50mm dia. Equal access junction	No	3	
5/3/33	110mm dia. 90 Degree Access bend	No	5	
5/3/34	110mm dia. Pan connector	No	5	
	<b><u>ABLUTIONS</u></b>			
	<b><u>SANS 10252-1</u></b>			
	<u>PEX Piping for above ground water reticulation system</u>			
5/3/35	15mm dia. Pipe	m	20	
5/3/36	22mm dia. Pipe	m	30	
	<u>PEX piping fittings</u>			
5/3/37	15mm dia. Elbow	No	5	
	Carried Forward			R
SECTION NO. 5 MECHANICAL INSTALLATIONS Bill No. 3 Wet Services <b>Inkonkoni Primary School</b>				

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Brought Forward				R
5/3/38	22mm dia. Elbow	No	5	
5/3/39	22mm dia. Equal tee	No	20	
5/3/40	22-15mm dia. Reducer	No	10	
<u>Plastic pipe compression fittings and valves</u>				
5/3/41	22 dia. Strainer valve	No	2	
<u>Heavy brown paper loosely wrapped around pipe as sheath for expansion</u>				
5/3/42	15-22mm dia.	m	20	
<b><u>SANS 10252-2</u></b>				
<u>Class 34 uPVC pipe</u>				
5/3/43	50mm dia. Pipe	m	10	
5/3/44	110mm dia. Pipe	m	10	
<u>Class 34 uPVC fittings</u>				
5/3/45	50mm dia. 90 Degree bend	No	4	
5/3/46	110mm dia. 90 Deg bend	No	6	
5/3/47	50mm dia. 45 Degree bend	No	5	
5/3/48	110mm dia. 45 Degree bend	No	5	
5/3/49	50mm dia. Equal access junction	No	5	
5/3/50	110mm dia. 90 Degree Access bend	No	16	
5/3/51	110mm dia. Pan connector	No	16	
<b>Carried Forward to Summary of Section No.</b>				R
SECTION NO. 5				
MECHANICAL INSTALLATIONS				
Bill No. 3				
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Item No		Quantity	Rate	Amount R
	<b><u>SECTION 5</u></b>			
	<b><u>BILL NO. 4</u></b>			
	-----			
	<b><u>LP GAS RETICULATION</u></b>			
	<b><u>SANS 10252-1</u></b>			
	<b><u>Supply and install The LP Gas System With All Associated Piping And Fittings</u></b>			
5/4/1	22mm dia. LP Gas change over valve	No	1	
5/4/2	22mm dia. LP Gas type ball valve	No	2	
5/4/3	22mm dia. Male adaptors	No	4	
5/4/4	16mm dia. Male adaptors	No	4	
5/4/5	16mm Swage nipple	No	1	
5/4/6	48kg Gas cylinder	No	2	
5/4/7	16mm dia. Gas pressure regulator	No	1	
5/4/8	22mm dia. Gas pressure regulator	No	1	
5/4/9	22mm dia. Hard drawn gas pipe	No	13	
5/4/10	16mm dia. Hard drawn gas pipe	No	1	
5/4/11	22mm dia. Flexible gas pipe	No	2	
5/4/12	Fittings and consumables			SUM
5/4/13	Heavy duty four burner gas boiling table with galvanized frame and removable galvanized drip tray.	No	1	
5/4/14	Certificate Of Conformity for gas Installations; Occupational Health And Safety Act.1993 Regulation	No	1	
	<b>Carried Forward to Summary of Section No.</b>			R
	SECTION NO. 5			
	MECHANICAL INSTALLATIONS			
	Bill No. 4			
	LP Gas Reticulation			
	<b>Inkonkoni Primary School</b>			

SECTION NO. 5

MECHANICAL INSTALLATIONS

**SECTION SUMMARY - MECHANICAL INSTALLATIONS**

Bill No		Page No	Amount R
5/1	Fire Protection	107	
5/2	HVAC Installations	109	
5/3	Wet Services	113	
5/4	LP Gas Reticulation	114	

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SECTION NO. 5  
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Item No		Quantity	Rate	Amount R
	<b><u>SECTION 6</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>BUDGETARY ALLOWANCES</u></b>			
	-----			
	<b><u>PREAMBLES</u></b>			
	<b><u>General:</u></b>			
	A Budgetary Allowance is a sum of money included in the contract sum for work intended for execution by the Contractor, the extent of which is identified but not detailed			
	Work for which budgetary allowances are provided will be measured and valued in accordance with clause 32 of the Principal Building Agreement and deducted in whole or in part if not required without any compensation for loss or profit on the said allowances			
	Each Budgetary Allowance may comprise more than one element of work			
	-----			
	<b><u>REFURBISHMENT OF STORMWATER DRAINAGE SYSTEM</u></b>			
6/1/1	Budgetary Allowance of Fifty Thousand Rand for the refurbishment of the stormwater system	Item		50 000,00
	<b><u>IRONMONGERY AND SIGNAGE</u></b>			
6/1/2	Budgetary Allowance of Forty Five Thousand Rand for additional ironmongery, signage, etc.	Item		45 000,00
	<b><u>PROVISION OF CONCRETE FURNITURE</u></b>			
6/1/3	Budgetary Allowance of Twenty Five Thousand Rand for the provision of concrete furniture	Item		25 000,00
	<b>Carried Forward</b>		R	
	SECTION NO. 6 PROVISIONAL SUMS Bill No. 1 Provisional Sums, ETC <b>Inkonkoni Primary School</b>			

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Brought Forward		R	
<b><u>REFURBISHMENT OF BURGLAR BARS AND SUN SHADES</u></b>			
6/1/4	Budgetary Allowance of Seventy Five Thousand for joinery works	Item	75 000.00
<b><u>COMMUNITY LIAISON OFFICER</u></b>			
6/1/5	Budgetary Allowance of One Hundred Thousand Rand for employment of a Community Liaison Officer for a duration of ten (10) months	Item	100 000.00
<b><u>REFURBISHMENT OF CONCRETE COLUMNS AND STRUCTURAL CRACKS</u></b>			
6/1/6	Budgetary Allowance of One Hundred and Ninety Five Thousand for the refurbishment of concrete columns and structural cracks	Item	195 000.00
<b><u>SPORT FIELDS POSTS</u></b>			
6/1/7	Budgetary Allowance of Thirty Six Thousand for the refurbishment and/or provision of sport fields posts	Item	36 000.00
<b><u>REFURBISHMENT OF STEELWORKS</u></b>			
6/1/8	Budgetary Allowance of One Hundred and Twenty Thousand for the refurbishment of all steel works	Item	120 000.00
<b><u>WATER TANKS</u></b>			
6/1/9	Budgetary Allowance of Twenty Thousand Rand for the provision of water tanks	Item	20 000.00
<b><u>BUILDER'S WORK IN CONNECTION WITH SPECIALIST INSTALLATIONS</u></b>			
6/1/10	Budgetary Allowance of Seventy Five Thousand Rand for builder's work in connection with specialist installations	Item	75 000.00
<b><u>SUBCONTRACT AMOUNTS</u></b>			
Carried Forward		R	
SECTION NO. 6 PROVISIONAL SUMS Bill No. 1 Provisional Sums, ETC <b>Inkonkoni Primary School</b>			

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**Brought Forward**

**TEMPORARY CLASSROOMS**

			R
6/1/11	Subcontract amount of One Million Rand for the provision of Temporary Classrooms	Item	1 000 000.00
6/1/12	Profit	%	
6/1/13	General attendance	%	
<b><u>AIA</u></b>			
6/1/14	Subcontract amount of One Hundred and Seventy Two Thousand Five Hundred Rand for the provision of AIA inspections	Item	172 500.00
6/1/15	Profit	%	
6/1/16	General attendance	%	

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SECTION NO. 6  
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 Bill No. 1  
 Provisional Sums, ETC  
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1	PRELIMINARIES AND GENERAL	20	
2	BUILDING WORKS	86	
3	EXTERNAL WORKS	94	
4	ELECTRICAL INSTALLATIONS	105	
5	MECHANICAL INSTALLATIONS	115	
6	PROVISIONAL SUMS	118	
	SUB TOTAL		R
	<b><u>CONTRACT CONTINGENCIES</u></b>		
	Allow 5% of the above subtotal for Contingencies to be spent as the Principal Agent may direct and/or to be deducted in whole or in part if not required		R
	SUB TOTAL		R
	<b><u>VALUE ADDED TAX</u></b>		
	Value Added Tax at 15%		R
	<b>TOTAL CARRIED TO FORM OF TENDER</b>		R
	<b>Inkonkoni Primary School</b>		