

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO 1</u></p> <p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>BUILDING AGREEMENT AND PRELIMINARIES</u></p> <p>The JBCC Principal Building Agreement (March 2014 Edition 6.1) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The JBCC Principal Building Agreement contract data form an integral part of this agreement</p> <p>The ASACS Preliminaries (March 2014 edition) published by the Association of South African Quantity Surveyors for use with the JBCC Principal Building Agreement shall be deemed to be incorporated in these bills of quantities</p> <p>The contractor 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. Where standard clauses or alternatives are not entirely applicable to this agreement such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the abovementioned documents</p> <p>Where any item is not relevant to this agreement such item is marked N/A (signifying "not applicable")</p> <p><u>Preambles for Trades</u></p> <p>The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School</p>		R	

<p style="text-align: right;">Brought Forward</p> <p>Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the Model Preambles</p> <p>The contractor's prices for all items throughout these bills of quantities shall take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles</p> <p><u>Pricing of Preliminaries</u></p> <p>Should the contractor select Option A in terms of clause 26.9.4 of the contract data for the purpose of adjustment of these preliminaries, the amount entered into the amount column in these preliminaries is to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)</p>		R	
<p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School</p>		R	

Brought Forward		R
SECTION A: PRINCIPAL BUILDING AGREEMENT		
Interpretation (A1-A7)		
1/1/1	<p>Clause 1.0 - Definitions and interpretation</p> <p>Pricing of bills of quantities</p> <p>The contractor is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes, imposts, establishment charges, overheads, profit and all other obligations arising out of the agreement</p> <p>Items left unpriced will be deemed to be covered in prices against other items throughout these bills of quantities and no claim for any extras arising out of the contractor's omission to price any item will be entertained</p> <p>Prices for all plant, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary</p> <p>Legal status of contractor</p> <p>If the contractor constitutes a joint venture consortium or other unincorporated grouping of two or more persons then:</p> <ol style="list-style-type: none"> These persons are deemed to be jointly and severally liable to the employer for the performance of this agreement These persons shall notify the employer of their leader who has authority to bind the contractor and each of these persons The contractor shall not alter its composition or legal status without the prior written consent of the employer <p>F:..... V:..... T:.....</p>	Item
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1/1/2 Clause 2.0 - Law, regulations and notices

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<p style="text-align: right;">Brought Forward</p> <p>Health and safety</p> <p>Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specification [2.1]</p> <p>The contractor shall:</p> <ol style="list-style-type: none"> 1. Comply with the health and safety specification for the works 2. Prepare and agree with the health and safety consultant the health and safety plan for the works 3. Co-operate with the health and safety consultant in all respects 4. Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification 5. Conform to the conditions contained in the employer's safety specification 		R		
<p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School</p>		R		

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		<p>Additional Preliminary Items:</p> <p>The Contractor must supply the owner with a complete and comprehensive Health and Safety plan in terms of the said latest acts of parliament and all relevant regulations and is responsible for all Health and Safety issues, procedures, processes, measures and responsibilities. In this regard the following must strictly be addressed but the onus and responsibility is not limited to this list:</p> <ol style="list-style-type: none"> 1. Safety of all machinery 2. Hard hats by all people on site 3. Dust and fume masks 4. Safety belts and lines 5. Safety of scaffolding, hoarding, screens, fences, etc. 6. Safety of gangways, planks, etc. 7. Warning signs and safety barriers 8. Safety reports to the principal agent and the client 9. Traffic safety on site and to and from the site 10. Complete Health and Safety of the public 11. Ear plugs and sound protection 12. The Contractor must adhere to and manage all aspects specifically shown on the parties Health and Safety assessment and the general and specific Health and Safety specification. Should the specification be more than that is required by regulation a fair price for this extra work based on the contract terms shall be agreed upon and be payable 13. The Contractor must appoint a Health and Safety official as required by law 14. The Contractor shall keep an up to date Health and Safety file on site 15. All Sub-contractors must adhere to the above and their responsibilities must be co-ordinated and supervised by the Contractor 16. A continuous Health and Safety assessment must be carried out by the Contractor in consultation with the Principal Agent 			
1/1/3	F:..... V:..... T:.....		Item		
1/1/4	<p>Clause 3.0 - Offer and acceptance</p> <p>F:..... V:..... T:.....</p>		Item		
		Carried Forward		R	
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	Brought Forward		R	
1/1/5	Clause 4.0 - Assignment and cession F:..... V:..... T:.....	Item		
1/1/6	Clause 5.0 - Contract documents Value Added Tax Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT) Contract drawings The contract drawings are as listed in the contract data Priced document as specification The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any [5.3] F:..... V:..... T:.....	Item		
1/1/7	Clause 6.0 - Employer's agents Delegated authority The authority of the principal agent to perform duties for specific aspects of the works is delegated to the agents as follows [6.2]:			
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<p style="text-align: right;">Brought Forward</p> <p>1. <u>Architect</u></p> <p>The architect is responsible for the architectural design, functional design and quality inspection. Without derogating from the generality thereof the architect will perform the following specific functions and duties:</p> <p>1.1 Give opinion on aspects of the works which are not in accordance with the agreement</p> <p>1.2 Supply the specified number of drawings</p> <p>1.3 Issue instructions if bills of quantities is to be used as a specification</p> <p>1.4 Be responsible for primary co-ordination of design elements</p> <p>1.5 Receive through the contractor and accept design documentation undertaken by subcontractors</p> <p>1.6 Issue instructions to the contractor regarding:</p> <p>1.6.1 Alteration to design, quality or quantity of the works provided that such instructions shall not substantially change the scope of the works</p> <p>1.6.2 Removal of any materials and goods from the site and the substitution of any materials and goods therefor</p> <p>1.6.3 Removal or re-execution of any work</p> <p>1.6.4 Opening up of work for inspection</p> <p>1.6.5 Testing of work and materials and goods</p> <p>1.6.6 Protection of the works</p> <p>1.6.7 Making good physical loss and repairing damage to the works</p> <p>1.6.8 Lists for practical completion and final completion</p> <p>1.6.9 Compliance with Acts of Parliament, regulations and bylaws</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School</p>		R		
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Brought Forward			R	
1.7	Witness the handing over to the contractor of pegs, beacons and datum levels			
1.8	Define levels and provide the contractor with the necessary information to set out the works			
1.9	Acceptance of design by subcontractors			
1.10	Inspect the works from time to time and give the contractor interpretation and guidance on the standard and state of completion required for practical completion			
1.11	Inspect the works for practical completion			
1.12	Issue the list for practical completion and re-inspect upon request of the contractor			
1.13	Issue the certificate of practical completion			
1.14	Inspect the works at the end of the defects liability period			
1.15	Issue the list for final completion and re-inspect upon request of the contractor			
1.16	Issue the certificate of final completion			
2. <u>Quantity surveyor</u>				
The quantity surveyor is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions. Without derogating from the generality thereof, the quantity surveyor will perform the following specific functions and duties:				
2.1	Consult with the contractor in correction of rates or errors and discrepancies			
2.2	Complete the contract data			
2.3	Supply the specified number of unpriced bills of quantities			
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2.4	Identify in the contract data any changes to the standard JBCC documentation and determine any loss and expense to the contractor caused by non-disclosure thereof			
2.5	Deal with amounts paid by the contractor to authorities having jurisdiction over the works			
2.6	Measure and value the making good of physical loss or damage			
2.7	Issue instructions to the contractor regarding:			
2.7.1	Rectification of discrepancies and errors in description or omissions in contract documents			
2.7.2	Furnishing proof of payment to subcontractors			
2.7.3	Budgetary allowances and work executed by the contractor			
2.7.4	Contingency and other monetary provisions included in the contract sum			
2.8	Prepare nominated and/or selected subcontract tender documents			
2.9	Receive proof from the contractor that the contractor's payment obligations have been met in respect of subcontractors			
2.10	Act on employer's instructions to pay subcontractors directly			
2.11	Adjustment of the contract value in respect of a revision to the date of practical completion			
2.12	Calculate penalties for non-completion upon receipt of the relevant information from the principal agent			
2.13	Valuation of payment claims for payment certificates			
2.14	Calculate default and compensatory interest (if any) due to the parties			
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<p style="text-align: right;">Brought Forward</p> <p>2.15 With each valuation for payment issue:</p> <p>2.15.1 A statement to the contractor and each subcontractor showing the amount certified for the relevant subcontractor</p> <p>2.15.2 A statement to the employer and contractor showing the total amount certified</p> <p>2.15.3 A recovery statement</p> <p>2.16 Determine the value of adjustments to the contract value</p> <p>2.17 Receive from the contractor details of expense and loss claims and assess such claims</p> <p>2.18 Prepare the final account and submit to the contractor</p> <p>3. <u>Civil and structural engineer</u></p> <p>The civil and structural engineer is responsible for all aspects of civil and structural engineering design and quality inspection. Without derogating from the generality thereof, the civil and structural engineer will perform the following specific functions and duties in respect of the civil and structural engineering aspects of the works:</p> <p>3.1 Give opinion on aspects of the works which are not in accordance with the agreement</p> <p>3.2 Supply the specified number of drawings</p> <p>3.3 Issue instructions if bills of quantities is to be used as a specification</p> <p>3.4 Receive and accept design documentation undertaken by subcontractors</p> <p>3.5 Issue instructions to the contractor regarding:</p> <p>3.5.1 Alteration to design, quality or quantity of the works provided that such instructions shall not substantially change the scope of the works</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School</p>		R		
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	<div>Brought Forward</div>		R	
3.5.2	Removal of any materials and goods from the site and the substitution of any materials and goods therefor			
3.5.3	Removal or re-execution of any work			
3.5.4	Opening up of work for inspection			
3.5.5	Testing of work and materials and goods			
3.5.6	Protection of the works			
3.5.7	Making good physical loss and repairing damage to the works			
3.5.8	Compliance with Acts of Parliament, regulations and bylaws			
3.6	Define levels and provide the contractor with the necessary information to set out the works			
3.7	Acceptance of design by subcontractors			
3.8	Inspect the works from time to time and give the contractor interpretation and guidance on the standard and state of completion required for practical completion			
3.9	Inspect the works for practical completion			
3.10	Issue the list for practical completion and re-inspect upon request of the contractor			
3.11	Inspect the works at the end of the defects liability period			
3.12	Issue the list for final completion and re-inspect upon request of the contractor			
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<p style="text-align: right;">Brought Forward</p> <p>4. <u>Mechanical engineer</u></p> <p>The mechanical engineer is responsible for all the aspects of mechanical engineering design. Without derogating from the generality thereof the mechanical engineer will perform the following specific functions and duties in respect of the mechanical engineering aspects of the works:</p> <p>4.1 Give opinion on aspects of the works which are not in accordance with the agreement</p> <p>4.2 Supply the specified number of drawings</p> <p>4.3 Issue instructions if bills of quantities is to be used as a specification</p> <p>4.4 Receive and accept design documentation undertaken by subcontractors</p> <p>4.5 Issue instructions to the contractor regarding:</p> <p>4.5.1 Alteration to design, quality or quantity of the works provided that such instructions shall not substantially change the scope of the works</p> <p>4.5.2 Removal of any materials and goods from the site and the substitution of any materials and goods therefor</p> <p>4.5.3 Removal or re-execution of any work</p> <p>4.5.4 Opening up of work for inspection</p> <p>4.5.5 Testing of work and materials and goods</p> <p>4.5.6 Protection of the works</p> <p>4.5.7 Making good physical loss and repairing damage to the works</p> <p>4.5.8 Compliance with Acts of Parliament, regulations and bylaws</p> <p>4.6 Provide the contractor with the necessary information to set out the works</p>		R		
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<p style="text-align: right;">Brought Forward</p> <p>4.7 Acceptance of design by subcontractors</p> <p>4.8 Inspect the works from time to time and give the contractor interpretation and guidance on the standard and state of completion required for practical completion</p> <p>4.9 Inspect the works for practical completion</p> <p>4.10 Issue the list for practical completion and re-inspect upon request of the contractor</p> <p>4.11 Inspect the works at the end of the defects liability period</p> <p>4.12 Issue the list for final completion and re-inspect upon request of the contractor</p> <p>5. <u>Electrical engineer</u></p> <p>The electrical engineer is responsible for all aspects of electrical engineering design and quality inspection. Without derogating from the generality thereof the electrical engineer will perform the following specific functions and duties in respect of the electrical engineering aspects of the works:</p> <p>5.1 Give opinion of aspects of the works which are not in accordance with the agreement</p> <p>5.2 Supply the specified number of drawings</p> <p>5.3 Issue instructions if bills of quantities is to be used as a specification</p> <p>5.4 Receive and accept design documentation undertaken by subcontractors</p> <p>5.5 Issue instructions to the contractor regarding:</p> <p>5.5.1 Alteration to design, quality or quantity of the works provided that such instructions shall not substantially change the scope of the works</p> <p>5.5.2 Removal of any materials and goods from the site and the substitution of any materials and goods therefor</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School</p>		R		
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<p style="text-align: right;">Brought Forward</p> <p>5.5.3 Removal or re-execution of any work</p> <p>5.5.4 Opening up of work for inspection</p> <p>5.5.5 Testing of work and materials and goods</p> <p>5.5.6 Protection of the works</p> <p>5.5.7 Making good physical loss and repairing damage to the works</p> <p>5.5.8 Compliance with Acts of Parliament, regulations and bylaws</p> <p>5.6 Provide the contractor with the necessary information to set out the works</p> <p>5.7 Acceptance of design by subcontractors</p> <p>5.8 Inspect the works from time to time and give the contractor interpretation and guidance on the standard and state of completion required for practical completion</p> <p>5.9 Inspect the works for practical completion</p> <p>5.10 Issue the list for practical completion and re-inspect upon request of the contractor</p> <p>5.11 Inspect the works at the end of the defects liability period</p> <p>5.12 Issue the list for final completion and re-inspect upon request of the contractor</p> <p>6. <u>Wet services engineer</u></p> <p>The wet services engineer is responsible for all the aspects of wet services engineering design and quality inspection. Without derogating from the generality thereof the wet services engineer will perform the following specific functions and duties in respect of the wet services aspects of the works:</p> <p>6.1 Give opinion on aspects of the works which are not in accordance with the agreement</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School</p>		R		
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<p style="text-align: right;">Brought Forward</p> <p>6.2 Supply the specified number of drawings</p> <p>6.3 Issue instructions if bills of quantities is to be used as specification</p> <p>6.4 Receive and accept design documentation undertaken by subcontractors</p> <p>6.5 Issue instructions to the contractor regarding:</p> <p>6.5.1 Alteration to design, quality or quantity of the works provided that such instructions shall not substantially change the scope of the works</p> <p>6.5.2 Removal of any materials and goods from the site and the substitution of any materials and goods therefor</p> <p>6.5.3 Removal or re-execution of any work</p> <p>6.5.4 Opening up of work for inspection</p> <p>6.5.5 Testing of work and materials and goods</p> <p>6.5.6 Protection of the works</p> <p>6.5.7 Making good physical loss and repairing damage to the works</p> <p>6.5.8 Compliance with Acts of Parliament, regulations and bylaws</p> <p>6.6 Provide the contractor with the necessary information to set out the works</p> <p>6.7 Acceptance of design by subcontractors</p> <p>6.8 Inspect the works from time to time and give the contractor interpretation and guidance on the standard and state of completion required for practical completion</p> <p>6.9 Inspect the works for practical completion</p> <p>6.10 Issue the list for practical completion and re-inspect upon request of the contractor</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School</p>		R		
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<p style="text-align: right;">Brought Forward</p> <p>6.11 Inspect the works at the end of the defects liability period</p> <p>6.12 Issue the list for final completion and re-inspect upon request of the contractor</p> <p>7. <u>Fire consultant</u></p> <p>The fire consultant is responsible for all the aspects of rational fire design and quality inspection. Without derogating from the generality thereof the fire consultant will perform the following specific functions and duties in respect of the rational fire design aspects of the works:</p> <p>7.1 Give opinion on aspects of the works which are not in accordance with the agreement</p> <p>7.2 Supply the specified number of drawings</p> <p>7.3 Issue instructions if bills of quantities is to be used as specification</p> <p>7.4 Receive and accept design documentation undertaken by subcontractors</p> <p>7.5 Issue instructions to the contractor regarding:</p> <p>7.5.1 Alteration to design, quality or quantity of the works provided that such instructions shall not substantially change the scope of the works</p> <p>7.5.2 Removal of any materials and goods from the site and the substitution of any materials and goods therefor</p> <p>7.5.3 Removal or re-execution of any work</p> <p>7.5.4 Opening up of work for inspection</p> <p>7.5.5 Testing of work and materials and goods</p> <p>7.5.6 Protection of the works</p> <p>7.5.7 Making good physical loss and repairing damage to the works</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School</p>		R		
		R		

<p style="text-align: right;">Brought Forward</p> <p>7.5.8 Compliance with Acts of Parliament, regulations and bylaws</p> <p>7.6 Provide the contractor with the necessary information to set out the works</p> <p>7.7 Acceptance of design by subcontractors</p> <p>7.8 Inspect the works from time to time and give the contractor interpretation and guidance on the standard and state of completion required for practical completion</p> <p>7.9 Inspect the works for practical completion</p> <p>7.10 Issue the list for practical completion and re-inspect upon request of the contractor</p> <p>7.11 Inspect the works at the end of the defects liability period</p> <p>7.12 Issue the list for final completion and re-inspect upon request of the contractor</p> <p>8. <u>Health and safety consultant</u></p> <p>The health and safety consultant is responsible for all aspects of health and safety. Without derogating from the generality thereof, the health and safety consultant will perform the following specific functions and duties in respect of the health and safety aspects of the works:</p> <p>8.1 Act as the client's (employer's) agent in terms of Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993</p> <p>8.2 Prepare and update the health and safety specification for the works</p> <p>8.3 Agree with the contractor the health and safety plan for the works</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School</p>		R		
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	8.4 Carry out regular audits to ensure adherence to the safety plan and compliance with the Act and Regulations			
	F:..... V:..... T:.....	Item		
1/1/8	Clause 7.0 - Design responsibility			
	F:..... V:..... T:.....	Item		
	<u>Insurance and security (A8-A11)</u>			
1/1/9	Clause 8.0 - Works risk			
	F:..... V:..... T:.....	Item		
1/1/10	Clause 9.0 - Indemnities			
	F:..... V:..... T:.....	Item		
1/1/11	Clause 10.0 - Insurances			
	F:..... V:..... T:.....	Item		
1/1/12	Clause 11.0 - Security			
	Security for payment			
	The employer shall not provide to the contractor security for payment. [11.4.1,11.10]			
	The Employer shall not provide a payment guarantee however the Contractor shall waive his lien or right of continuous possession			
	Extension of waiver of lien			
	The contractor shall ensure that a waiver of lien is included in all subcontracts and that the works executed on the site are kept free of all liens and other encumbrances at all times [11.10]			
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	<u>Execution (A12 - A17)</u>			
1/1/13	Clause 12.0 - Duties of the parties			
1/1/14	Clause 12.1.2 - Existing Premises (N/A)			
	See Contract Data. Reference as [12.1.2]			
	Clause 12.1.3 - Relevant natural features			
	Trees may only be cut on approval by the Principal Agent			
	Clause 12.1.3 - Known services			
	Known services will be pointed out but the contractor must first contact the principal agent before any interference is allowed.			
	Clause 12.1.4 - Site Restriction			
	See Contract Data. Reference as [12.1.4]			
	Clause 12.1.5 - Access to Services			
	See Contract Data. Reference as [12.1.5]			
	Clause 12.2.15 - Enclosure of the works			
	The contractor shall erect, maintain and remove at completion hoardings with gantries, fans, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof, all for the protection of the public and others [12.2.15]			
	Clause 12.2.18 - Office accommodation			
	The contractor shall erect, maintain and remove at completion airconditioned office accommodation with suitable tables and chairs for meetings to be held on the site . Such offices shall be kept clean and fit for use at all times [12.2.18]			
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	<p>Clause 12.2.18 - Notice board</p> <p>The contractor shall erect in a position approved by the principal agent, maintain and remove at completion a notice board as recommended by the South African Institute of Architects listing the names and logos of the employer, the contractor and the professional consultants. No subcontractor or supplier notice boards may be erected [12.2.18]</p> <p>Geotechnical investigation report</p> <p>For the results, a geotechnical investigation report is attached to these Bills of Quantities</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/15	<p>Clause 13.0 - Setting out</p> <p>Encroachments</p> <p>The contractor shall notify the principal agent if any encroachment of adjoining foundations, buildings, structures, pavements, boundaries, services, etc exist in order that the necessary arrangements may be made for the rectification of any such encroachments [13.2.1]</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/16	<p>Clause 14.0 - Nominated subcontractors</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/17	<p>Clause 15.0 - Selected subcontractors</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/18	<p>Clause 16.0 - Direct contractors</p> <p>Attendance on direct contractors</p> <p>In respect of direct contractors the contractor shall:</p> <p>1. Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials</p>			
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	Brought Forward		R	
	<p>2. Allow the use of personnel welfare facilities, where provided</p> <p>3. Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation</p> <p>4. Permit the direct contractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right while it remains erected on the site [16.1]</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/19	<p>Clause 17.0 - Contract instructions</p> <p>Site instructions</p> <p>Instructions issued on site are to be recorded in a site instruction book which is to be supplied and maintained on site by the contractor</p> <p>F:..... V:..... T:.....</p> <p><u>Completion (A18 - A24)</u></p>	Item		
1/1/20	<p>Clause 18.0 - Interim completion</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/21	<p>Clause 19.0 - Practical completion</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/22	<p>Clause 20.0 - Sectional completion (N/A)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/23	<p>Clause 21.0 - Defects liability period and final completion</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 1</p> <p>Preliminaries</p> <p>Bill No. 1</p> <p>Preliminaries</p> <p>Dr Blok Secondary School</p>			

	Brought Forward		R	
1/1/24	Clause 22.0 - Latent defects liability period F:..... V:..... T:.....	Item		
1/1/25	Clause 23.0 - Revision of date for practical completion Substitution of materials and goods The removal or substitution of any materials and goods which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [17.1.8, 23.1 & 2] F:..... V:..... T:.....	Item		
1/1/26	Clause 24.0 - Penalty for late or non-completion F:..... V:..... T:.....	Item		
1/1/27	Payment (A25 - A27) Clause 25.0 - Payment Payment Days The Payment Certificates will be paid within 21 days Materials and goods stored off site The inclusion of materials and goods stored off site in the amount authorised for payment shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor , of an approved security [25.3.2] Fluctuations in costs All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor [25.3.4]			
	Carried Forward		R	
	Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School			

	Brought Forward		R	
	<p>Prices submitted</p> <p>Where prices are submitted by the contractor or subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the agreement and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the certificate of final completion, it shall be in writing</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/28	<p>Clause 26.0 - Adjustment of the contract value and final account</p> <p>Tenant installations'/users' requirements delayed</p> <p>There is a possibility that certain works related to tenant installations'/users' requirements may have to be delayed and may consequently not be executed prior to practical completion</p> <p>The employer reserves the right to omit such work without compensation to the contractor for loss of profit or any other loss which the contractor may suffer as a result of such omission</p> <p>Should the contractor be instructed to do so he shall execute this work under the conditions pertaining to this agreement on the basis that a separate amount for preliminaries appurtenant to this work (if applicable) is agreed to between the contractor and the principal agent and on condition that instruction to proceed with such work is given to him within a period of three (3) calendar months after the date of practical completion of the works</p>			
	Carried Forward		R	
	<p>Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School</p>			

	Brought Forward		R	
	Cost of claims			
	All costs incurred by the contractor in the preparation of claims shall be borne by the contractor			
	The contractor shall review, assess and adjudicate any claims received by him from any subcontractor and thereafter submit same to the principal agent with a recommendation to assist the principal agent in adjudicating the claim [26.6]			
	F:..... V:..... T:.....	Item		
1/1/29	Clause 27.0 - Recovery of expense and/or loss			
	F:..... V:..... T:.....	Item		
	<u>Suspension and termination (A28 - A29)</u>			
1/1/30	Clause 28.0 - Suspension by the contractor			
	F:..... V:..... T:.....	Item		
1/1/31	Clause 29.0 - Termination			
	F:..... V:..... T:.....	Item		
	<u>Dispute resolution (A30)</u>			
1/1/32	Clause 30.0 - Dispute resolution			
	F:..... V:..... T:.....	Item		
1/1/33	Agreement			
	The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties			
	F:..... V:..... T:.....	Item		
1/1/34	Contract data			
	Before submission of his tender the contractor is to complete the tenderer's selection in the contract data			
	Carried Forward		R	
	Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School			

1/1/35	<p style="text-align: right;">Brought Forward</p> <p><u>Substitute Provisions</u></p> <p>Refer to post tender Provisions</p> <p><u>Contract data - Principal Building Agreement</u></p> <p>The schedule: Information (Contract Data)</p> <p>F:..... V:..... T:.....</p> <p>Information necessary for completion of those clauses contained in the contract data which are necessary for tender purposes is given hereunder</p> <p>1.1 Employer : Developent Bank of Southern Africa</p> <p>Physical Address : 1258 Lever Road, Headway Hill, Midrand</p> <p>Code : 1632</p> <p>Tel : 011 313 3500</p> <p>E-mail : ThandoM@dbsa.org</p> <p>1.2 Principal Agent : DBI Consulting</p> <p>Physical Address : Unit 8 Berkley Office Park, 8 Bauhinia St, Highveld Techno Park</p> <p>Code : 0014</p> <p>Tel : 012 665 0289</p> <p>E-mail : vuyo@dbiconsulting.co.za</p>	Item	R		
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School</p>		R		

Brought Forward			R	
1.3 Agents service	: Architect			
Agent (1)	: Songo Design Lab			
Physical Address	: 48 Hillcrest Drive, Beacon Bay, East London			
Code	: 5214			
Tel	: 084 208 0038			
E-mail	: cobus@songodesignlab.co.za			
1.4 Agents service	: Quantity Surveyor			
Agent (2)	: Boitseanape Quantity Surveyors			
Postal address	: PO Box 781, Taung Station			
Code	: 8580			
Tel	: 018 384 0074			
Fax	: 086 595 4211			
E-mail	: lekutlekl@yahoo.com			
1.5 Agents service	: Civil & Structural Engineers			
Agent (3)	: DBI Consulting			
Physical address	: Unit 8 Berkley Office Park, 8 Bauhinia St, Highveld Techno Park			
Code	: 0014			
Tel	: 012 665 0289			
E-mail	: vuyo@dbiconsulting.co.za			
Carried Forward			R	
Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School				

Brought Forward			R	
1.6 Agents service	: Electrical Engineers			
Agent (4)	: Khangwe Intelligent Technology Solutions			
Postal address	: PO Box 166977 Brackendowns			
Code	: 1454			
Tel	: 078 261 2776			
Fax	: 086 731 8355			
E-mail	: maureen@khanwegroup.co.za			
1.7 Agents service	: Mechanical Engineers			
Agent (5)	:			
Postal address	:			
Code	:			
Tel	:			
Fax	:			
E-mail	:			
1.8 Agents service	: OHS Consultants			
Agent (6)	: SHE Group			
Physical address	: 5 Walter Sisulu Road, Universitas Bloemfontein			
Code	: 9301			
Tel	: 044 873 2530			
E-mail	: tokkie@shegroup.co.za			
Carried Forward			R	
Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School				

<p style="text-align: right;">Brought Forward</p> <p>1.8 Interest of Principal Agent or other agents in the project Where "yes" the specific requirements are described below or detailed in the contract document</p> <p style="text-align: right;">(yes/no)</p> <p style="text-align: center;">[NO]</p> <p>Details where "yes" _____</p> <p><u>2. CONTRACT AND SITE INFORMATION</u></p> <p>2.1. The law applicable to agreement</p> <p style="text-align: right;">(Country/State)</p> <p style="text-align: center;">[RSA]</p> <p>2.2. Works Identification:</p> <p>This project comprises of additions to existing school.</p> <p>2.3 Site Description:</p> <p>The site is situated in Dr Blok School Coordinates:</p> <p>2.4 Date on which possession of the site is intended to be given:</p> <p>Appointment of Contractor <i>To be determined</i></p> <p>Possession of site by Contractor <i>To be determined</i></p> <p>2.5 Period for the commencement of the works after the Contractor takes possession of the site</p> <p style="text-align: right;">(working day)</p> <p style="text-align: center;">[5]</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School</p>		R		
		R		

<p style="text-align: right;">Brought Forward</p> <p>2.6 Completion in sections is required:</p> <p style="text-align: right;">(yes/no) [NO] (no of sections) [0]</p> <p>2.7 Waiver of contractors lien or right of continuing possession is required</p> <p style="text-align: right;">(yes/no) [YES]</p> <p>2.8 Defined restrictions to the site area. Where "yes" the specific requirements are described below or detailed in the contract documents</p> <p style="text-align: right;">(yes/no) [YES]</p> <p>2.9 Geotechnical investigation of the site has been undertaken. Where "yes" results are included in the contract documents</p> <p style="text-align: right;">(yes/no) [Yes]</p> <p>2.10 Existing premises will be occupied. Where "yes" the specific requirements are described below or detailed in the contract document.</p> <p style="text-align: right;">(yes/no) [NO]</p> <p>2.11 Provision of temporary services is required. Where "yes" the specific requirements are described below or detailed in the contract documents</p> <p style="text-align: right;">(yes/no) [YES]</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School</p>		R		
		R		

Brought Forward			R	
2.11.1 Water	Option A Option B Option C	Contractor - his cost Employer - free of charge Employer - metered (
contractor cost)		(A,B or C)		
[A]				
2.11.2 Electricity	Option A Option B Option C	Contractor - his cost Employer - free of charge Employer - metered (
contractor cost)		(A,B or C)		
[A]				
2.11.3 Telecom	Option A Option B Option C	Contractor - his cost Employer - free of charge Employer - metered (
contractor cost)		(A,B or C)		
[A]				
2.11.4 Ablutions	Option A Option B	Contractor - his cost Employer - Free of charge		
		(A or B)		
[A]				
Place and position of ablutions must be done in accordance with the principal agent's instructions.				
2.12 Protection of existing trees and shrubs is required. Where "yes" the specific requirements are described below or detailed in the contract documents				
Trees and plants that are to be removed will be pointed out by the Principal Agent (removal elsewhere included in these Bills of Quantities)				
		(yes/no)		
[YES]				
Carried Forward			R	
Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School				

Brought Forward		R	
3. INSURANCES			
3.1	Contract works insurance to be effected by (Employer/Contractor) [CONTRACTOR] For the sum of: CONTRACT SUM PLUS 20% With a deductible of: AS PER POLICY		
3.2	Supplementary/special insurance is required. The Employer is responsible for effecting this insurance (Employer/Contractor) [CONTRACTOR] For the sum of: With a deductible of:		
3.3	Public liability insurance to be effected by (Employer/Contractor) [CONTRACTOR] For the sum of: R5,000,000.00 With a deductible of: The Contractor is to effect this insurance. The Contractor must also insure for all the risks related to his own activities as no liability will be taken by the Employer or anybody else for the negligent actions of the Contractor. All actions must be taken by the Contractor to secure the works and interests of both parties		
3.4	Support insurance to be effected by (Employer/Contractor) [NOT APPLICABLE] For the sum of R With a deductible of R		
3.5	Special insurance to be effected by (Employer/Contractor) [NOT APPLICABLE] For the sum of R With a deductible of R		
Carried Forward		R	
Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School			

<p style="text-align: right;">Brought Forward</p> <p>4. PRACTICAL COMPLETION AND PENALTIES</p> <p>4.1 Intended date of practical completion and the penalty per calendar day for the works as a whole:</p> <p>Date: 24 months</p> <p>Penalty amount per calendar day: R 6 000.00</p> <p>4.2 Intended date of practical completion and the penalty per calendar day for work in sections:</p> <p>Section 1: NOT APPLICABLE Penalty amount per calendar day: N/A</p> <p>5. DOCUMENTS AND GENERAL</p> <p>5.1 Number of construction document copies to be supplied free of charge</p> <p style="text-align: right;">(no of)</p> <p style="text-align: center;">[3]</p> <p>5.2 The priced document may be used as a specification of materials and goods and work methods</p> <p style="text-align: right;">(yes/no)</p> <p style="text-align: center;">[NO]</p> <p>5.3 The Contractor shall provide a schedule of rates</p> <p style="text-align: right;">(yes/no)</p> <p style="text-align: center;">[NO]</p> <p style="text-align: right;">(Addendum No)</p> <p style="text-align: center;">[]</p> <p>5.4 Details of changes made to the provisions of JBCC standard documentation as contained herein</p> <p style="text-align: right;">(yes/no) [YES]</p> <p style="text-align: right;">(Addendum No) [A]</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School</p>		R		
		R		

<p style="text-align: right;">Brought Forward</p> <p>5.5 On acceptance of the Tender, the Bills of Quantities/lump sum document is to be submitted within the stated working days - forms part of Tender</p> <p style="text-align: right;">(No of)</p> <p style="text-align: center;">[0]</p> <p>5.6 Work to be undertaken by direct contractors</p> <p style="text-align: right;">(yes/no)</p> <p style="text-align: center;">[NO]</p> <p style="text-align: right;">(Addendum No) []</p> <p>5.7 Manuals related to the works must be submitted to the Principal Agent as listed below: To be given during the construction period: Co-ordinated by the Principal Agent</p> <p>5.8 Interim payment certificate to be issued by</p> <p style="text-align: right;">(Date of month)</p> <p style="text-align: center;">[15]</p>		R	
<p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School</p>		R	

	Brought Forward		R	
	SECTION B - PRELIMINARIES: MARCH 2014: PUBLISHED BY THE ASAQS			
	<u>Interpretation (B1)</u>			
1/1/36	Clause 1.1 - Definitions F:..... V:..... T:.....	Item		
1/1/37	Clause 1.2 - Interpretation F:..... V:..... T:.....	Item		
	<u>Documents (B2)</u>			
1/1/38	Clause 2.1 - Checking of documents F:..... V:..... T:.....	Item		
1/1/39	Clause 2.2 - Provisional bills of quantities Multiple procurement These bills of quantities are in multiple procurement format ie the "wet trades" - earthworks, concrete, formwork and reinforcement, precast concrete, masonry, waterproofing and sub-surface drainage - are provisionally measured and the subsequent trades are budgetary allowances and/or provisional sums F:..... V:..... T:.....	Item		
1/1/40	Clause 2.3 - Availability of construction information Budgetary allowances and provisional sums The budgetary allowances and/or provisional sums allocated for subsequent trades included in this agreement will be separately procured, based on multiple procurement of subcontractors during the construction period F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School			

	Brought Forward		R	
	<u>Previous work and adjoining properties (B3)</u>			
1/1/41	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item		
1/1/42	Clause 3.2 - Previous work - defects F:..... V:..... T:.....	Item		
1/1/43	Clause 3.3 - Inspection of adjoining properties F:..... V:..... T:.....	Item		
	<u>Samples, shop drawings and manufacturer's instructions (B4)</u>			
1/1/44	Clause 4.1 - Samples of materials F:..... V:..... T:.....	Item		
1/1/45	Clause 4.2 - Workmanship samples F:..... V:..... T:.....	Item		
1/1/46	Clause 4.3 - Shop drawings F:..... V:..... T:.....	Item		
1/1/47	Clause 4.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....	Item		
	<u>Deposits and fees (B5)</u>			
1/1/48	Clause 5.1 - Deposits and fees F:..... V:..... T:.....	Item		
	<u>Temporary services (B6): Clause 6.1, 6.2, 6.3 and 6.4: "Refer to Contract and Site Information" ((2.1 - 2.11) of this document (these Bills of Quantities)</u>			
1/1/49	Clause 6.1 - Water F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School			

	Brought Forward		R	
1/1/50	Clause 6.2 - Electricity F:..... V:..... T:.....	Item		
1/1/51	Clause 6.3 - Ablution and welfare facilities F:..... V:..... T:.....	Item		
1/1/52	Clause 6.4 - Communication facilities F:..... V:..... T:.....	Item		
	<u>Prime cost amounts (B7)</u>			
1/1/53	Clause 7.1 - Responsibility for prime cost amounts <u>Attendance on subcontractors (B8)</u>			
1/1/54	Clause 8.1 - General attendance F:..... V:..... T:.....	Item		
1/1/55	Clause 8.1 - Special attendance Where provisional sums are stated any requirements for special attendance shall be inserted against the claims for each n/s Sub-contractor separately. Refer to provisional sums F:..... V:..... T:.....	Item		
	<u>General (B9)</u>			
1/1/56	Clause 9.1 - Protection of the works F:..... V:..... T:.....	Item		
1/1/57	Clause 9.2 - Protection/isolation of existing/sectionally occupied works			
1/1/58	Clause 9.3 - Security of the works F:..... V:..... T:.....	Item		
1/1/59	Clause 9.4 - Notice before covering work F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School			

	Brought Forward		R	
1/1/60	Clause 9.5 - Disturbance F:..... V:..... T:.....	Item		
1/1/61	Clause 9.6 - Environmental disturbance Controlling all forms of pollution The contractor shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution during the construction period due <i>inter alia</i> to noise, artificial light, wind-blown sand, dust, deposits of mud, etc The contractor is to ensure that all roads which border the site and is used by the contractor during the execution of the works are kept clean and free of any dirt or debris caused by the execution of the works F:..... V:..... T:.....	Item		
1/1/62	Clause 9.7 - Works cleaning and clearing F:..... V:..... T:.....	Item		
1/1/63	Clause 9.8 - Vermin F:..... V:..... T:.....	Item		
1/1/64	Clause 9.9 - Overhand work F:..... V:..... T:.....	Item		
	<u>Schedule (B10)</u> Information necessary for elections and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that no specific requirements are expected or that the clause is not relevant to this specific contract			
	Carried Forward		R	
	Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School			

<p style="text-align: right;">Brought Forward</p> <p>10.1 - Provisional Bills of Quantities [clause 2.2]</p> <p>The quantities are provisional (yes/no) [YES]</p> <p>10.2 - Availability of construction documentation [clause 2.3]</p> <p>Construction documentation is complete (yes/no) [YES]</p> <p>10.3 - Previous work - dimensional accuracy [clause 3.1]</p> <p>[N/A]</p> <p>10.4 - Previous work - defects [clause 3.2]</p> <p>[N/A]</p> <p>10.5 - Inspection of adjoining properties [clause 3.3]</p> <p>(yes/no) [YES]</p> <p>10.6 - Water [6.1]</p> <p>Option A (by contractor) Yes/No [YES]</p> <p>Option B (by employer - free of charge) Yes/No Option C (by employer - metered) Yes/No</p> <p>10.7 - Electricity [6.2]</p> <p>Option A (by contractor) Yes/No [YES]</p> <p>Option B (by employer - free of charge) Yes/No Option C (by employer - metered) Yes/No</p>		R		
<p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School</p>		R		

	Brought Forward		R	
	10.8 - Ablution and welfare facilities [6.3]			
	Option A (by contractor)	Yes/No		
	[YES]			
	Option B (by employer)	Yes/No		
	10.9 - Communication facilities [6.4]			
	10.10 - Protection of the works [9.1]			
	10.11 - Protection/isolation of existing/sectionally occupied works [9.2]			
	Protection/isolation is required	Yes/No		
	[YES]			
	10.12 - Disturbance [clause 9.5]			
	All work is to be carried out in such a manner as to cause no unacceptable or unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic in so far as they exceed the permissible limitations set by government legislation or the local authority. Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the construction period or contract value whatsoever			
	10.13 - Environmental disturbance [clause 9.6]			
	Extreme care must be taken not to disturb the direct environment, natural of otherwise			
	<u>SECTION C - SPECIFIC PRELIMINARIES</u>			
1/1/65	Contract instructions (clause C1)			
	Instructions issued on site are to be recorded in triplicate in an instruction book which is to be maintained on site by the Contractor			
	F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1			
	Preliminaries			
	Bill No. 1			
	Preliminaries			
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	Brought Forward		R	
1/1/66	Warranties for material and workmanship (clause C2) Where warranties for materials and/or workmanship are called for, the Contractor shall obtain a written warranty, addressed to the Employer, from the firm supplying the materials and/or doing the work and shall deliver same to the Principal Agent on the certified completion of the contract. The warranty shall state that workmanship, materials and installation are warranted for a specified period from the date of final completion and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice to do so. The warranty will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the Contractor F:..... V:..... T:.....	Item		
1/1/67	Co-operation of Contractor for cost management (clause C3) It is specifically agreed that the Contractor accepts the obligation of assisting the Principal Agent in implementing proper cost management. The Contractor will be advised by the Principal Agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The Principal Agent undertakes to make available to the Contractor all budgetary allowances and cost assessments/reports to enable the proper procedure to be implemented and the Contractor shall attend all cost plan review and cost management meetings. The Contractor undertakes to extend these procedures, as necessary, to all Sub-contractors F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School			

	Brought Forward		R		
1/1/68	Propping of floors below (clause C4) 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. Design of temporary works and supports remains the responsibility of the Contractor F:..... V:..... T:.....	Item			
1/1/69	Testing of windows for watertightness (clause C5) Each window shall be tested for watertightness with water sprayed on using adequate pressure. If in the opinion of the Principal Agent, the pressure proves to be inadequate, then the pressure shall be boosted by means of compressed air or other approved means F:..... V:..... T:.....	Item			
1/1/70	Testing of flat roof waterproofing for watertightness (clause C6) Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the Principal Agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing F:..... V:..... T:.....	Item			
1/1/71	Proprietary branded products (clause C7) The Contractor shall take delivery of, handle, store, use apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instruction after consultation with the manufacturer's authorized representative F:..... V:..... T:.....	Item			
	Carried Forward		R		
	Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School				

	Brought Forward		R	
1/1/72	Overtime (clause C8) Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the Contractor unless the Principal Agent has specifically authorized in writing, prior to the execution thereof, that costs for such overtime are to be borne by the Employer F:..... V:..... T:.....	Item		
1/1/73	As built drawings (clause C9) The position of construction breaks and the extent of individual concrete pours are to be recorded by the Contractor on the Structural Engineer's drawings and are to be submitted to the Principal Agent and the Structural Engineer for their records F:..... V:..... T:.....	Item		
1/1/74	Labour record (clause C10) At the end of each week the Contractor shall provide the Principal Agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all Sub-contractors on the works each day F:..... V:..... T:.....	Item		
1/1/75	Plant record (clause C11) At the end of each week the Contractor shall provide the Principal Agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works F:..... V:..... T:.....	Item		
1/1/76	Non cession of monies (clause C12) The Contractor shall not cede nor assign his rights or claims to any monies due or to become due under this contract F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School			

	Brought Forward		R		
1/1/77	Confidentiality (clause C13) The Contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all Sub-contractors 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			
1/1/78	Control of sand, dust, mud light and noise pollution on site, public spaces, public roads, etc. (clause C14) The Contractor shall be responsible for and take all precautions in controlling all forms of pollution during the contract period due to noise, artificial light, wind-blown sand, dust, etc. in the dry season and deposits of mud, etc. in the wet season by whatever means necessary and daily removal of deposits, etc., all to the satisfaction of the Principal Agent and any costs, claims, etc. will be for the Contractor's account F:..... V:..... T:.....	Item			
1/1/79	Health & Safety (clause C15) The Contractor shall allow for Health and Safety according to the Occupational Health and Safety Act, 1993, Construction Regulations 2003 as per Government Notice No R1010, dated 18 July 2003. Contractor to include all OHS requirements such as PPE, safety file, training, medicals, signage, safety officer and covid regulations F:..... V:..... T:.....	Item			
	SUMMARY OF CATEGORIES Category : Fixed R..... Category : Value R..... Category : Time R.....				
	Carried to Final Summary		R		
	Section No. 1 Preliminaries Bill No. 1 Preliminaries Dr Blok Secondary School				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO.1</u></p> <p><u>DEMOLITIONS AND ALTERATIONS (PROVISIONAL)</u></p> <p><u>NOTE</u></p> <p>The Contractor is advised to visit the site prior to pricing the following items in order to ascertain the exact nature and full extent of the works as no liability whatsoever shall be accepted as a result of brevity of descriptions.</p> <p><u>All dimensional descriptions are to be treated as approximate.</u></p> <p><u>The Contractor shall, in all cases, allow for disposal of materials arising from demolition and alteration works. This shall apply even if it is not expressly provided for on the description of an item.</u></p> <p><u>Demolition of brick walls shall be deemed to include removal and carting away sundry items existing within the walls to be demolished except for doors, door frames and window frames which are elsewhere measured.</u></p> <p><u>The Employer shall retain the right of ownership of materials arising from demolitions unless otherwise stated.</u></p> <p>The Contractor shall, in all cases, allow for disposal of materials arising from demolition and alteration works. This shall apply even if it is not expressly provided for on the description of an item.</p> <p>The Employer shall retain the right of ownership of materials arising from demolitions.</p> <p>The Contractor will be held responsible for and is to make good at his own expense any damage caused to the existing remaining structures and surrounding buildings and all work not to be removed during the progress of the works and also to any fittings, etc., and is to leave all perfect and watertight on completion, cover and protect as necessary</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 Alterations (Provisional) Bill No. 1 Alterations Dr Blok Secondary School</p>		R	

SUPPLEMENTARY PREAMBLES

TEMPORARY BARRIERS, SCREENS, ETC

Temporary barriers, screens, etc including removal

m

200

Carried to Final Summary

R

Section No. 2
Alterations (Provisional)
Bill No. 1
Alterations
Dr Blok Secondary School

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 1</u></p> <p><u>FOUNDATIONS (PROVISIONAL)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE: Unless otherwise stated all the items in this bill shall be deemed to fall into Work Group No. 104 for Haylett Formula purposes.</p> <p>NOTE: The Tenderer is referred to the relevant Clause in the separate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.</p> <p>NOTE: The foundations have measured to the top of the surface bed. Foundations depths shall be confirmed on site. All excavations shall not be covered prior to the approval and recording of the depths by the Engineer.</p> <p><u>Nature of ground</u></p> <p>Use "assumed to be" if no trial holes, soils investigations, etc have been carried out - discuss with engineer. Use "Trial holes indicate that" where the ground has been investigated by means of trial holes.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>Proprietary Products in Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 3 Building Works Bill No. 1 Foundations (Provisional) Dr Blok Secondary School</p>		R	

<p style="text-align: right;">Brought Forward</p> <p><u>Nature of Material To Be Excavated</u></p> <p>The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"</p> <p><u>Carting Away of Excavated Material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site</p> <p><u>Density Testing On Filling</u></p> <p>Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved</p> <p>When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally</p> <p>Soil poisoning shall be conducted with an approved registered soil poisoning material of the chlordane or aldrin type mixed with water and then applied at a rate of not less than 5 litres per square metre. The concentration of the solution shall be in accordance with the manufacturer's instructions, to the approval of the Principal Agent and/or Civil Engineer and undertaken under such supervision.</p>		R		
<p style="text-align: right;">Carried Forward</p> <p>Section No. 3 Building Works Bill No. 1 Foundations (Provisional) Dr Blok Secondary School</p>		R		

		Brought Forward		R	
		<u>Carting away of excavated material</u>			
		Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.			
		<u>EXCAVATION, FILLING, ETC</u>			
		<u>Excavation in earth not exceeding 2m deep</u>			
3/1/1	Trenches, holes, etc.	m3	1 420		
	<u>Extra over excavation in earth for excavation in</u>				
3/1/2	Soft rock	m3	85		
3/1/3	Hard rock	m3	79		
	<u>Extra over all excavations for carting away</u>				
3/1/4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	798		
	<u>Risk of collapse of excavations</u>				
3/1/5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	1 280		
	<u>Keeping excavations free of water</u>				
3/1/6	Keeping excavations free of all water other than subterranean water		Item		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density</u>				
3/1/7	Backfilling to trenches, holes, etc	m3	314		
	<u>Approved non - expansive imported inert granular filling under solid floors, supplied and carted on by Contractor, compacted in layers not exceeding 150 mm to 93% HCE density</u>				
3/1/8	Under floors, steps, pavings, etc	m3	445		
		Carried Forward		R	
	Section No. 3 Building Works Bill No. 1 Foundations (Provisional) Dr Blok Secondary School				

	Brought Forward			R	
	<u>Compaction of surfaces</u>				
3/1/9	Trim, rip and recompaction of ground surface under floors, etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density.	m2	4 153		
	<u>Soil insecticide</u>				
3/1/10	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	4 153		
3/1/11	To bottoms and sides of trenches etc	m2	3 763		
	<u>Insulation</u>				
3/1/12	50mm Lambdaboard laminated Polyisocyanurate core board installed in strict accordance with manufacturer's specifications	m	892		
	<u>UNREINFORCED CONCRETE</u>				
	<u>10MPa/19mm concrete</u>				
3/1/13	50mm Thick surface blinding under footings	m3	70		
	<u>25MPa/19mm concrete</u>				
3/1/14	Strip footings	m3	426		
	<u>TEST BLOCKS</u>				
3/1/15	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	70		
	<u>MASONRY (CPAP Work Group No. 118)</u>				
	<u>BRICKWORK</u>				
	<u>Brickwork of NFP bricks in class II mortar</u>				
3/1/16	One brick walls	m2	2 122		
	<u>FACE BRICKWORK</u>				
	Carried Forward			R	
	Section No. 3 Building Works Bill No. 1 Foundations (Provisional) Dr Blok Secondary School				

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>PREAMBLES</u></p> <p>NOTE: The Tenderer is referred to the relevant Clause in the separate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.</p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Principal Agent.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE: Unless otherwise stated all the items in this bill shall be deemed to fall into Work Group No. 110 for Haylett Formula purposes.</p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)</p> <p>Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 3 Building Works Bill No. 2 Concrete, Formwork and Reinforcement Dr Blok Secondary School</p>		R	

		Brought Forward		R	
		<p><u>"Foamcement " lightweight concrete</u></p> <p>"Foamcement" lightweight concrete is to have a density of 600kg/m³ for the top 50mm and 400kg/m³ for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 50mm</p> <p><u>"Celbeton" lightweight concrete</u></p> <p>"Celbeton" lightweight concrete is to have a density of 1000kg/m³ for the top 20mm and 480kg/m³ for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 30mm</p> <p><u>Formwork</u></p> <p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</p> <p>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p> <p><u>UNREINFORCED CONCRETE</u></p> <p><u>25MPa/19mm concrete</u></p>			
3/2/1	Aprons cast in panels	m3	45		
		<u>REINFORCED CONCRETE</u>			
		Carried Forward		R	
	<p>Section No. 3</p> <p>Building Works</p> <p>Bill No. 2</p> <p>Concrete, Formwork and Reinforcement</p> <p>Dr Blok Secondary School</p>				

		Brought Forward			R	
		<u>25MPa/19mm concrete</u>				
3/2/2	Surface beds on waterproofing	m3	311			
3/2/3	Thickening under surface beds	m3	1			
		<u>TEST BLOCKS</u>				
3/2/4	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	32			
		<u>CONCRETE SUNDRIES</u>				
		<u>Finishing top surfaces of concrete smooth with a wood float</u>				
3/2/5	Surface beds, slabs, etc	m2	1 361			
3/2/6	Ramps, aprons, etc. to falls	m2	409			
		<u>FORMWORK</u>				
3/2/7	30mm thick cavity insulation all as per manufacturers instructions	m2	719			
		<u>Rough formwork to sides</u>				
3/2/8	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	150			
3/2/9	To slab opening not exceeding 2m girth.	No	6			
3/2/10	Slab propped up not exceeding 1,5m high.	m2	15			
		<u>Smooth formwork (Degree of Accuracy I) to soffits of</u>				
3/2/11	Slabs propped up exceeding 1.5m and not exceeding 3.5m high	m2	461			
3/2/12	Slabs propped up not exceeding 1.5m high	m2	100			
		<u>MOVEMENT JOINTS ETC (PROVISIONAL)</u>				
3/2/13	10mm Isolation Joints not exceeding 300mm high	m	842			
		<u>REINFORCEMENT (PROVISIONAL)</u>				
		Carried Forward			R	
	Section No. 3 Building Works Bill No. 2 Concrete, Formwork and Reinforcement Dr Blok Secondary School					

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 3</u></p> <p><u>MASONRY</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE: Unless otherwise stated all the items in this bill shall be deemed to fall into Work Group No. 118 for Haylett Formula purposes.</p> <p>NOTE: The Tenderer is referred to the relevant Clause in the seperate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.</p> <p><u>BRICKWORK</u></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><u>Hollow walls etc</u></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p>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 "Brixal" bitumen emulsion waterproofing coating.</p> <p><u>User note:</u></p> <p>The above preamble generally applies for works in hot and humid coastal areas</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 3 Building Works Bill No. 3 Masonry Dr Blok Secondary School</p>		R	

		Brought Forward			R	
	<u>Pointing</u>					
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc					
	<u>SUPERSTRUCTURE</u>					
	<u>Brickwork of NFX bricks (14 Mpa nominal compressive strength) in class I mortar</u>					
3/3/1	Piers	m3	53			
3/3/2	Half brick wall	m2	333			
3/3/3	Half brick wall in beamfilling.	m2	172			
3/3/4	One brick walls	m2	1 792			
3/3/5	270mm Hollow wall of two half brick skins including wire ties	m2	739			
	<u>BRICKWORK SUNDRIES</u>					
	<u>Movement Joints</u>					
3/3/6	10mm 'Jointex' expansion joint built in vertically between brick walls	m2	291			
3/3/7	Movement joint formed of 20mm softboard built in vertically between brick wall and concrete	m	282			
	<u>Brickwork reinforcement</u>					
3/3/8	Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured nett).	m	1 362			
3/3/9	150mm Wide reinforcement built in horizontally	m	6 127			
	<u>Prestressed fabricated lintels</u>					
3/3/10	220 x 75mm Lintels in lengths not exceeding 3m	m	186			
	<u>Turning pieces</u>					
3/3/11	220mm Wide turning piece to lintels etc	m	213			
		Carried Forward			R	
	Section No. 3 Building Works Bill No. 3 Masonry Dr Blok Secondary School					

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 4</u></p> <p><u>WATERPROOFING</u></p> <p><u>PREAMBLES</u></p> <p><u>PREAMBLES:</u> The Tenderer is referred to the relevant Clause in the separate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.</p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Principal Agent.</p> <p>NOTE: Unless otherwise stated all the items in this bill shall be deemed to fall into Work Group No. 120 for Haylett Formula purposes.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p><u>Proprietary Products in Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p>NOTE: Unless otherwise stated all the items in this bill shall be deemed to fall into Work Group No. 120 for Haylett Formula purposes.</p> <p><u>Waterproofing</u></p> <p>Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 3 Building Works Bill No. 4 Waterproofing Dr Blok Secondary School</p>		R	

Brought Forward			R
<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
<u>One layer of 375 micron embossed damp proof course</u>			
On foundation walls	m2	429	
On walls, stepped up in cavities, under cills,around door frames etc.	m2	229	
<u>One layer of 250 micron waterproof sheeting sealed at laps with approved tape</u>			
Under surface beds	m2	4 153	
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Building Works			
Bill No. 4			
Waterproofing			
Dr Blok Secondary School			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 5</u></p> <p><u>ROOF COVERINGS ETC</u></p> <p><u>PREAMBLES</u></p> <p><u>PREAMBLES:</u> The Tenderer is referred to the relevant Clause in the separate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.</p> <p>NOTE: Unless otherwise stated all the items in this bill shall be deemed to fall into Work Group No. 124 for Haylett Formula purposes.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>Proprietary Products in Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Fixing</u></p> <p>Fixing shall be done according to SABS 1200HB with minimum 150mm end laps where roof pitch exceeds 15 degree and 250mm for other roof pitches</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 3 Building Works Bill No. 5 Roof Coverings, etc Dr Blok Secondary School</p>		R	

<p style="text-align: right;">Brought Forward</p> <p><u>Guarantee</u></p> <p>All roof coverings and side cladding are to be installed to comply with SABS Code of Practice 0237 where applicable. All roof sheeting shall be laid under a 5 year guarantee for site workmanship and water tightness.</p> <p><u>Notes:</u></p> <p>The Contractor is to submit to the consultant Architect a certificate signed by the Merchant, stating that the galvanized roof covering supplied complies with the required thickness specified</p> <p>All holes through profiled metal sheeting are to be drilled</p> <p>NOTE: Unless otherwise stated all the items in this bill shall be deemed to fall into Work Group No. 124 for Haylett Formula purposes.</p> <p>NOTE: The Tenderer is referred to the relevant Clause in the separate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.</p> <p>Notes :</p> <p>The following roof sheeting systems are to be installed in strict accordance with the Manufacturer's and/or Supplier's specifications.</p> <p>Fixing of all roof sheeting is to be in accordance with the Manufacturer's approved Instruction Book.</p> <p>The Manufacturer shall comply with ISO9002 Quality Management System.</p> <p>A written and approved five year guarantee of site-workmanship and watertightness shall be issued after final inspection of concealed-fix roofing by the Manufacturer</p>		R	
<p style="text-align: right;">Carried Forward</p> <p>Section No. 3 Building Works Bill No. 5 Roof Coverings, etc Dr Blok Secondary School</p>		R	

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 6</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>Proprietary Products in Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p>NOTE: Unless otherwise stated all the items in this bill shall be deemed to fall into Work Group No. 126 for Haylett Formula purposes.</p> <p>NOTE: The Tenderer is referred to the relevant Clause in the separate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.</p> <p><u>Particle board:</u></p> <p>Particle board shall comply with the following specifications:</p> <p>a) SABS 1300 Particle board: exterior and flooring type</p> <p>b) SABS 1301 Particle board: interior type</p> <p><u>Joinery:</u></p> <p>Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 3 Building Works Bill No. 6 Carpentry and Joinery Dr Blok Secondary School</p>			
			R	

<p style="text-align: right;">Brought Forward</p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><u>Decorative laminate finish:</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p><u>Roof trusses, etc.</u></p> <p>Prefabricated trusses shall be fabricated in a factory by a truss fabricator who has been awarded a Certificate of Competence by the Institute of Timber Construction and is approved by the Principal Agent.</p> <p>Each roof truss shall have all its members accurately cut and closely butted together and rigidly fixed by CSIR approved patented galvanized metal spiked connectors, precision pressed on both sides of each intersection by an approved method, all in accordance with the manufacturers instructions</p> <p>The design, manufacture and transportation of the roof trusses, bracing, etc shall be under the control of a registered Structural Engineer in accordance with SANS 1900, SANS 10160 and SANS 10163, who shall, after erection, provide a certificate confirming that the design, manufacture, transportation, erection and bracing has been carried out in accordance with this specification</p> <p>The design shall include for all live loads, wind loads and for dead loads imposed by roof covering, purlins, ceilings, etc</p> <p>Fully detailed shop drawings of all trusses etc, indicating sizes, bracing, loading, etc, shall be submitted to the Principal Agent for approval prior to fabrication</p> <p>Unless specific erection instructions are given, erection shall be carried out in accordance with the procedures and recommendations of the manual The Erection and Bracing of Timber Roof Trusses published by the Institute for Timber Construction and the Council for Scientific and Industrial Research or as detailed by the designer</p> <p>Roof trusses and bracing shall include design and preparation of shop drawings</p>		R	
<p style="text-align: right;">Carried Forward</p> <p>Section No. 3 Building Works Bill No. 6 Carpentry and Joinery Dr Blok Secondary School</p>		R	

Brought Forward

R

Notes: **The Contractor will be required to provide a certificate of approval signed by a registered engineer certifying that the trusses have been designed, manufactured and installed in accordance with relevant SANS specifications.**

PLATE NAILED PREFABRICATED ROOF TRUSSES

The following is applicable in respect with roof trusses:

- a) Trusses are at maximum 1200mm centres and constructed for a 25 degrees pitch unless otherwise stated. Roof covering is 0.6mm corrugated iron sheeting on 50 x 76mm purlins. Ceilings are of 6,4mm gypsum plasterboard sheeting on 38 x 38mm brandering, nailed directly below the trusses. The dimensions in the descriptions are nominal and actual measurements shall be obtained from the principal agent and/or the site before design or fabrication commences.
- b) All roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take corrugated roof covering, purlins and fibre cement or gypsum plasterboard ceilings with brandering. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanised metal spiked connectors, fixed on both sides of each intersection by an approved method, all in accordance with manufacturer's instructions.
- c) Unless otherwise described all rafter feet are to extend 500mm beyond the length of the tie beam on one side, and 610mm on the other side.
- d) The design, manufacture and transportation of the roof trusses, bracing, etc. shall be under the control of a registered engineer in accordance with SABS 0243 and it shall be required from the manufacturer of the truss to lodge a written guarantee that his construction has been designed by a qualified structural engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Representative Agent.

Carried Forward

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Section No. 3
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Dr Blok Secondary School

	Brought Forward			R	
	<p>e) The tenderer's attention is drawn to the fact that the detail drawings represent only the overall size and bearing points of the trusses and not the required design.</p> <p>f) Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa and the National Timber Research Institute.</p> <p>g) Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, etc. and for temporary bracing.</p>				
3/6/1	Roof construction to double pitched roof with two gable ends, 21230 x 12442mm and 1250mm high overall with 800mm overhang on both sides including trusses and permanent bracing (wall plates, purlins, battens, etc. elsewhere) (take specific note of cantilever details at walkway) (Provisional)	No	2		
3/6/2	Roof construction to double pitched roof with two gable ends, 22310 x 10122mm and 1550mm high overall with 800mm overhang on both sides including trusses and permanent bracing (wall plates, purlins, battens, etc. elsewhere) (take specific note of cantilever details at walkway) (Provisional)	No	2		
3/6/3	Roof construction to double pitched roof with two gable ends, 22878 x 11244mm and 1850mm high overall with 800mm overhang on both sides including trusses and permanent bracing (wall plates, purlins, battens, etc. elsewhere) (take specific note of cantilever details at walkway) (Provisional)	No	2		
3/6/4	Roof construction to double pitched roof with two gable ends, 28693 x 10122mm and 1550mm high overall with 800mm overhang on both sides including trusses and permanent bracing (wall plates, purlins, battens, etc. elsewhere) (take specific note of cantilever details at walkway) (Provisional)	No	1		
3/6/5	Roof construction to double pitched roof with two gable ends, 29120 x 10122mm and 1550mm high overall with 800mm overhang on both sides including trusses and permanent bracing (wall plates, purlins, battens, etc. elsewhere) (take specific note of cantilever details at walkway) (Provisional)	No	6		
	Carried Forward			R	
	<p>Section No. 3</p> <p>Building Works</p> <p>Bill No. 6</p> <p>Carpentry and Joinery</p> <p>Dr Blok Secondary School</p>				

	Brought Forward			R	
3/6/6	Roof construction to double pitched roof with two gable ends, 30719 x 13860mm and 1550mm high overall with 800mm overhang on both sides including trusses and permanent bracing (wall plates, purlins, battens, etc. elsewhere) (take specific note of cantilever details at walkway) (Provisional)	No	1		
3/6/7	Roof construction to double pitched roof with two gable ends, 31240 x 10122mm and 1550mm high overall with 800mm overhang on both sides including trusses and permanent bracing (wall plates, purlins, battens, etc. elsewhere) (take specific note of cantilever details at walkway) (Provisional)	No	1		
	<u>SUNDRY ROOF TIMBERS</u>				
	<u>Sawn Softwood (Grade 4)</u>				
3/6/8	38 x 76mm runners	m	1 281		
3/6/9	38 x 114mm Wall plates	m	1 102		
3/6/10	76 x 50mm Purlins	m	2 854		
3/6/11	76 x 50mm Splayed purlins	m	310		
	<u>Roof Sundries</u>				
3/6/12	"Hurricane clip between truss and windbracing (Provisional)	No	754		
3/6/13	"Hurricane clip between truss and purlins (Provisional)	No	1 506		
	<u>SKIRTINGS:</u>				
	<u>Wrought Meranti:</u>				
3/6/14	19 x 76mm Meranti hardwood skirting nailed to walls with heads of nails punched and filled including 25mm quarter round fitted to bottom edge.	m	821		
	Carried Forward			R	
	Section No. 3 Building Works Bill No. 6 Carpentry and Joinery Dr Blok Secondary School				

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		Brought Forward		R	
		<u>Softboard:</u>			
3/6/24	10mm Thick softboard pinning board fixed to plastered wall with an approved adhesive.	m2	141		
		<u>Wrought Saligna:</u>			
3/6/25	19 x 50mm Rebated and angle rounded framing plugged and pelleted.	m	273		
		<u>MOULDINGS AND SUNDRIES</u>			
		<u>Supawood</u>			
3/6/26	16 x 150mm dado border rail twice corner rounded and once hollow grooved at back, plugged and pelleted	m	494		
		<u>FURNITURE</u>			
		<u>Classrooms</u>			
3/6/27	Standard single desk for secondary learners: 650H x 450D x 550W	No	800		
3/6/28	Senior nicky polyshell: 400H (Orange)	No	800		
3/6/29	Teacher's desk: 725H x 900D x 1500W	No	35		
3/6/30	Stackable chair 410mm: 19mm square tubing frame: black	No	40		
		<u>Administration building:</u>			
3/6/31	Monte 2000 x 1000 CPU combination desk with inlay (mahogany veneer)	No	1		
3/6/32	High black PU leather chair	No	1		
3/6/33	Visitor's PU leather chair	No	2		
3/6/34	Monte hinged door cupboard 1500 x 900	No	1		
		<u>Deputy principal</u>			
3/6/35	Versi 2000 x 900 desk with link, pedastal amd credenza (mahogany melanine)	No	1		
		Carried Forward		R	
	Section No. 3 Building Works Bill No. 6 Carpentry and Joinery Dr Blok Secondary School				

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 7</u></p> <p><u>CEILINGS, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>NOTE: Unless otherwise stated all the items in this bill shall be deemed to fall into Work Group No. 129 for Haylett Formula purposes.</p> <p>NOTE: The Tenderer is referred to the relevant Clause in the separate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.</p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Principal Agent.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>Proprietary Products in Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Descriptions:</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 3 Building Works Bill No. 7 Ceilings, Partitions & Access Flooring Dr Blok Secondary School</p>		R	

	Brought Forward			R	
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere				
	<u>CEILINGS ETC</u>				
	<u>NAILED UP CEILINGS</u>				
	<u>6.4mm Gyproc Rhinoboard with H-type pressed steel jointing strips</u>				
3/7/1	Gyproc rhinoboard 12.5mm is fixed to timber bracing installed at maximum centres. All joints shall be staggered. Apply gyproc rhino tape to all joints and cover it with 2 layers of gyproc rhinoglide	m2	3 173		
3/7/2	Extra over ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	15		
	<u>INSULATION, ETC</u>				
	<u>Approved non-combustible blanket insulation</u>				
3/7/3	Roof insulation to main roof areas to be Isover 135mm thick aerolite non-combustible light weight fibreglass glasswool thermal ceiling insulation (Code: 11316) closely fitted between tie beams and laid loose on top of bracing between roof timbers all as per manufacturers instructions	m2	3 173		
	<u>CORNICES</u>				
3/7/4	75mm polystyrene cove cornice	m	1 539		
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3				
	Building Works				
	Bill No. 7				
	Ceilings, Partitions & Access Flooring				
	Dr Blok Secondary School				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 8</u></p> <p><u>FLOOR COVERING, PLASTIC LINING, ETC</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE: Unless otherwise stated all the items in this bill shall be deemed to fall into Work Group No. 130 for Haylett Formula purposes.</p> <p>NOTE: The Tenderer is referred to the relevant Clause in the separate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.</p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Principal Agent.</p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>Proprietary Products in Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>FLOOR COVERINGS</u></p> <p><u>Polyflor 2.0mm thick vinyl floor tiles laid in acrylic adhesive spread with a notched trowel on suitably prepared cement screed floors with a hygrometer reading showing a moisture content of less than 70%, with joints welded with a fully flexible coloured polyflor welding rod to provide a smooth finish all in accordance with manufacturer's recommendation or similar approved</u></p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 3 Building Works Bill No. 8 Floor Coverings, etc Dr Blok Secondary School</p>		R	

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 9</u></p> <p><u>IRONMONGERY</u></p> <p><u>PREAMBLES</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>Proprietary Products in Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>Descriptions:</u></p> <p>Ironmongery is fixed to timber unless otherwise described.</p> <p>NOTE: Unless otherwise stated all the items in this bill shall be deemed to fall into Work Group No. 132 for Haylett Formula purposes.</p> <p>NOTE: The Tenderer is referred to the relevant Clause in the separate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.</p>			
	<p>Carried Forward</p> <p>Section No. 3 Building Works Bill No. 9 Ironmongery Dr Blok Secondary School</p>		R	

	Brought Forward			R
	<u>Finishes to ironmongery</u> Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded			
	<u>HINGES AND BOLTS</u>			
3/9/1	150mm CH Barrel bolt	No	39	
	<u>LOCKSETS</u>			
	<u>The following locks are to be keyed alike, including three keys per lock</u>			
3/9/2	75mm 4 lever, upright lock with three keys, for-end and striking plate	No	103	
3/9/3	Cast Zinc Bathroom indicator bolt.	No	20	
3/9/4	Silver Anodised Helping Hand Indicator.	No	7	
3/9/5	63mm Brass five pin tumbler padlock with two keys	No	15	
	<u>Handles</u>			
3/9/6	100mm Chromium plated bow handle bolted through door with the bolt ends hammered to prevent the nuts being removed	No	103	
	<u>LETTERS, NAMEPLATES, ETC</u>			
	Carried Forward			R
	Section No. 3 Building Works Bill No. 9 Ironmongery Dr Blok Secondary School			

	Brought Forward			R	
	<u>3mm Thick rectangular perspex name plate with black letters (letters to be 33,5mm Sans Serif Helvetica Medium and to be 7mm from edges of sign) on back, with light grey background and vinyl protection layer, with edges of perspex polished fixed to doors with suitable double sided tape</u>				
3/9/7	32mm Diameter perspex key tags, each with two holes and engraved with a two digit number, including 22mm diameter spring steel "spiral" type clips for attaching to keys	No	20		
	<u>Aluminium</u>				
3/9/8	160 x 160 x 3mm Thick satin anodised aluminium pushplate with fire extinguisher pictogram	No	12		
3/9/9	160 x 160 x 3mm Thick satin anodised aluminium pushplate with fire hose reel pictogram	No	12		
	<u>Doorstops</u>				
3/9/10	Satin chrome plated semicircular floor mounted door stop	No	99		
	<u>BATHROOM FITTINGS</u>				
	<u>"Kimberly clarke" or similar approved</u>				
3/9/11	MR2 Stainless steel toilet tissue dispenser stainless steel (Code: SA426130) overall size 130 x 135 x 256mm high installed by kimberly clarke installation team	No	19		
	<u>GRAB RAILS</u>				
3/9/12	Chairman Industries SR3 Grab rail or similar approved.	No	7		
3/9/13	Chairman Industries DL2 Dogleg Grab rail or similar approved.	No	7		
3/9/14	Chairman Industries SR2 Grab rail or similar approved.	No	7		
	<u>WALL MOUNTED WRITING BOARDS</u>				
3/9/15	Parrot magnetic whiteboard 1 820 x 1 220mm high including 2 x side panels wide and 1229 high with pen tray, wall mounted.	No	29		
3/9/16	Parrot 1 800 x 900mm high aluminium framed bulletin board with concealed mounting and additional bracket	No	35		
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3				
	Building Works				
	Bill No. 9				
	Ironmongery				
	Dr Blok Secondary School				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 10</u>			
	<u>METALWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	NOTE: Unless otherwise stated all the items in this bill shall be deemed to fall into Work Group No. 136 for Haylett Formula purposes.			
	NOTE: The Tenderer is referred to the relevant Clause in the separate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.			
	<u>Descriptions</u>			
	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			
	Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	<u>SECURITY GATES</u>			
	<u>Steel security gates, screens, etc. installed complete including all subframes, bolts, expansion bolts, etc</u>			
3/10/1	31.7 x 31.7mm square hollow steel section, with 40mm flat bar louvres all as per manufacturer's specification.	m	10	
3/10/2	Shutterway stylish security gate to fit door opening 900 x 2100mm and fixed of door threshold all as per manufacturer's specification. Ref G01	No	10	
3/10/3	Shutterway stylish security gate to fit door opening 1 000 x 2100mm and fixed of door threshold all as per manufacturer's specification. Ref G04	No	1	
	Carried Forward		R	
	Section No. 3 Building Works Bill No. 10 Metalwork Dr Blok Secondary School			

	Brought Forward			R	
3/10/4	Shutterway stylish security gate to fit door opening 3 440 x 2100mm and fixed of door threshold all as per manufacturer's specification. Ref G3	No	3		
	MILD STEEL WINDOW FRAMES				
	All windows are to be constructed of heavy duty window sections. No light duty sections are to be employed in the works and if any such window sections are employed they will be rejected.				
	<u>Standard school type windows including chrome plated fittings to suite sashes, with and including 20 x 5mm galvanised mild steel flat bar burglar proofing as per NBP2 pattern, welded to frames at centre-line of panes</u>				
3/10/5	Window W01, overall size 889 x 854mm high standard steel type, vertical steel window	No	222		
3/10/6	Window W02, overall size 889 x 1 248mm high standard school type, vertical steel window	No	92		
3/10/7	Window W03, overall size 889 x 457mm high standard steel type, vertical steel window	No	78		
3/10/8	Window W04, overall size 673 x 511mm high standard steel type, vertical steel window	No	41		
	<u>METAL DOORS</u>				
3/10/9	Standard DDA French Door, overall size 1524 x 2134mm high.	No	2		
	<u>ALUMINIUM WINDOWS</u>				
3/10/10	Aluminium roller shutter, overall size 3860 x 1 200mm high in accordance with SANS 613 with surface natural anodised aluminium colour silver.	No	1		
3/10/11	Aluminium roller shutter, overall size 2000 x 1 200mm high in accordance with SANS 613 with surface natural anodised aluminium colour silver.	No	1		
	<u>STRONGROOM, RECORD ROOM DOORS, VENTILATORS, ETC</u>				
	Carried Forward			R	
	Section No. 3 Building Works Bill No. 10 Metalwork Dr Blok Secondary School				

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 11</u></p> <p><u>PLASTERING</u></p> <p><u>PREAMBLES</u></p> <p>NOTE: The Tenderer is referred to the relevant Clause in the separate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.</p> <p><u>Proprietary Products in Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><u>NOTE:</u> <i>Screed mix designs must be done by the engineer and the sand tested in a laboratory beforehand. A mechanical mixer is preferred to ensure a homogeneous smooth plaster, screed, etc. mixtures and each batch should be mixed for not less than 3 minutes. The time which elapse between the start of mixing a batch and when it is placed, should not exceed 45 minutes and during that time, the mix should be protected from drying out. Regular strength tests must be conducted to these mixes.</i></p> <p><i>A level screed must be provided and a special large wooden trowel to be used. Screeds should be inspected and tested to determine deviation from datum level and surface regularity. The strength of the screed, once it has dried-out, must be test regular using the "BRE screed tester" as well as tests to check the adhesion between screed and base.</i></p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 3 Building Works Bill No. 11 Plastering Dr Blok Secondary School</p>		R	

	Brought Forward			R	
	NOTE: Unless otherwise stated all the items in this bill shall be deemed to fall into Work Group No. 142 for Haylett Formula purposes.				
	<u>Epoxy floor coated screed, all strictly in accordance with spec:</u>				
3/11/1	On internal floors	m2	92		
	<u>Wood Floated Screeds on concrete</u>				
3/11/2	Wood Floated Screed	m2	115		
	<u>SCREEDS</u>				
	<u>Screeds on concrete</u>				
3/11/3	38mm Thick on floors to receive ceramic tiles	m2	174		
3/11/4	38mm Thick on floors to receive vinyl tiles	m2	2 907		
	<u>318/20 9mm epoxy floor coating laid to screed, (screed elsewhere) all strictly in accordance with approved manufacturer's instructions:</u>				
3/11/5	On internal floors	m2	63		
3/11/6	20 x 100mm high skirting coved at junction with floor and fair edge.	m	49		
	<u>INTERNAL PLASTER</u>				
	<u>One coat (4:1) cement plaster</u>				
3/11/7	On walls	m2	1 622		
3/11/8	Narrow widths	m2	75		
	<u>EXTERNAL PLASTER</u>				
	<u>One coat (4:1) cement plaster</u>				
3/11/9	On walls	m2	700		
3/11/10	Narrow widths	m2	60		
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3				
	Building Works				
	Bill No. 11				
	Plastering				
	Dr Blok Secondary School				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 12</u></p> <p><u>TILING</u></p> <p><u>PREAMBLES</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Preambles</u></p> <p>NOTE: Unless otherwise stated all items in this bill shall be deemed to fall into Worgroup No. 144 for Haylett formula purposes.</p> <p><u>Proprietary Products in Descriptions</u></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p>NOTE: Descriptions:</p> <p>Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc., shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc., shall be deemed to include 1:3 plaster bedding.</p> <p>All tiling is to be fixed with approved adhesive unless otherwise described to screeded or plastered surfaces which are elsewhere measured. All jointing is to be done with an approved grout unless otherwise described.</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 3 Building Works Bill No. 12 Tiling Dr Blok Secondary School</p>		R	

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 13</u></p> <p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE: Unless otherwise stated all the items in this bill shall be deemed to fall into Work Group No. 146 for Haylett Formula purposes.</p> <p>NOTE: The Tenderer is referred to the relevant Clause in the separate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.</p> <p><u>Vitrified clay pipes:</u></p> <p>Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi dry state immediately before pipes are laid</p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p><u>uPVC pipes and fittings:</u></p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed</p> <p><u>uPVC pressure pipes and fittings:</u></p> <p>Pipes for water supply shall be of the class stated</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p> <p>Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push in type joints</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 3 Building Works Bill No. 13 Plumbing and Drainage Dr Blok Secondary School</p>		R	

<p style="text-align: right;">Brought Forward</p> <p><u>Copper pipes:</u></p> <p>Pipes shall be hard drawn and half-hard pipes of the class stated. 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" or similar and approved type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground</p> <p><u>Fixing of pipes</u></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level</p> <p><u>Reducing fittings</u></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 claim for extra bushes, reducers, etc will be entertained</p> <p><u>Excavations</u></p> <p>No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling</p> <p>"Soft rock" and "hard rock" shall be as defined in "Earthworks"</p> <p><u>Laying, backfilling, bedding, etc. of pipes</u></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions</p>		R		
<p style="text-align: right;">Carried Forward</p> <p>Section No. 3 Building Works Bill No. 13 Plumbing and Drainage Dr Blok Secondary School</p>		R		

<p style="text-align: right;">Brought Forward</p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding</p> <p><u>Flush pans</u></p> <p>Flush pans shall have straight or side outlets and "P" or "S" traps as necessary</p> <p><u>Stainless steel basins, sinks, wash troughs, urinals, etc.</u></p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><u>Waste unions</u></p> <p>Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings</p> <p><u>"Densyl" petrolatum anti corrosion tape as manufactured by Denso SA (Pty) Ltd.</u></p> <p>Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described</p> <p>Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Lay flat" sheeting, securing of same, etc</p> <p><u>SANITARY FITTINGS:</u></p>		R	
<p style="text-align: right;">Carried Forward</p> <p>Section No. 3 Building Works Bill No. 13 Plumbing and Drainage Dr Blok Secondary School</p>		R	

	Brought Forward			R	
	<u>Stainless steel:</u>				
3/13/1	Franke Projectline Model PLN621 Grade 304 18/10 polished stainless steel double end bowl inset sink (Code: 1990031), overall size 1200 x 460mm with two 340 x 370 x 140mm deep bowls, fitted onto cupboards(elsewhere specified) sink to include plumbing kit (Code: 1120009) mixer (Code: 1150019) (kitchen cabinets by specialist).	No	7		
3/13/2	Franke 1,2mm Grade 304 18/10 stainless steel BE Barron bowl urinal (Code: 2540055), size 316 x 241 x 425mm high , Cobra Junior Flushmaster (Code: FJB 102) exposed back entry flush valve, 40mm waste outlet, pressed perforated stainless steel grid and chrome plated button spreader connected to 15mm water supply, 2mm thick mounting plate bolted to wall with anchor bolts	No	10		
3/13/3	Franke 1,6mm Grade 304 18/10 stainless steel SSW12 hospital surgeon scrub-up unit (Code: 2630044), size 1200 x 460 x 555mm with radiused internal corners, front and side of unit to be of double walled construction with inner wall sprayed with vermin proof bitumastic sound deadening approximately 2mm thick, 150mm high integral splashback, 40mm waste outlet connected to cobra chromium plated bottle trap (code: 345/40), connected to 15mm water supply, fixed to emovable 2mm thick galvanised mild steel fixing plate and bolted to wall with anchor bolts 900mm from finished floor level	No	12		
	<u>Sanitary fittings:</u>				
3/13/4	Lecico Atlas 50cm basin with semi pedestal clour white , fixed with stainless steel screws and washers to plugs in wall and sealed with abe Dow corning acetoxo silicone sealant where basin meets wall	No	12		
3/13/5	Lecico Neon front flush close coupled WC colour white suite comprising seat and cover bolted to bowl white vitreous china pan with P or S trap, 9 litre low-level white vitreous china cistern complete with valveless syphonic fitting, ball valve and matching flush pipe and heavy duty white single flap seat	No	20		
	Carried Forward			R	
	Section No. 3 Building Works Bill No. 13 Plumbing and Drainage Dr Blok Secondary School				

	Brought Forward			R	
3/13/6	Lecico Atlas raised CC WC with side lever colour white suite comprising seat and cover bolted to bowl white vitreous china pan with P or S trap, 9 litre low-level white vitreous china cistern complete with valveless syphonic fitting, ball valve and matching flush pipe and heavy duty white single flap seat	No	8		
3/13/7	Lecico Atlas 40cm urinal colour white with back inlet and waste outlet including wall mounting brackets and connected to water supply, sealed with silicone sealant where urinal meets wall	No	8		
	<u>WASTE UNIONS, ETC.:</u>				
3/13/8	32mm "301" Basin waste union.	No	10		
3/13/9	40mm Chromium plated brass wash trough union with backnut, plug and chain.	No	4		
3/13/10	40mm "310" Sink waste union.	No	2		
	<u>TRAPS, ETC.:</u>				
	<u>Butyl rubber:</u>				
3/13/11	40mm Double flexitrap.	No	5		
3/13/12	40 x 50mm Reseal combination type "P" or "S" trap	No	6		
3/13/13	50mm "Cobra 365/50 CP" or other approved chromium plated bottle trap	No	7		
3/13/14	"Rofo sales cc - code RO 280 (H) NW 100" or other approved stainless steel floor trap drain.	No	3		
3/13/15	"VA 2.360" sink "P" trap.	No	2		
3/13/16	32mm "345/50" CP bottle trap.	No	5		
3/13/17	80mm Cast iron glass enamelled internally urinal trap cast into concrete including caulked lead joint to cast iron pipe and CP outlet grill.	No	2		
	<u>TAPS, VALVES, ETC.:</u>				
3/13/18	30mm "318" CP standing overflow tube.	No	3		
3/13/19	20mm Fullway brass gate valve	No	6		
	Carried Forward			R	
	Section No. 3 Building Works Bill No. 13 Plumbing and Drainage Dr Blok Secondary School				

Brought Forward			R
15mm "Ball-o-Stop" or other approved brass stopcock	No	4	
15mm "FJT 5.5" CP urinal tail pipe.	No	2	
22mm "131" Brass stopcock.	No	6	
15mm "139 star" CP underwall pattern stopcock.	No	2	
Cobra star or similar approved pillar tap (Code: FPTA2A1SR-0GT01 SKU 211-15/N)	No	4	
Cobra or similar approved Bib tap (Code: FBBAE1SR-0GT01)	No	4	
Cobra or similar approved elbow operated pillar tap (Code: FEAPLEA-4FT01)	No	1	
15mm "166/041" CP sink mixer.	No	2	
Urinal flushing valve.	No	2	
"Masterbox" valve set.	No	1	
<u>SANITARY PLUMBING:</u>			
<u>uPVC pipes:</u>			
50mm Pipes.	m	160	
110mm Pipes.	m	206	
<u>Extra over uPVC pipes for fittings:</u>			
50mm Access bend.	No	36	
50mm Junction	No	15	
50mm Access Junction	No	15	
110mm Access heel bend.	No	19	
110mm Vent valve.	No	12	
<u>WATER SUPPLIES:</u>			

	Brought Forward	R	
	<u>Class O copper pipes:</u>		
3/13/37	15mm Pipes.	m	96
3/13/38	22mm Pipes.	m	81
3/13/39	28mm Pipes.	m	151
	<u>Extra over class O copper pipes for capillary fittings:</u>		
3/13/40	15mm Fittings.	No	22
3/13/41	22mm Fittings.	No	7
3/13/42	28mm Fittings.	No	9
	<u>Copper overflow and service pipes:</u>		
3/13/43	15mm Service pipe 300mm girth.	No	4
3/13/44	22mm Service pipe 300mm girth.	No	7
	<u>TESTING</u>		
3/13/45	Provide all necessary apparatus water, etc for and test the whole of the Sanitary Plumbing and Water Supply installation to the satisfaction of the Representative/Agent and Municipality, replace any defective work, free of charge and leave perfect	Item	
	<u>BUILDER'S WORK INCLUDING MAKING GOOD:</u>		
3/13/46	Fair cutting and fitting facebrick around pipe not exceeding 100mm dianeter.	No	6
	<u>Core drilling of hole for pipe not exceeding 50mm diameter</u>		
3/13/47	230mm Brick wall, etc	No	20
	<u>PAINTING (PROVISIONAL)</u>		
	<u>(HAYLETT FORMULA WORK GROUP NO 152</u>		
	Carried Forward	R	
	Section No. 3 Building Works Bill No. 13 Plumbing and Drainage Dr Blok Secondary School		

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 14</u></p> <p><u>GLAZING</u></p> <p><u>PREAMBLES</u></p> <p><u>PREAMBLES:</u> The Tenderer is referred to the relevant Clause in the separate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.</p> <p>NOTE: Unless otherwise stated all the items in this bill shall be deemed to fall into Work Group No. 150 for Haylett Formula purposes.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Principal Agent.</p> <p><u>GLAZING TO STEEL WITH PUTTY</u></p> <p><u>4mm Clear laminated safety glass</u></p>			
3/14/1	Panes exceeding 0,1m ² and not exceeding 0,5m ²	m2	270	
	<u>3mm Obscure glass</u>			
3/14/2	Panes exceeding 0,1m ² but not ne 0.5m2	m2	112	
	<u>6mm Float glass with polished edges all round</u>			
3/14/3	Mirror 450 X 600mm high four times holed for and fixed to wall with chromium plated dome headed mirror screws (K9)	No	12	
	<p style="text-align: right;">Carried Forward to Summary of Section No. 3</p> <p>Section No. 3 Building Works Bill No. 14 Glazing Dr Blok Secondary School</p>		R	

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 15</u>			
	<u>PAINTWORK</u>			
	<u>PREAMBLES</u>			
	NOTE: The Tenderer is referred to the relevant Clause in the seperate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	NOTE: Unless otherwise stated all the items in this bill shall be deemed to fall into Work Group No. 152 for Haylett Formula purposes.			
	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>ON PLASTER, ETC.</u>			
	<u>One undercoat and two coats paint</u>			
3/15/1	On internal plastered walls m2	1 622		
	<u>ON PLASTER BOARD</u>			
	<u>One coat plaster primer and two coats EPL polvin super acrylic ON:</u>			
3/15/2	On ceilings and cornices m2	3 173		
	<u>ON METAL</u>			
	<u>Spot priming defects in pre primed surfaces with zinc chromate primer and applying one coat undercoat and two coats enamel paint on steel</u>			
3/15/3	On door frames m2	46		
3/15/4	Security gates, etc m2	22		
	<u>ON WOOD</u>			
	Carried Forward		R	
	Section No. 3 Building Works Bill No. 15 Paintwork Dr Blok Secondary School			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 1</u>			
	<u>SITE WORKS (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	NOTE: Unless otherwise stated all the items in this bill shall be deemed to fall into Work Group No. 104 for Haylett Formula purposes.			
	NOTE: The Tenderer is referred to the relevant Clause in the separate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.			
	NOTE: The foundations have measured to the top of the surface bed. Foundations depths shall be confirmed on site. All excavations shall not be covered prior to the approval and recording of the depths by the Engineer.			
	<u>EARTHWORKS</u>			
4/1/1	Clear site of all rubbish, debris, vegetation, etc	m2	1 560	
4/1/2	Stripping 150mm layer of top soil and cart to spoil heap on site	m3	54	
	<u>REMOVAL OF TREES ETC</u>			
4/1/3	Take out and remove tree with trunk exceeding 500mm and not exceeding 1000mm girth measured 1m above ground level including excavating and removing roots and fill hole with clean dry earth filling, watered and rammed	No	6	
	<u>BULK EXCAVATION, FILLING, ETC</u>			
	<u>Open face excavation in earth over sloping site</u>			
4/1/4	Open face excavations	m3	1 443	
	<u>Extra over bulk excavation in earth for excavation in</u>			
4/1/5	Soft rock (intermediate excavation)	m3	26	
4/1/6	Hard rock (hard excavation)	m3	14	
	Carried Forward		R	
	Section No. 4			
	External works			
	Bill No. 1			
	General Site Works			
	Dr Blok Secondary School			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u> <u>BILL NO. 2</u> <u>STORMWATER DRAINAGE, SOIL DRAINAGE AND WATER SUPPLY</u> <u>PREAMBLES</u> <p>NOTE: The Tenderer is referred to the relevant Clause in the separate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.</p> <p>NOTE : Unless otherwise stated herein all items in this bill shall be deemed to fall into Work Group No. 146 for Haylett Formula purposes</p> <p>NOTE : All excavations are measured as being in "earth" and/or filling compacted to 98% modified AASHTO density</p> <p>-----</p> <u>STORMWATER DRAINAGE</u> <u>CONCRETE</u> <u>(HAYLETT FORMULA WORK GROUP NO. 146)</u> <u>Mass concrete with a coarse aggregate of 19mm and a minimum compressive strength of 15MPa at 28 days</u>			
4/2/1	V-shaped channel 600mm wide x 100mm thick with rounded salient edges and finished on exposed surfaces with 2:1 cement mortar, laid to falls in panels not exceeding 1,8m long with 12mm bitumen impregnated softboard movement joints with exposed edges raked out for a depth of 10mm and filled with bituminous compound including all necessary excavations and formwork	m	354	
4/2/2	Extra for fair open end	No	16	
4/2/3	Extra for fair stopped end	No	12	
4/2/4	Extra for angle intersection	No	5	
	Carried Forward		R	
	Section No. 4 External works Bill No. 2 Stormwater, Soil drainage and Water Supply Dr Blok Secondary School			

	Brought Forward			R	
4/2/5	Extra for T-intersection	No	6		
4/2/6	Triangular shaped concrete spill basin size 1,1m at head, 2,4m at base end and 1,192m along the sides, formed of 200mm thick concrete base with concrete upstand size 200 x 200mm high along two sides and 200 x 200mm footing along base end including all excavations, formwork and backfilling, the top of the base inlaid with eleven clay bricks protruding 55mm above the surface of the concrete and loose stones of 100 to 150mm diameter loose at the base of the spill basin for a width of 500mm	No	2		
	<u>Movement joints</u>				
4/2/7	Movement joint not exceeding 300mm high formed of 12mm bitumen impregnated softboard placed vertical in position between concrete stormwater channel and brick walls or concrete aprons, etc including raking out top section 10mm deep and filling with bituminous compound	m	45		
	<u>SOIL DRAINAGE</u>				
	<u>(HAYLETT FORMULA WORK GROUP NO. 146)</u>				
	<u>uPVC pipes</u>				
4/2/8	110mm pipes including excavations not exceeding 1m deep	m	210		
4/2/9	110mm pipes including excavations exceeding 1m not exceeding 2m deep	m	96		
4/2/10	160mm pipes including excavations exceeding 1m not exceeding 2m deep	m	86		
4/2/11	160mm pipes including excavations exceeding 2m not exceeding 4m deep	m	165		
	<u>Extra over uPVC pipes for fittings</u>				
4/2/12	110mm Bend.	No	12		
4/2/13	110mm Access junction.	No	6		
4/2/14	160mm Access Junction	No	1		
	Carried Forward			R	
	Section No. 4 External works Bill No. 2 Stormwater, Soil drainage and Water Supply Dr Blok Secondary School				

	Brought Forward			R	
	<u>Sundries</u>				
4/2/15	15MPa/19mm mass concrete encasing around 100mm horizontal drain pipe including all necessary formwork	m	22		
4/2/16	15MPa/19mm mass concrete encasing around 100mm vertical or raking drain pipe to cleaning eye including all necessary formwork	m	14		
4/2/17	15MPa/19mm mass concrete in precast I.E. marker block set flush with the ground or paving	No	5		
	<u>THE FOLLOWING IN PRE-FABRICATED MANHOLES</u>				
	(HAYLETT FORMULA WORK GROUP NO. 146)				
	Pre-fabricated concrete manholes and shall constructed according to the Manufacturer's instructions. All manholes to be out of dolomitic aggregate				

	<u>Excavate in earth for and including circular type precast concrete manhole formed of 1,330m diameter x 100mm thick 20MPa/19mm mass concrete bottom with manhole shaft formed of 1,02m diameter (internal) precast concrete rings with joints sealed with non hardening waterproof such as DENSO sealing with and including precast concrete cover slab 125mm thick and precast concrete spacer slab with opening for and including heavy duty road type manhole cover and frame as type 4 set in cement mortar and sealed in tallow and with fine mass concrete benching in bottom floated smooth with falls to and including 617 mesh reinforcement and 150mm vitrified clay channels and finished on all exposed surfaces with 25mm thick granolithic with angles rounded including all necessary step irons, etc.</u>				
4/2/18	Manhole not exceeding 1m deep	No	4		
4/2/19	Manhole exceeding 1m and not exceeding 2m deep	No	4		
4/2/20	Manhole exceeding 2m and not exceeding 4m deep	No	4		
	Carried Forward			R	
	Section No. 4 External works Bill No. 2 Stormwater, Soil drainage and Water Supply Dr Blok Secondary School				

		Brought Forward		R	
	<u>Sundries</u>				
4/2/21	Hole through side of precast concrete manhole for pipe exceeding 100mm and not exceeding 200mm diameter and make good	No	4		
	<u>WATER SUPPLY</u>				
	(HAYLETT FORMULA WORK GROUP NO. 148)				
	<u>Galvanised mild steel screwed and socketed pipes and fittings</u>				
4/2/22	20mm pipe in short lengths in connections to water meter (elsewhere)	m	25		
4/2/23	20mm pipe and excavations not exceeding 1m deep	m	34		
4/2/24	25mm pipe and excavations not exceeding 1m deep	m	14		
4/2/25	Extra over 20mm pipe for fittings	No	12		
4/2/26	Extra over 25mm pipe for fittings	No	14		
	<u>uPVC 75mm Class 6 piping with "Plasson" or other approved fittings</u>				
4/2/27	75mm pipe and excavations not exceeding 1m deep	m	87		
	<u>uPVC 75mm Class 9 piping with "Plasson" or other approved fittings</u>				
4/2/28	75mm pipe and excavations not exceeding 1m deep	m	37		
	<u>Extra over polyethylene pipes for fittings</u>				
4/2/29	75mm diameter bend	No	14		
4/2/30	63mm male adaptor coupling	No	12		
	<u>Valves, etc including joints to pipes and/or fittings</u>				
4/2/31	25mm brass fullway wheel valve	No	6		
4/2/32	63mm brass fullway wheel valve	No	6		
	Carried Forward			R	
	Section No. 4 External works Bill No. 2 Stormwater, Soil drainage and Water Supply Dr Blok Secondary School				

	Brought Forward			R	
4/2/33	Castle Optima 2000 or other approved water meter with threaded inlet port	No	1		
	SUNDRIES				
	(HAYLETT FORMULA WORK GROUP NO. 148)				
4/2/34	Excavate in earth for and build stop cock box size 225 x 225 x 600mm deep internally with half brick sides in cement mortar with 225 x 225mm regulation pattern cast iron hinged box Type 11B set in and including 15MPa/19mm mass concrete surround size 75mm wide x 100mm deep all round	No	1		
4/2/35	Excavate in earth not exceeding 1m deep for and build circular type precast concrete valve and meter chamber formed of 1,05m diameter (internal) precast concrete rings with and including precast concrete cover slab 125mm thick and precast concrete spacer slab with opening for and pavement type manhole cover and frame as type 4 set in cement mortar and sealed in tallow and with fine mass concrete filling in bottom floated smooth with falls and finished on all exposed surfaces with 25mm thick granolithic with angles rounded including all necessary step irons, etc	No	1		
4/2/36	Extra over excavations in earth for pipe trenches, etc for excavations in soft rock	m3	1		
4/2/37	Extra over excavations in earth for pipe trenches, etc for excavations in hard rock	m3	1		
4/2/38	15MPa/19mm mass concrete in thrust blocks around fittings including necessary additional excavations, formwork, etc	m3	1		
	Carried Forward			R	
	Section No. 4				
	External works				
	Bill No. 2				
	Stormwater, Soil drainage and Water Supply				
	Dr Blok Secondary School				

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		Brought Forward			R	
		<u>Earth filling obtained from the excavations</u>				
4/3/7	Backfilling to trenches and holes compacted to 90% modified AASHTO density	m3	153			
	<u>Approved non - expansive imported inert granular filling under solid floors, supplied and carted on by Contractor, compacted in layers not exceeding 150 mm to 93% HCE density</u>					
4/3/8	Under floors, steps, pavings, etc	m3	298			
	<u>Compaction of surfaces</u>					
4/3/9	Compaction of ground surface under floors, trenches, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m2	464			
	<u>Soil insecticide</u>					
4/3/10	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	464			
4/3/11	To bottoms and sides of trenches, bases, etc	m2	714			
	<u>Coarse river sand filling supplied by the contractor</u>					
4/3/12	50mm thick river sand under floors, etc.	m2	464			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>					
	<u>REINFORCED CONCRETE</u>					
	<u>25MPa/19mm concrete</u>					
4/3/13	In strip footings	m3	41			
4/3/14	Surface beds on waterproofing cast in panels	m3	25			
	<u>TEST BLOCKS</u>					
4/3/15	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	50			
	Carried Forward				R	
	Section No. 4 External works Bill No. 3 Walkways and Yardwalls Dr Blok Secondary School					

		Brought Forward			R	
		<u>CONCRETE SUNDRIES</u>				
		<u>Finishing top surfaces of concrete smooth with a wood float</u>				
4/3/16	Surface beds, slabs, etc	m2	750			
		<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>				
		<u>Smooth formwork to sides</u>				
4/3/17	Edges of slabs not exceeding 300mm high	m2	252			
		<u>MOVEMENT JOINTS ETC (PROVISIONAL)</u>				
4/3/18	10mm Isolation Joints not exceeding 300mm high	m	346			
4/3/19	10 x 12mm polysulphide sealant	m	334			
		<u>REINFORCEMENT (PROVISIONAL)</u>				
4/3/20	Mesh - Ref 245 to surface bed	m2	300			
		<u>MASONRY</u>				
		<u>FOUNDATIONS (PROVISIONAL)</u>				
		<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class 1 mortar</u>				
4/3/21	One brick walls	m2	257			
		<u>FACE BRICKWORK</u>				
		<u>External facing (PC R6500,00/1000 excluding VAT) pointed with square recessed horizontal and vertical joints</u>				
4/3/22	Extra over brickwork for face brickwork	m2	419			
4/3/23	Brick on edge on coping to one brickwall.	m	350			
		<u>Brickwork reinforcement</u>				
4/3/24	150mm Wide reinforcement built in horizontally	m	1 230			
		Carried Forward			R	
	Section No. 4					
	External works					
	Bill No. 3					
	Walkways and Yardwalls					
	Dr Blok Secondary School					

		Brought Forward		R	
		<u>WATERPROOFING</u>			
		<u>WATERPROOFING UNDER FLOORS, ETC</u>			
		<u>Colour coded polythylene sheeting complying with SABS 952, Type C, in wiseset practicable widths with all joints lapped and sealed in accordance with the manufacture's instructions</u>			
4/3/25	250 Micron green medium density sheeting laid loose on top of compacted earth under concrete surface beds, lapped 150 mm and sealed at all joints with pressure sensitive tape (measured net).	m2	656		
	<u>ROOF COVERINGS, ETC.:</u>				
	<u>"COLOURED ROOF SHEETING OR SIMILAR AND APPROVED</u>				
	<u>Supplementary Preambles:</u>				
	Notes :				
	The following roof sheeting systems are to be installed in strict accordance with the Manufacturer's and/or Supplier's specifications.				
	Fixing of all roof sheeting is to be in accordance with the Manufacturer's approved Instruction Book.				
	The Manufacturer shall comply with ISO9002 Quality Management System.				
	A written and approved five year guarantee of site-workmanship and watertightness shall be issued after final inspection of concealed-fix roofing by the Manufacturer				
	<u>0,6mm Thick Light Industrial "Colomate" IBR profile steel roof sheeting pre painted fixed to timber purlins at approximately 750mm centres according to engineers detail</u>				
4/3/26	Roof covering with pitch not exceeding 25 degrees, fixed to metal purlins.	m2	450		
	Carried Forward			R	
	Section No. 4 External works Bill No. 3 Walkways and Yardwalls Dr Blok Secondary School				

	Brought Forward		R		
4/3/27	1,2mm thick Ridge Capping <u>STRUCTURAL STEELWORK</u> <u>The following in hot dipped galvanized steel structure to walkways</u>	m	288		
4/3/28	75 x 75 x 3mm wall thickness hollow section columns, mitred at angles and fitted with 150 x 150 x 3mm footplates	m	362.00		
4/3/29	60 x 40 x 2,5mm Hollow section purlin bolted to brackets <u>PAINTWORK</u> <u>PAINTWORK ETC TO NEW WORK</u> <u>ON METAL</u> <u>One coat Plascon Namelcote Synthetic Metal Primer (UC53), one undercoat and two finishing coats 'Plascon Wall and All pure acrylic emulsion paint</u>	m	300.00		
4/3/30	On steel purlins, beams and columns, etc	m ²	356		
				R	
Carried Forward to Summary of Section No. 4					
Section No. 4 External works Bill No. 3 Walkways and Yardwalls Dr Blok Secondary School					

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 1</u>			
	<u>PROVISIONAL SUMS</u>			
	<u>PREAMBLES</u>			
	<u>For Preambles see "Model Preambles For Trades"</u>			
	<u>PREAMBLES:</u> The Tenderer is referred to the relevant Clause in the separate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.			
	<u>WORK BY CONTRACTOR</u>			
	BUDGETARY ALLOWANCES under this heading are for work to be executed by the contractor or a specialist sub-contractor and are to be used at the discretion of the Principal Agent and deducted in whole or in part if not required.			
	<u>The following Provisional Sums and Prime Cost Items are net</u>			
	<u>The Contractor shall allow for profit and attendance after each Prime Cost Sum. Where no allowance has been made by the Contractor, it shall be assumed the allowance shall have been included elsewhere in the rates for other works.</u>			
	<u>DEMOLITION OF ASBESTOS</u>			
5/1/1	Provide the sum as indicated for demolition of asbestos to be supplied by specialist including the foundations and filling material	Item		2 500 000 00
5/1/2	Allow for profit.	Item		
5/1/3	Allow for attendance.	Item		
	<u>BOREHOLE DRILLING</u>			
5/1/4	Provide the sum as indicated for borehole drilling	Item		177 500 00
5/1/5	Allow for profit.	Item		
5/1/6	Allow for attendance.	Item		
	Carried Forward		R	
	Section No. 5 Provisional sums Bill No. 1 Provisional and Prime Cost Sums Dr Blok Secondary School			

Brought Forward			R		
<u>25 000 L PRESTANK & STAND</u>					
5/1/7	Provide the sum as indicated for a prestank including tank stand with a hot dipp galvanised stand, cat ladder and safety barriers	Item		195 000	00
5/1/8	Allow for profit.	Item			
5/1/9	Allow for attendance.	Item			
<u>GEOPHYSICAL</u>					
5/1/10	Provide the sum as indicated for geophysical	Item		60 000	00
5/1/11	Allow for profit.	Item			
5/1/12	Allow for attendance.	Item			
<u>MECHANICAL WORKS (TO BE DONE BY A NOMINATED SUB-CONTRACTOR)</u>					
5/1/13	Allow the sum as indicated for mechanical works	Item		1 100 000	00
5/1/14	Allow for profit	Item			
5/1/15	Allow for attendance	Item			
<u>LANDSCAPING (TO BE DONE BY A NOMINATED SUB-CONTRACTOR)</u>					
5/1/16	Allow the sum as indicated for landscaping	Item		300 000	00
5/1/17	Allow for profit	Item			
5/1/18	Allow for attendance	Item			
<u>MOBILE CLASSROOMS (TO BE DONE BY A NOMINATED SUB-CONTRACTOR)</u>					
5/1/19	Provide the sum as indicated for fifty eight (58) mobile classrooms to be supplied and installed by a firm of specialists to be nominated by the Principal Agent	Item		11 000 000	00
5/1/20	Allow for profit.	Item			
5/1/21	Allow for attendance.	Item			
Carried Forward			R		
Section No. 5 Provisional sums Bill No. 1 Provisional and Prime Cost Sums Dr Blok Secondary School					

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Section No		Page No	Amount
1	Preliminaries	-44-	
2	Alterations (Provisional)	-46-	
3	Building Works	-97-	
4	External works	-111-	
5	Provisional sums	-114-	
SUB-TOTAL (Excluding CPAP and Value Added Tax)		R	
PART B: ELECTRICAL WORKS (SEE SEPARATE DOCUMENT)		Item	
Allow the sum of R4 000.00 (Four Thousand Rand) per month for Community Liaison Officer		R	96 000 00
Allow the sum of R2 000.00 (Two Thousand Rand) per month for Project Steering Committee (PSC)		R	48 000 00
Allow the sum of R 350 000.00 (Three Hundred And Fifty Thousand Rands) for Contract Price Adjustment Provision (CPAP)		R	350 000 00
Allow the sum of R 1 000 000.00 (One Million Rands) for Contingencies		R	1 000 000 00
SUB-TOTAL excluding Value Added Tax (VAT)		R	
ADD: Value Added Tax (VAT) calculated at the rate of 15%		R	
Carried to Form of Tender		R	
Dr Blok Secondary School			