

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No		Quantity	Rate	Amount	
	<p><b><u>SECTION 1</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>PRELIMINARIES</u></b></p> <p><b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b></p> <p>The <b>JBCC</b> Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The <b>JBCC</b> Principal Building Agreement <b>contract data</b> form an integral part of this <b>agreement</b></p> <p>The <b>JBCC</b> General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the <b>JBCC</b> Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these <b>bills of quantities</b>, amended as hereinafter described</p> <p>The <b>contractor</b> is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause</p> <p>The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only</p> <p>Where any item is not relevant to this <b>agreement</b> such item is marked N/A signifying "not applicable"</p> <p>Where standard clauses or alternatives are not entirely applicable to this <b>agreement</b> such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the abovementioned documents</p>				
	<b>Carried to Collection</b>		R		
	Bill No. 1 PRELIMINARIES				

<p><b><u>PREAMBLES FOR TRADES</u></b></p>	<p>The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these <b>bills of quantities</b> and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p>	<p>Supplementary preambles and/or specifications are incorporated in these <b>bills of quantities</b> to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles</p>	<p>The <b>contractor's</b> prices for all items throughout these <b>bills of quantities</b> shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications</p>	<p><b><u>STRUCTURE OF THIS PRELIMINARIES BILL</u></b></p>	<p>Section A : A recital of the headings of the individual clauses in the aforementioned <b>JBCC</b> Principal Building Agreement</p>	<p>Section B : A recital of the headings of the individual clauses in the aforementioned <b>JBCC</b> General Preliminaries</p>	<p>Section C : Any special clauses to meet the particular circumstances of the project</p>	<p><b><u>PRICING OF PRELIMINARIES</u></b></p>	<p>Should the <b>contractor</b> select Option A in the <b>contract data</b> for the adjustment of <b>preliminaries</b>, the amounts entered against the relevant items in these <b>preliminaries</b> are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)</p>	<p><b><u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u></b></p>	<p><b>Carried to Collection</b></p>	<p>R</p>	<p>Bill No. 1 PRELIMINARIES</p>
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**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

1/1/1	<p><b><u>Interpretation (A1-A7)</u></b></p> <p>Clause 1.0 - Definitions and interpretation</p> <p><b>Pricing of bills of quantities</b></p> <p>The <b>contractor</b> 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 (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this <b>agreement</b>. Value Added Tax (VAT) is to be separately stated on the summary page of these <b>bills of quantities</b></p> <p>Items left unpriced will be deemed to be covered in prices against other items throughout these <b>bills of quantities</b> and no claim for any extras arising out of the <b>contractor's</b> omission to price any item will be entertained</p> <p>Prices for all <b>construction equipment</b>, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary</p> <p><b>Abbreviated descriptions</b></p> <p>The items in these <b>bills of quantities</b> utilise abbreviated descriptions. It is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. However, should the full intent and meaning of any description not be clear, the <b>contractor</b> shall, before submission of his tender, call for a written directive from the <b>principal agent</b>, failing which it shall be assumed that the <b>contractor</b> has allowed in his pricing for materials and workmanship in terms of international best practice</p> <p><b>Legal status of contractor</b></p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Bill No. 1 PRELIMINARIES</p>			
			R	

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

<p>If the <b>contractor</b> constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then:</p> <ol style="list-style-type: none"> <li>1. These persons are deemed to be jointly and severally liable to the <b>employer</b> for the performance of this <b>agreement</b></li> <li>2. These persons shall notify the <b>employer</b> of their leader who has assigned authority to bind the <b>contractor</b> and each of these persons</li> <li>3. The <b>contractor</b> shall not alter its composition or legal status without the prior written consent of the <b>employer</b></li> </ol> <p><b>Clause 1.1:</b> Replace the following definitions in <b>DEFINITIONS AND INTERPRETATIONS</b> with the following wording: <b>AGREEMENT</b> means the agreement arising from the signing of the Form of Offer and Acceptance by the parties. <b>BILLS OF QUANTITIES</b> means the document drawn up in accordance with the Pricing Instructions contained in the Pricing Data. <b>CONSTRUCTION PERIOD</b> means the period commencing on the date of site hand over and ending on the date of practical completion. <b>CONTRACT DOCUMENTS</b> means the Agreement and all documents referenced therein. <b>CONTRACT DRAWINGS</b> means the drawings listed in the Scope of Work. <b>CONTRACT SUM</b> means the total of prices in the Form of Offer and Acceptance. <b>SCHEDULE</b> means the variables listed in the Contract Data. <b>CORRUPT PRACTICE</b> means the offering, giving, receiving and soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution. <b>FRAUDULENT PRACTICE</b> means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer, and includes collusive practice among tenderers (prior to or after the tender submission) designed to establish</p>				
<b>Carried to Collection</b>		R		
<p>Bill No. 1 PRELIMINARIES</p>				

**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

<p>tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition.</p> <p><b>INTEREST</b> means the interest rates applicable to this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999).</p> <p><b>SECURITY</b> means the form of security provided by the <b>employer or contractor</b>, as stated in the <b>schedule</b>, from which the <b>contractor or employer</b> may recover expense or loss.</p> <p>Clause 1.1 Definition of "Commencement Date" is added:</p> <p>"COMMENCEMENT DATE" means the date that the agreement, made in terms of the Form of Offer and Acceptance, comes into effect.</p> <p>Clause 1.1 Definition of "Guarantee for Construction" is amended by replacing it with the following:</p> <p>"GUARANTEE FOR CONSTRUCTION" means a guarantee at call obtained by the contractor from an institution approved by the employer in terms of the employer's construction guarantee form as selected in the schedule.</p> <p>Clause 1.1 Definition of "Principal Agent" is amended by replacing it with the following:</p> <p>"PRINCIPAL AGENT" means the person or entity appointed by the employer and named in the schedule. In the event of a principal agent not being appointed, then all the duties and obligations of a principal agent as detailed in the agreement shall be fulfilled by a representative of the employer as named in the schedule.</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p>1/1/2 Clause 2.0 - <b>Law</b>, regulations and <b>notices</b></p> <p>F:..... V:..... T:.....</p>	<p>Item</p>		
<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Bill No. 1 PRELIMINARIES</p>		<p>R</p>	

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

1/1/3	<p>Clause 3.0 - Offer and acceptance</p> <p>F:..... V:..... T:.....</p>	Item			
1/1/4	<p>Clause 4.0 - Cession and assignment</p> <p>F:..... V:..... T:.....</p>	Item			
1/1/5	<p>Clause 5.0 - Documents</p> <p><b>Value Added Tax</b></p> <p>Provision is made in the summary page of these <b>bills of quantities</b> for the inclusion of Value Added Tax (VAT)</p> <p>Clause 5.0 is amended by the addition of the following sub-clause 5.7:</p> <p>The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access at all times.</p> <p>F:..... V:..... T:.....</p>	Item			
1/1/6	<p>Clause 6.0 - <b>Employer's agents</b></p> <p><b>Delegated authority</b></p> <p>The authority of the <b>principal agent</b> to issue <b>contract instructions</b> [17.1] and perform duties for specific aspects of the <b>works</b> is delegated to <b>agents</b> as follows [6.2]. This does not preclude the <b>principal agent</b> from issuing such <b>contract instructions: To be confirmed on appointment.</b></p> <p>1. <u>Architect</u></p> <p>1.1 Duties [6.2] :</p> <p>The architect is responsible for the architectural design, functional design and quality inspection of the <b>works</b></p>				
	<b>Carried to Collection</b>			R	
	Bill No. 1 PRELIMINARIES				

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

2. <u>Quantity surveyor</u>				
2.1 Duties [6.2] :				
The quantity surveyor is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions of the <b>works</b>				
3. <u>Civil and structural engineer</u>				
3.1 Duties [6.2] :				
The civil and structural engineer is responsible for all aspects of civil and structural engineering design and quality inspection of the <b>works</b>				
4. <u>Mechanical engineer</u>				
4.1 Duties [6.2] :				
The mechanical engineer is responsible for all aspects of mechanical engineering design and quality inspection of the <b>works</b> and, where appointed by the <b>employer</b> for quantity surveying services in respect of the mechanical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions				
5. <u>Electrical engineer</u>				
5.1 Duties [6.2] :				
The electrical engineer is responsible for all aspects of electrical engineering design and quality inspection of the <b>works</b> and, where appointed by the <b>employer</b> for quantity surveying services in respect of the electrical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions				
8. <u>Health and safety consultant</u>				
<b>Carried to Collection</b>			R	
Bill No. 1 PRELIMINARIES				

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

1/1/7	<p>8.1 Duties [6.2] :</p> <p>The health and safety consultant is responsible for all aspects of health and safety of the <b>works</b>. 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 <b>works</b>. He shall:</p> <p>8.1.1 Act as the <b>employer's agent</b> in terms of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended</p> <p>8.1.2 Prepare and update the health and safety specification for the <b>works</b></p> <p>8.1.3 Agree with the <b>contractor</b> the health and safety plan for the <b>works</b></p> <p>8.1.4 Carry out regular audits to ensure adherence to the safety plan and compliance with the act and regulations</p> <p>8.1.5 Stop the execution of the <b>works</b> where the agreed specification or plan is not adhered to.</p> <p>F:..... V:..... T:.....</p> <p>Clause 7.0 - <b>Design responsibility</b></p> <p>Clause 7.0 is deemed to be amended by adding the following new sub-clause 7.4: The Contractor shall promptly inform the Principal Agent of any patent defects or errors in any design. In identifying any patent defects or errors the Contractor shall use its best endeavours.</p> <p>F:..... V:..... T:.....</p> <p><b><u>Insurances and securities (A8-A11)</u></b></p> <p>Clause 8.0 - <b>Works risk</b></p>	Item			
1/1/8	<p><b><u>Insurances and securities (A8-A11)</u></b></p> <p>Clause 8.0 - <b>Works risk</b></p>	Item			
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Bill No. 1 PRELIMINARIES</p>		R		



**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

	<p>Clause 8.0 is deemed to be amended by the addition of the new clause 8.8 and 8.9: 8.8 Unless specifically stated to the contrary, where trade names have been used in the tender documents to specify materials and goods, this has been done with the sole purpose of indicating the standard and quality required by the principal agent. The contractor shall be free to supply those of other manufacturers or suppliers provided that they match the standard and quality required. The onus shall be on the contractor to prove that the materials and goods supplied by him are of similar standard and quality to those specified.</p> <p>8.9 The risks for loss or damage to the works resulting from such materials and goods and for latent defects in such materials and goods shall be that of the contractor, whether the materials and goods as specified or otherwise are supplied. Where it is specifically stated that no other trade name will be acceptable then the above-mentioned risks will remain with the employer.</p> <p>F:..... V:..... T:.....</p>				
1/1/9	<p>Clause 9.0 - Indemnities</p> <p>F:..... V:..... T:.....</p>	Item			
1/1/10	<p>Clause 10.0 - <b>Insurances</b></p> <p>Clause 10.0 is amended by the addition of the following clauses:</p> <p>10.11 Damage to the Works</p> <p>(a) Without in any way limiting the contractor's obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary.</p> <p>(b) The contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore,</p>	Item			
	<b>Carried to Collection</b>			R	
	<p>Bill No. 1 PRELIMINARIES</p>				

**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

<p>replace and/or repair the works.</p> <p>(c) Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the costs of such reinstatement shall be measured and valued in terms of clause 25.0 hereof</p> <p>10.12 Injury to Persons or loss of or damage to Properties</p> <p>(a) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the works unless due to any act or negligence of any person for whose actions the employer is legally liable</p> <p>(b) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person, arising out of or in the course of or by reason of the execution of the works unless due to any act or negligence of any person for whose actions the employer is legally liable</p> <p>(c) The contractor shall, upon receiving a contract instruction from the principal agent, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the employer shall be entitled to cause it to be made good and to recover the cost thereof from the contractor or to deduct the same from amounts due to the contractor</p> <p>(d) The contractor shall be responsible for the protection and safety of such portions of the premises placed under his control by the employer for the purpose of executing the works until the issue of the certificate of practical completion</p> <p>(e) Where the execution of the works involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the contractor shall obtain adequate insurance and will remain adequately insured</p>				
<p align="center"><b>Carried to Collection</b></p> <p>Bill No. 1 PRELIMINARIES</p>		<p align="center">R</p>		

**SSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

	or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the works has been completed (f) The contractor shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the works				
	10.13 It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.11 and 10.12. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty-one (21) calendar days of the commencement date but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so				
	F:..... V:..... T:.....	Item			
1/1/11	Clause 11.0 - <b>Securities</b>				
	<b>Extension of waiver of lien</b>				
	The <b>contractor</b> shall ensure that a waiver of lien is included in all subcontracts and that the <b>works</b> executed on the <b>site</b> are kept free of all liens and other encumbrances at all times [11.10]				
	Clause 11.5 is amended by replacing it with the following: No clause				
	F:..... V:..... T:.....	Item			
	<b><u>Execution (A12 - A17)</u></b>				
1/1/12	Clause 12.0 - Obligations of the <b>parties</b>				
	<b>Carried to Collection</b>		R		
	Bill No. 1 <b>PRELIMINARIES</b>				

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

<p><b>Office accommodation</b></p> <p>The <b>contractor</b> shall provide, maintain and remove on <b>practical completion</b> air conditioned office accommodation with suitable tables and chairs for meetings to be held on the <b>site</b>. Such offices shall be kept clean and fit for use at all times [12.2.18]</p> <p><b>Notice board</b></p> <p>The <b>contractor</b> shall erect in a position approved by the <b>principal agent</b>, maintain and remove on <b>practical completion</b> a notice board recommended by the South African Institute of Architects and as approved by the <b>principal agent</b> listing the names and logos of the <b>employer</b>, the <b>contractor</b> and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the <b>principal agent</b> for such notice boards to be erected [12.2.18]</p> <p><b>Statutory and other notices</b></p> <p>The <b>contractor</b> shall submit and/or comply with all statutory and other notices that may be required by any local or other authority in order not to cause any delay to the commencement of the <b>works</b> by the <b>contractor</b>. The <b>contractor</b> shall pay all deposits or fees in this regard</p> <p>It is, however, specifically recorded that the <b>employer</b> shall be responsible for the timeous approval of building plans by any local or other authorities and the payment of any fees or charges related thereto</p> <p>Clause 12.1.1 is amended by replacing it with the following: No clause</p> <p>Clause 12.2.2 is amended by replacing it with the following: No clause</p> <p>F:..... V:..... T:.....</p>	Item																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

1/1/13	<p>Clause 13.0 - Setting out</p> <p>F:..... V:..... T:.....</p>	Item			
1/1/14	<p>Clause 14.0 - Nominated <b>subcontractors</b></p> <p>Clause 14.1.5 is amended by replacing it with the following: No clause</p> <p>F:..... V:..... T:.....</p>	Item			
1/1/15	<p>Clause 15.0 - Selected <b>subcontractors</b></p> <p>F:..... V:..... T:.....</p>	Item			
1/1/16	<p>Clause 16.0 - <b>Direct contractors</b></p> <p><b>Not Applicable</b></p> <p>F:..... V:..... T:.....</p>	Item			
1/1/17	<p>Clause 17.0 - <b>Contract instructions</b></p> <p><b>Site instructions</b></p> <p>Instructions issued on <b>site</b> are to be recorded in a site instruction book (triplicate book) which is to be supplied and maintained on <b>site</b> by the <b>contractor</b>.</p> <p>F:..... V:..... T:.....</p> <p><b><u>Completion (A18 - A24)</u></b></p>	Item			
1/1/18	<p>Clause 18.0 - Interim completion</p> <p>Not Applicable</p>	N/A			
1/1/19	<p>Clause 19.0 - <b>Practical completion</b></p> <p>F:..... V:..... T:.....</p>	Item			
<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Bill No. 1 PRELIMINARIES</p>			R		

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

1/1/20	<p>Clause 20.0 - Completion in <b>sections</b></p> <p>Not Applicable</p> <p>F:..... V:..... T:.....</p>	Item			
1/1/21	<p>Clause 21.0 - <b>Defects</b> liability period and <b>final completion</b></p> <p>F:..... V:..... T:.....</p>	Item			
1/1/22	<p>Clause 22.0 - <b>Latent defects</b> liability period</p> <p>F:..... V:..... T:.....</p>	Item			
1/1/23	<p>Clause 23.0 - Revision of the date for <b>practical completion</b></p> <p><b>Substitution of materials and goods</b></p> <p>The removal or substitution of any <b>materials and goods</b> which do not conform to the specification or the <b>contract drawings</b> shall not constitute grounds for the extension of the <b>construction period</b> nor for the adjustment of the <b>contract value</b> [17.1.8; 23.1 &amp; 2]</p> <p>Clause 23.1.1 is amended by adding the following "It shall be deemed that the programme includes an allowance of twenty (20) working days for inclement and exceptionally inclement weather and an extension of time shall only be considered for inclement weather beyond the twenty (20) working day period."</p> <p>F:..... V:..... T:.....</p>	Item			
1/1/24	<p>Clause 24.0 - <b>Penalty</b> for late or non-completion</p> <p>The penalty amount per calendar day is 1.75 cents per R100.00 of the contract value.</p> <p>F:..... V:..... T:.....</p>	Item			
<b>Carried to Collection</b>			R		
Bill No. 1 PRELIMINARIES					

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

<p>1/1/25</p>	<p><b><u>Payment (A25 - A27)</u></b></p> <p>Clause 25.0 - Payment</p> <p><b>Prices submitted</b></p> <p>Where prices are submitted by the <b>contractor</b> or <b>subcontractor</b> during the progress of the <b>works</b> in respect of <b>contract instructions</b> or in regard to a claim under the terms of this <b>agreement</b> and notwithstanding the fact that such prices may be used in an interim <b>payment certificate</b>, there is to be no presumption of acceptance. Should the <b>principal agent</b> wish to accept any such prices prior to the issue of the <b>certificate of final completion</b>, it shall be in writing</p> <p>Clause 25.10 is amended to <b>Thirty (30) Calendar days</b> instead of Fourteen (14) Calendar days</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>			
<p>1/1/26</p>	<p>Clause 26.0 - Adjustment of the <b>contract value</b> and <b>final account</b></p> <p><b>Fluctuations in costs</b></p> <p>All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the <b>contractor</b> [26.9.5]</p> <p><b>Cost of claims</b></p> <p>All costs incurred by the <b>contractor</b> in the preparation of claims shall be borne by the <b>contractor</b>. This provision shall not preclude an adjudicator or an arbitrator appointed in terms of this <b>agreement</b> [30.6 &amp; 7] from making a determination on costs</p> <p><b>Claims from subcontractors</b></p> <p>The <b>contractor</b> shall review, assess and adjudicate any claims received by him from any <b>subcontractor</b> and thereafter submit same to the <b>principal agent</b> with a recommendation in order to assist the <b>principal agent</b> in adjudicating the claim [26.6]</p>		<p>R</p>		
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Bill No. 1 PRELIMINARIES</p>				

**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

	F:..... V:..... T:.....	Item		
1/1/27	Clause 27.0 - Recovery of expense and/or loss  F:..... V:..... T:.....	Item		
	<b>Suspension and termination (A28 - A29)</b>			
1/1/28	Clause 28.0 - Suspension by the <b>contractor</b>  Clause 28.1.1 is amended by replacing it with the following: No clause  F:..... V:..... T:.....	Item		
1/1/29	Clause 29.0 - Termination			
	<b>Carried to Collection</b>		R	
	Bill No. 1 PRELIMINARIES			



**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

	<p><b>TERMINATION BY THE EMPLOYER</b></p> <p>Clause 29.1 is amended by the addition of the following clauses:</p> <p>29.1.4 refuses or neglects to comply strictly with any of the conditions of contract.</p> <p>29.1.5 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa.</p> <p>29.1.6 in the judgement of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.</p> <p><b>TERMINATION BY THE CONTRACTOR</b></p> <p>Clause 29.14.1 is deleted and is amended by the addition of the following clause: No clause</p> <p>Clause 29.0 is amended by the addition of the following clause:</p> <p>29.29 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever.</p> <p>F:..... V:..... T:.....</p> <p><b><u>Dispute resolution (A30)</u></b></p>				
1/1/30	<p>Clause 30.0 - Dispute resolution</p> <p>F:..... V:..... T:.....</p>	Item			
1/1/31	<p><b><u>Agreement</u></b></p> <p>The required information of the <b>parties</b> and the amount of the <b>contract sum</b> shall be inserted in the <b>agreement</b> for signature of the <b>agreement</b> by the <b>parties</b></p> <p>F:..... V:..... T:.....</p>	Item			
	<b>Carried to Collection</b>		R		
	Bill No. 1 PRELIMINARIES				

**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

1/1/32	<p><b><u>Contract data</u></b></p> <p><b>Tenderer's selections</b></p> <p>Before submission of his tender the <b>contractor</b> is to complete the tenderer's selections in the <b>contract data</b></p> <p>F:..... V:..... T:.....</p> <p><b><u>SECTION B: GENERAL PRELIMINARIES</u></b></p> <p><b><u>Definitions and interpretation (B1)</u></b></p>	Item			
1/1/33	<p>Clause 1.1 - Definitions</p> <p>F:..... V:..... T:.....</p>	Item			
1/1/34	<p>Clause 1.2 - Interpretation</p> <p>F:..... V:..... T:.....</p>	Item			
	<b><u>Documents (B2)</u></b>				
1/1/35	<p>Clause 2.1 - Checking of documents</p> <p>F:..... V:..... T:.....</p>	Item			
1/1/36	<p>Clause 2.2 - Provisional <b>bills of quantities</b></p> <p><b>No</b></p> <p>F:..... V:..... T:.....</p>	Item			
1/1/37	<p>Clause 2.3 - Availability of <b>construction information</b></p> <p><b>Yes</b></p> <p>F:..... V:..... T:.....</p>	Item			
	<b>Carried to Collection</b>		R		
	Bill No. 1 PRELIMINARIES				

SSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT

1/1/38	<p>Clause 2.4 - Ordering of <b>materials and goods</b></p> <p>F:..... V:..... T:.....</p> <p><b><u>Previous work and adjoining properties (B3)</u></b></p>	Item		
1/1/39	<p>Clause 3.1 - Previous work - dimensional accuracy</p> <p>Not Applicable</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/40	<p>Clause 3.2 - Previous work - <b>defects</b></p> <p>Not Applicable</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/41	<p>Clause 3.3 - Inspection of adjoining properties</p> <p>Neighbouring properties.</p> <p>F:..... V:..... T:.....</p> <p><b><u>The site (B4)</u></b></p>	Item		
1/1/42	<p>Clause 4.1 - Handover of <b>site</b> in stages</p> <p>Not Applicable</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/43	<p>Clause 4.2 - Enclosure of the <b>works</b></p> <p>F:..... V:..... T:.....</p>	Item		
1/1/44	<p>Clause 4.3 - Geotechnical and other investigations</p> <p>F:..... V:..... T:.....</p>	Item		
<p><b>Carried to Collection</b></p>			R	
<p>Bill No. 1 PRELIMINARIES</p>				

**SSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

1/1/45	<p>Clause 4.4 - Encroachments</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/46	<p>Clause 4.5 - Existing premises occupied</p> <p>Not Applicable</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/47	<p>Clause 4.6 - Services - known</p> <p>F:..... V:..... T:.....</p> <p><b><u>Management of contract (B5)</u></b></p>	Item		
1/1/48	<p>Clause 5.1 - Management of the <b>works</b></p> <p>F:..... V:..... T:.....</p>	Item		
1/1/49	<p>Clause 5.2 - Progress meetings</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/50	<p>Clause 5.3 - Technical meetings</p> <p>F:..... V:..... T:.....</p> <p><b><u>Samples, shop drawings and manufacturer's instructions (B6)</u></b></p>	Item		
1/1/51	<p>Clause 6.1 - Samples of materials</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/52	<p>Clause 6.2 - Workmanship samples</p> <p>F:..... V:..... T:.....</p>	Item		
<p><b>Carried to Collection</b></p>			R	
<p>Bill No. 1 PRELIMINARIES</p>				

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

1/1/53	<p>Clause 6.3 - Shop drawings</p> <p>F:..... V:..... T:.....</p>	Item			
1/1/54	<p>Clause 6.4 - Compliance with manufacturer's instructions</p> <p>F:..... V:..... T:.....</p> <p><b><u>Deposits and fees (B7)</u></b></p>	Item			
1/1/55	<p>Clause 7.1 - Deposits and fees</p> <p>F:..... V:..... T:.....</p> <p><b><u>Temporary services (B8)</u></b></p>	Item			
1/1/56	<p>Clause 8.1 - Water</p> <p>By the Contractor</p> <p>F:..... V:..... T:.....</p>	Item			
1/1/57	<p>Clause 8.2 - Electricity</p> <p>By the Contractor</p> <p>F:..... V:..... T:.....</p>	Item			
1/1/58	<p>Clause 8.3 - Ablution and welfare facilities</p> <p>By the Contractor</p> <p>F:..... V:..... T:.....</p>	Item			
1/1/59	<p>Clause 8.4 - Communication facilities</p> <p>F:..... V:..... T:.....</p> <p><b><u>Prime cost amounts (B9)</u></b></p>	Item			
1/1/60	<p>Clause 9.1 - Responsibility for <b>prime cost amounts</b></p>				
	<b>Carried to Collection</b>			R	
	<p>Bill No. 1 PRELIMINARIES</p>				

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

	F:..... V:..... T:.....	Item		
	<b><u>Attendance on subcontractors (B10)</u></b>			
1/1/61	Clause 10.1 - General attendance  F:..... V:..... T:.....	Item		
1/1/62	Clause 10.2 - Special attendance  F:..... V:..... T:.....	Item		
	<b><u>General (B11)</u></b>			
1/1/63	Clause 11.1 - Protection of the <b>works</b>  F:..... V:..... T:.....	Item		
1/1/64	Clause 11.2 - Protection/isolation of existing <b>works</b> and <b>works</b> occupied in <b>sections</b>  <b>Not Applicable</b>  F:..... V:..... T:.....	Item		
1/1/65	Clause 11.3 - Security of the <b>works</b>  F:..... V:..... T:.....	Item		
1/1/66	Clause 11.4 - Notice before covering work  F:..... V:..... T:.....	Item		
1/1/67	Clause 11.5 - Disturbance			
	<b>Carried to Collection</b>		R	
	Bill No. 1 PRELIMINARIES			

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

	<p><b>Disturbance</b></p> <p>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 by 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 <b>construction period</b> or <b>contract value</b> whatsoever</p> <p>F:..... V:..... T:.....</p>				
1/1/68	<p>Clause 11.6 - Environmental disturbance</p> <p><b>Controlling all forms of pollution</b></p> <p>The <b>contractor</b> shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution emanating from the <b>site</b> during the <b>construction period</b> due inter alia to noise, artificial light, wind-blown sand, dust, deposits of mud, etc</p> <p>The <b>contractor</b> is to ensure that all roads which border the <b>site</b> and are used by the <b>contractor</b> during the execution of the <b>works</b> are kept clean and free of any dirt or debris caused by the execution of the <b>works</b></p> <p><b>Environmental management plan</b></p> <p>The <b>employer</b> has prepared an environmental management plan (EMP) (refer to Annexures for a copy of the relevant plan). The <b>contractor</b> shall price opposite this item for compliance with all the requirements of such EMP</p> <p>F:..... V:..... T:.....</p>	Item			
1/1/69	<p>Clause 11.7 - <b>Works</b> cleaning and clearing</p> <p>F:..... V:..... T:.....</p>	Item			
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Bill No. 1 PRELIMINARIES</p>		R		

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

1/1/70	<p>Clause 11.8 - Vermin</p> <p>F:..... V:..... T:.....</p>	Item			
1/1/71	<p>Clause 11.9 - Overhand work</p> <p>F:..... V:..... T:.....</p>	Item			
1/1/72	<p>Clause 11.10 - Tenant installations</p> <p>Not Applicable</p> <p>F:..... V:..... T:.....</p>	Item			
1/1/73	<p>Clause 11.11 - Advertising</p> <p>F:..... V:..... T:.....</p>	Item			
<b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b>					
1/1/74	<p>Warranties for materials and workmanship</p> <p>Where warranties for materials and/or workmanship are called for, the <b>contractor</b> shall obtain a written warranty, addressed to the <b>employer</b>, from the entity supplying the materials and/or executing the work and shall deliver same to the <b>principal agent</b> on <b>final completion</b> of the contract</p> <p>The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of <b>practical completion</b> and that any <b>defects</b> that may arise during the specified period shall be made good at the expense of the entity supplying the materials and/or doing the work, upon written <b>notice</b> to do so</p> <p>The warranty will not be enforced if the work is damaged by <b>defects</b> in the execution of the <b>works</b>, in which case the responsibility for replacement shall rest entirely with the <b>contractor</b></p> <p>F:..... V:..... T:.....</p>	Item			
<b>Carried to Collection</b>			R		
Bill No. 1 PRELIMINARIES					



**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

1/1/75	<p>Overtime</p> <p>Should overtime be required to be worked for any reason whatsoever, the cost of such overtime is to be borne by the <b>contractor</b> unless the <b>principal agent</b> has specifically authorised, prior to execution thereof, that costs for such overtime are to be borne by the <b>employer</b></p> <p>F:..... V:.....T:.....</p>	Item			
1/1/76	<p>Cooperation of the <b>contractor</b> for cost management</p> <p>It is specifically agreed that the <b>contractor</b> accepts the obligation of assisting the <b>principal agent</b> in implementing proper cost management. The <b>contractor</b> will be advised by the <b>principal agent</b> of all cost management procedures which will be implemented to ensure that the <b>contract value</b> does not exceed the budget</p> <p>F:..... V:.....T:.....</p>	Item			
1/1/77	<p>Overloading</p> <p>The <b>contractor</b> shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the <b>works</b> or temporary works eg scaffolding, etc. The <b>contractor</b> shall submit details of his proposed loading, storage, plant erection, etc to the <b>principal agent</b> for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the <b>principal agent's</b> requirements in connection with the provision of temporary support work, etc. Any damage caused to the <b>works</b> by overloading shall be made good by the <b>contractor</b> at his sole expense</p> <p>F:..... V:.....T:.....</p>	Item			
<b>Carried to Collection</b>				R	
<p>Bill No. 1 PRELIMINARIES</p>					

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

1/1/78	<p>Propping of floors below</p> <p>The <b>contractor</b> 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 <b>materials and goods</b> and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the <b>principal agent</b> and the cost thereof shall be borne by the <b>contractor</b></p> <p>F:..... V:..... T:.....</p>				
1/1/79	<p>Testing of flat roof waterproofing for watertightness</p> <p>Flat roof waterproof areas shall be flooded and kept "ponded" for at least forty eight (48) hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing</p> <p>F:..... V:..... T:.....</p>	Item			
1/1/80	<p>Health and safety</p> <p>Health and safety</p> <p>Without limiting the generality of the provisions of clause 2.0, the <b>contractor's</b> attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. It is specifically stated that the <b>employer</b> shall prepare a documented health and safety specification for the <b>works</b> (refer to Annexures for a copy of the relevant specification) and that the <b>employer</b> shall ensure that the <b>contractor</b> has made provision for the cost of health and safety measures during the execution of the <b>works</b>. The <b>contractor</b> shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification [2.1]</p>	Item			
<b>Carried to Collection</b>				R	
<p>Bill No. 1 PRELIMINARIES</p>					

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

1/1/81	<p>The <b>contractor</b> shall:</p> <ol style="list-style-type: none"> <li>1. Comply with the health and safety specification for the <b>works</b></li> <li>2. Prepare and agree with the health and safety consultant the health and safety plan for the <b>works</b></li> <li>3. Cooperate with the health and safety consultant in all respects</li> <li>4. Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification</li> <li>5. Conform to the conditions contained in the <b>employer's</b> health and safety specification</li> <li>6. Appoint a suitably qualified person to ensure health &amp; safety regulations are met</li> </ol> <p>F:..... V:..... T:.....</p> <p>Broad based black economic empowerment (BBBEE)</p> <p>Tenders submitted will be evaluated taking into account their empowerment rating</p> <p>The <b>employer</b> will be monitoring the broad based black economic empowerment (BBBEE) status of the <b>contractor</b> throughout the execution of the <b>works</b></p> <p>The <b>contractor</b> is to submit to the <b>principal agent</b> on an annual basis a schedule of spend, split into vendors engaged as <b>subcontractors</b> and suppliers indicating their BBBEE rating including proof of the said rating</p> <p>F:..... V:..... T:.....</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Bill No. 1 PRELIMINARIES</p>	Item			
		Item			
			R		

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

1/1/82	<p>Advertising rights</p> <p>The <b>employer</b> may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The <b>contractor</b> shall not prevent such an arrangement and will assist in the facilitation of same. The position and type of advertising structure to be agreed with the <b>principal agent</b> so as not to hinder the <b>contractor</b> in meeting his obligations under this <b>agreement</b></p> <p>F:..... V:..... T:.....</p>	Item			
1/1/83	<p>Confidentiality</p> <p>The <b>contractor</b> undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all <b>subcontractors</b> and suppliers. Such information shall not be used in any way except in connection with the execution of the <b>works</b></p> <p>No information regarding this project shall be published or disclosed without the prior written consent of the <b>employer</b></p> <p>F:..... V:..... T:.....</p>	Item			
1/1/84	<p>Media releases</p> <p>All rights of publication of articles in the media, together with any advertising relating thereto or in any way connected with this project, shall vest with the <b>employer</b></p> <p>The <b>contractor</b> together with his <b>subcontractors</b> shall not, without the prior written consent of the <b>employer</b>, cause any statement or advertisement connected with this project to be printed, screened or aired by the media</p> <p>F:..... V:..... T:.....</p>	Item			
<b>Carried to Collection</b>				R	
Bill No. 1 PRELIMINARIES					

**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No		Quantity	Rate	Amount	
	<p><b><u>SECTION NO 1</u></b></p> <p><b><u>BILL NO 1</u></b></p> <p><b><u>DEMOLITIONS</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>Demolish and remove existing external works services</u></b></p> <p><b><u>Demolishing and removing</u></b></p>				
2/1/1	<p>Single storey administration building complete with hip roof , approximate size 18.4m x 9.2m overall on plan and 2.8m high at eaves, comprising of concrete foundations, concrete surface bed, floor covering, external walls, internal walls, doors and windows and tile roof covering including timber roof trusses, completely executed as required</p>	No	1		
	<p style="text-align: right;"><b>Carried Forward to Summary of Section No. 2</b></p> <p>Bill No. 1 DEMOLITIONS</p>		R		



**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No		Quantity	Rate	Amount	
	<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO. 2</u></b></p> <p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Nature of ground</u></b></p> <p>A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured</p> <p><b><u>Carting away of excavated material</u></b></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><b><u>Filling</u></b></p> <p>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material</p>				
	<b>Carried to Collection</b>		R		
	Bill No. 2 EARTHWORKS				

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

<b><u>Excavations in conditions other than earth</u></b>					
Should the contractor consider that the excavation at any point are in "soft rock" or "hard rock", he must notify the Representative / Agent immediately in order that an inspection may be made and a decision arrived at by the Representative / Agent as to the category of such excavation. Should the contractor fail to give such notification, the excavation shall be deemed to be in earth and shall be valued accordingly					
<b><u>Subterranean water</u></b>					
The information on subterranean water is included in the soils investigation report and can be viewed at the Engineer's offices.					
<b><u>EXCAVATION, FILLING, ETC</u></b>					
<b><u>Excavation in earth or compacted filling not exceeding 2m deep</u></b>					
2/2/1	Trenches	m3	206		
2/2/2	Holes	m3	19		
<b><u>Extra over excavations in earth for excavation in:</u></b>					
2/2/3	Soft rock	m3	21		
2/2/4	Hard rock	m3	14		
<b><u>Extra over all excavations for carting away</u></b>					
2/2/5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	119		
<b><u>Risk of collapse of excavations</u></b>					
2/2/6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	854		
<b><u>Keeping excavations free of water</u></b>					
2/2/7	Keeping excavations free of water		Item		
<b><u>FILLING, ETC</u></b>					
<b>Carried to Collection</b>				R	
Bill No. 2 EARTHWORKS					

**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No	Quantity	Rate	Amount
<b><u>SECTION 2</u></b>			
<b><u>BILL NO. 3</u></b>			
<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
<b><u>PREAMBLES</u></b>			
The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Cost of tests:</u></b>			
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).			
<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
<b><u>15MPa /19mm Concrete in</u></b>			
2/3/1	Surface blinding under footings and bases	m3	1
<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
<b><u>30 MPa/19mm Concrete in</u></b>			
2/3/2	Foundations	m3	43
2/3/3	Bases	m3	6
<b>Carried to Collection</b>			R
Bill No. 3 CONCRETE, FORMWORK & REINFORCEMENT			

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

2/3/4	Surface beds on waterproofing	m3	81			
2/3/5	Apron slabs 75mm thick	m3	15			
	<b><u>REINFORCED CONCRETE</u></b>					
	<b><u>30 MPa/19mm Concrete in</u></b>					
2/3/6	Slabs including beams and inverted beams	m3	2			
2/3/7	Walls	m3	6			
	<b><u>TEST BLOCKS</u></b>					
	<b><u>Test blocks:</u></b>					
2/3/8	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes.	Sets	26.0			
	<b><u>FINISHING TOP SURFACE OF CONCRETE</u></b>					
	<b><u>Finishing top surfaces of concrete smooth with a steel trowel:</u></b>					
2/3/9	Apron slabs	m2	185			
2/3/10	Surface beds, slabs, etc.	m2	532			
	<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u></b>					
	<b><u>Rough Formwork to Sides:</u></b>					
2/3/11	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	175			
	<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY 1)</u></b>					
	<b><u>Smooth formwork to soffits</u></b>					
2/3/12	Slabs propped up exceeding 3,5m and not exceeding 5m high	m2	11			
	<b>Carried to Collection</b>				R	
	Bill No. 3 CONCRETE, FORMWORK & REINFORCEMENT					

**SSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

[illegible]

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

<p>Bill No. 3</p> <p>CONCRETE, FORMWORK &amp; REINFORCEMENT</p> <p><b><u>COLLECTION</u></b></p> <p>Total Brought Forward from Page No.</p> <p><b>Carried Forward to Summary of Section No. 2</b></p> <p>Bill No. 3</p> <p>CONCRETE, FORMWORK &amp; REINFORCEMENT</p>	<p><b>Page No</b></p> <p>37</p> <p>38</p> <p>39</p>	<p><b>Amount</b></p>	
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**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No		Quantity	Rate	Amount	
	<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO. 4</u></b></p> <p><b><u>MASONRY</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>BRICKWORK</u></b></p> <p><b><u>Sizes in descriptions</u></b></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><b><u>Face bricks</u></b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><b><u>Pointing</u></b></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p><b><u>Samples</u></b></p> <p>Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site</p> <p><b><u>FOUNDATIONS (PROVISIONAL)</u></b></p>				
	<b>Carried to Collection</b>		R		
	Bill No. 4 MASONRY				

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

	<b><u>Brickwork of NFX bricks (14 MPA nominal compressive strength) in class I mortar</u></b>				
2/4/1	Piers	m3	2		
2/4/2	One brick walls	m2	345		
	<b><u>SUPERSTRUCTURE</u></b>				
	<b><u>Brickwork in NFP clay bricks (7 Mpa nominal compressive strength) in Class II mortar</u></b>				
2/4/3	Piers	m3	6		
2/4/4	Half brick walls	m2	300		
2/4/5	Half brick walls in beamfilling	m2	62		
2/4/6	One brick walls	m2	508		
	<b><u>SUNDRIES</u></b>				
	<b><u>Brickwork reinforcement</u></b>				
2/4/7	75mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	1 312		
2/4/8	150mm Wide reinforcement built in horizontally	m	3 319		
	<b><u>Concrete prestressed fabricated lintels</u></b>				
2/4/9	110 x 75mm Lintels in lengths not exceeding 3m	m	100		
2/4/10	110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4.5m long	m	26		
2/4/11	150 x 75mm Lintels in lengths not exceeding 3m	m	19		
	<b><u>Turning pieces</u></b>				
2/4/12	220mm Wide turning piece to lintels etc	m	37		
	<b>Carried to Collection</b>			R	
	Bill No. 4 MASONRY				

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

	<b><u>Galvanised hoop iron cramps, ties, etc</u></b>				
2/4/13	38 x 1,6mm Galvanised hoop iron roof tie with one end built six courses deep into top of brickwork and other end wrapped around and nailed to trusses (Provisional)	No	183		
	<b><u>Air bricks</u></b>				
2/4/14	229x152mm Terracotta air bricks	No	10		
	<b><u>FACE BRICKWORK</u></b>				
	<b><u>Facebricks laid in stretcher bond manufactured in accordance with SANS 227:2007, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints</u></b>				
2/4/15	Extra over brickwork for face brickwork	m2	451		
2/4/16	Extra over brickwork for face brickwork in beamfilling	m2	62		
2/4/17	Extra over brickwork for face brickwork in foundations (Provisional)	m2	66		
2/4/18	Extra over brickwork for 300 x 300mm Piers pointed all sides	m2	66		
2/4/19	One brick wall faced both sides	m2	22		
2/4/20	Fair raking cutting	m	95		
2/4/21	Fair splay cutting	m	95		
2/4/22	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	7		
2/4/23	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	7		
	<b><u>Brick-on-edge header course copings, sills, etc approved face bricks pointed with recessed joints on all exposed faces</u></b>				
2/4/24	Coping on top of one brick wall	m	94		
	<b>Carried to Collection</b>			R	
	Bill No. 4 MASONRY				

**SSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

2/4/25	220mm Wide double bullnosed edge coping on top of one brick wall	m	4		
2/4/26	Coping on raking top of one brick wall	m	10		
2/4/27	Cut face brick-on-edge external window cill, 180mm wide, set sloping and slightly projecting in cement mortar and pointed on top, front edge and projecting soffit including all necessary fair raking cutting to facings under and fair and fitted ends	m	46		
2/4/28	Brick-on-edge header course lintel pointed on both face and 220mm wide soffit	m	170		
2/4/29	Construct a sample panel 2000mm long x 1500mm high of one brick wall in cement mortar faced and pointed on both sides in stretcher bond and with brick-on-edge coping to top including pointing to top and both sides and with and including necessary excavations for and including 15MPa/38mm mass concrete strip footing in a position as directed by the Representative/Agent and including demolishing and removal after completion of all brickwork	No	1		
	<b><u>FIBRE CEMENT WINDOW CILLS</u></b>				
	<b><u>15mm Thick natural grey cills in single length bedded in 4:1 sand cement mortar including metal lugs, etc:</u></b>				
2/4/30	140mm Wide cills set flat and slightly projecting.	m	46		
<b>Carried to Collection</b>				R	
Bill No. 4 MASONRY					

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Bill No. 4  MASONRY  <u><b>COLLECTION</b></u>				
	<b>Page No</b>		<b>Amount</b>	
Total Brought Forward from Page No.	41			
	42			
	43			
	44			
<p style="text-align: right;"><b>Carried Forward to Summary of Section No. 2</b></p>		R		
Bill No. 4 MASONRY				

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No		Quantity	Rate	Amount	
	<b><u>SECTION 2</u></b>				
	<b><u>BILL NO. 5</u></b>				
	<b><u>WATERPROOFING</u></b>				
	<b><u>PREAMBLES</u></b>				
	The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.				
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
	<b><u>Waterproofing</u></b>				
	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				
	<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>				
	<b><u>One layer approved 375 micron embossed black polyethylene damp proof course</u></b>				
2/5/1	In walls	m2	78		
2/5/2	Under window cills	m2	24		
	<b><u>One layer 250 micron green polyethylene waterproof sheeting complying with SABS 952 Type C in widest practicable widths with all joints lapped and sealed with pressure sensitive tape all in strict accordance with the manufacturer's requirements</u></b>				
2/5/3	Under surface beds	m2	532		
	<b>Carried Forward to Summary of Section No. 2</b>			R	
	Bill No. 5				
	WATERPROOFING				

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No		Quantity	Rate	Amount	
	<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO. 6</u></b></p> <p><b><u>ROOF COVERINGS, ETC</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Descriptions of all roof coverings are deemed to include for all straight cutting</p> <p><b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b></p> <p><b><u>0,60mm Thick Colomate prepainted IBR profile metal roof sheeting with zinc galvanised coating in single lengths fixed to timber purlins or rails.</u></b>  <b><u>(Colour to match existing building)</u></b></p> <p><b><u>Note:</u></b> The Contractor is to submit a certificate signed by the merchant, stating that the galvanised roof covering supplied complies with the required thickness specified</p>				
2/6/1	Roof covering with pitch not exceeding 25 degrees	m2	679		
2/6/2	Ridge capping 370mm girth	m	56		
2/6/3	Valley flashing 375mm girth	m	14		
	<p style="text-align: right;"><b>Carried Forward to Summary of Section No. 2</b></p> <p>Bill No. 6 ROOF COVERINGS</p>			R	

**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No	Quantity	Rate	Amount
<b><u>SECTION 2</u></b>			
<b><u>BILL NO. 7</u></b>			
<b><u>CARPENTRY &amp; JOINERY</u></b>			
<b><u>PREAMBLES</u></b>			
The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
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.			
All trusses shall be designed by a registered Professional Engineer in accordance with SABS Code of Practice for Design of Timber Structures.			
The complete structure shall be inspected by the truss designer to ensure that the manufacture and erection details have been complied with.			
<b><u>PREFABRICATED ROOF TRUSSES, ETC.</u></b>			
<b><u>Sawn softwood:</u></b>			
<b><u>Prefabricated timber roof construction complete including rafters, runners, bracing hips, valleys, cleats, purlins, etc., treated with creosote, supplied and fixed complete:</u></b>			
2/7/1	Trusses for rectangular shaped building including purlins, size overall 3.44 x 3.14m on plan (Guard house)	No	1
2/7/2	Trusses for rectangular shaped building including purlins, size overall 12.96 x 10.12m on plan (1 Classrooms).	No	1
<b>Carried to Collection</b>			R
Bill No. 7 CARPENTRY & JOINERY			



**SSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**SSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No	Quantity	Rate	Amount
<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO. 8</u></b></p> <p><b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Descriptions</u></b></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>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted", the bolts are measured elsewhere</p> <p><b><u>Proprietary suspended ceilings</u></b></p> <p>Electric light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance shall be made accordingly for their support, inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing shall take cognisance thereof)</p> <p><b><u>INSULATION, ETC</u></b></p> <p><b><u>Fibreglass insulation</u></b></p>			
2/8/1	100mm Non-combustible lightweight fibreglass insulation blanket closely fitted between tie beams and laid loose on top of bracing, etc, all as per manufacturers instructions	m2	392
Carried to Collection			R
<p>Bill No. 8</p> <p>CEILINGS &amp; BULKHEADS</p>			

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

<b><u>NAILED UP CEILINGS</u></b>					
<b><u>9mm Gypsum Plasterboard ceilings finished smooth with gypsum skim plaster</u></b>					
2/8/2	Horizontal ceiling formed of 9mm thick x 1200mm wide boards with and including H-type pressed steel jointing strips over joints, 38 x 50mm sawn softwood bandering at 400mm centres in one direction and around edges where required for fixing cornices, bandering spiked to roof timber	m2	350		
2/8/3	Extra over ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	3		
<b><u>6mm Fibre-cement plain ceiling boards with H-profile galvanised steel jointing strips:</u></b>					
2/8/4	Ceilings including 38 x 38mm sawn softwood bandering at 450mm centres with cross bandering at 450mm centres and at joints, ends of sheets and at light fittings, etc.	m2	43		
2/8/5	Extra over ceiling for 600 x 600mm hinged trap door of wrought softwood rebated framing with one sawn softwood cross bander covered with ceiling board and fitted flush in opening, including necessary trimmers all around.	No	3		
<b><u>Cornices</u></b>					
2/8/6	76mm Gypsum coved trim cornice	m	382		
<b>Carried to Collection</b>				R	
Bill No. 8 CEILINGS & BULKHEADS					

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

<p>Bill No. 8</p> <p>CEILINGS &amp; BULKHEADS</p> <p><b><u>COLLECTION</u></b></p> <p>Total Brought Forward from Page No.</p> <p><b>Carried Forward to Summary of Section No. 2</b></p> <p>Bill No. 8</p> <p>CEILINGS &amp; BULKHEADS</p>	<p><b>Page No</b></p> <p>53</p> <p>54</p>	<p><b>Amount</b></p>	
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**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 2</u></b>  <b><u>BILL NO. 9</u></b>  <b><u>FLOOR COVERINGS, WALL LININGS, ETC</u></b>  <b><u>PREAMBLES</u></b>  The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.  <b><u>SUPPLEMENTARY PREAMBLES</u></b>  NOTE : All materials shall be in colours to be selected by the Representative/Agent and, where applicable, laid to approved patterns  <b><u>FLOOR COVERINGS</u></b>  <b><u>300 x 300 x 2,5mm "Marley Travertine" fully flexible vinyl tiles or similar approved</u></b>			
2/9/1	On floors	m2	390	
	<b><u>POLISH, SEALERS, ETC</u></b>  <b><u>Sweep, clean with detergent complying with SABS 825, rinse and apply three coats of water emulsion polish complying with SABS 1042, including buffing after application of each coat of polish</u></b>			
2/9/2	On vinyl flooring	m2	390	
	<p style="text-align: right;"><b>Carried Forward to Summary of Section No. 2</b></p> <p>Bill No. 9 FLOOR COVERINGS &amp; WALL LININGS</p>		R	



**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 2</u></b>			
	<b><u>BILL NO. 10</u></b>			
	<b><u>PREAMBLES</u></b>			
	The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.			
	<b><u>HINGES, BOLTS, ETC</u></b>			
2/10/1	100mm Brass barrel bolt with keep let into concrete	No	6	
	<b><u>IRONMONGERY FIXED TO DOORS, ETC.</u></b>			
	<b><u>LOCKS:</u></b>			
2/10/2	75mm Four lever security lockset with satin chrome furniture with striking plate fixed to metal	No	22	
2/10/3	75mm Four lever rebated lockset with satin chrome furniture with striking plate fixed to metal	No	1	
	<b><u>DOOR CLOSERS</u></b>			
	<b><u>Dorma:</u></b>			
2/10/4	TS 68 door closer with parallel arm, bracket fixed to metal.	No	4	
	<b><u>NUMERAL AND NAMEPLATES, ETC.</u></b>			
	<b><u>Clear perspex name plate reverse engraved and enamelled in white lettering 25mm high to suit, twice countersunk holed for and tapscrewed to steel door frames or gate framing with chromium plated dome-headed selftapping screws:</u></b>			
2/10/5	3mm Thick x 32mm high plate with letters "KITCHEN".	No	3	
2/10/6	Ditto, but with letters "STAFFROOM".	No	2	
	<b>Carried to Collection</b>		R	
	Bill No. 10 IRONMONGERY			

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

2/10/7	Ditto, but with letters "PRINTROOM".	No	2		
2/10/8	Ditto, but with letters "STORE ROOM".	No	3		
2/10/9	Ditto, but with letters "PASTORAL CARE".	No	2		
2/10/10	Ditto, but with letters "SICKROOM".	No	4		
2/10/11	Ditto, but with letters "RECEPTION".	No	2		
2/10/12	Ditto, but with letters "PRINCIPAL".	No	2		
2/10/13	Ditto, but with letters "DEPUTY PRINCIPAL".	No	2		
2/10/14	Ditto, but with letters "CLASSROOMS".	No	3		
	<b><u>Indicator plates countersunk holed for and screwed to door or brickwork with chromium plated dome-headed screws:</u></b>				
2/10/15	190 x 190 x 3mm Thick white perspex international FB2 sign plate with red fire extinguisher symbol plugged to brickwork.	No	3		
2/10/16	190 x 190 x 3mm Thick white perspex international FB2 sign plate with red fire hose reel symbol plugged to brickwork.	No	2		
2/10/17	75 x 150mm High aluminium toilet sign with MALE and/or FEMALE figure screwed to door.	No	9		
	<b><u>PELMET AND CURTAIN TRACKS</u></b>				
2/10/18	Double curtain track for soffit fixing including 14 rollers per metre, brackets, stopped ends, etc plugged to brickwork.	m	31		
	<b><u>SUNDRIES</u></b>				
2/10/19	Rubber tipped coathook.	No	9		
2/10/20	38mm Rubber stop plugged and screwed to wall or floor.	No	7		
2/10/21	Nickel plated steel leaf spring door holder with rubber door stop plugged or screwed to floor.	No	7		
	<b>Carried to Collection</b>				
	Bill No. 10 IRONMONGERY			R	

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

2/10/22	Aluminium automatic weather seal 813mm fixed to doors	No	3			
2/10/23	19mm Stainless steel chromium plated towel rail, 600mm long, with end brackets plugged to plastered or tiled wall.	No	13			
2/10/24	3 x 30mm Brass dividing strip between different floor finishes.	m	6			
<b><u>BATHROOM FITTINGS</u></b>						
<b><u>Chairman Industries or similar approved brushed stainless steel grab rails:</u></b>						
2/10/25	300 x 300 x 300 x 32mm Stainless steel dog leg side grab rail fixed in position	No	2			
2/10/26	750 long x 200mm Projecting stainless steel straight grab rail fixed in position	No	2			
<b><u>Toilet roll holders</u></b>						
2/10/27	Lockable Stainless steel toilet roll holder plugged to wall.	No	11			
<b><u>Soap dispensers</u></b>						
2/10/28	1Litre Wall mounted refillable soap dispenser plugged.	No	11			
<b><u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</u></b>						
<b><u>Carpet pinning boards in aluminium frame with round plastic corners, pen tray and fixing component all fixed according to manufacturer's instruction.</u></b>						
2/10/29	Pinning board size 2400 x 1200mm high plugged.	No	5			
<b>Carried to Collection</b>				R		
Bill No. 10 IRONMONGERY						

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

2/10/30	<p><b><u>Swing type green chalkboard to comply with CKS-36-1980 or equivalent code of practice, complete with chalk rail as one unit fixed to wall strictly according to manufacturers instruction:</u></b></p> <p>Chalk board size overall 1140mm high x 3600mm wide consisting of 1 x chalkboard 1800mm wide, 2 x chalkboard 900mm wide, 2 x swing type chalkboard 900mm wide.</p>	No	1		
2/10/31	<p><b><u>White board marker board surface wall mounted complete with integrated pen tray according to manufacturers instruction:</u></b></p> <p>White board size 2 x 2400 x 1140mm high.</p>	No	3		
2/10/32	<p><b><u>Standard wall mounted white built in type medicine cabinet complete with mirrors on doors, shelves, etc., all as approved and to manufacturer's instruction:</u></b></p> <p>Medicine cabinet size 380mm wide x 610mm high.</p>	No	5		
<b>Carried to Collection</b>					
Bill No. 10 IRONMONGERY					R

**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**SSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No	Quantity	Rate	Amount
<b><u>SECTION 2</u></b>			
<b><u>BILL NO. 11</u></b>			
<b><u>METALWORK</u></b>			
<b><u>PREAMBLES</u></b>			
The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Descriptions</u></b>			
Descriptions of bolts shall be deemed to include nuts and washers.			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.			
Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described.			
<b><u>SECURITY MESH ABOVE CEILING</u></b>			
<b><u>The following in security mesh above ceiling including all necessary mild steel supports</u></b>			
2/11/1	Expanded metal fixed to bottom of trusses with 40 x 0.5 hat channels at 400mm centres with 12 x 20 tech screws.	m2	11
2/11/2	50 x 50 x 3mm Thick angle section frame	kg	51
2/11/3	10mm Expansion bolt, 75mm long, including mortice in brickwork or concrete	No	20
<b><u>STEEL GATES, SCREENS, ETC</u></b>			
Carried to Collection			R
Bill No. 11 METALWORK			

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

	<p><b><u>The following in framed and welded mild steel security grille gates including fixing in position complete</u></b></p>			
2/11/4	<p>Single gate and frame size 880 x 2082mm high overall formed of 50 x 50 x 2mm rectangular hollow section framing all round mitred and welded at angles, filled with 10 x 10mm mild steel bars at 100mm centres at 45degree angle with ends welded to framing including hinges, locking devices, etc.</p>	No	1	
2/11/5	<p>Single gate and frame size 925 x 2082mm high overall formed of 50 x 50 x 2mm rectangular hollow section framing all round mitred and welded at angles, filled with 10 x 10mm mild steel bars at 100mm centres at 45degree angle with ends welded to framing including hinges, locking devices, etc.</p>	No	3	
2/11/6	<p>Double gate and frame size 1870 x 2083mm high overall formed of 50 x 50 x 2mm rectangular hollow section framing all round mitred and welded at angles, with double swing doors formed of 50 x 50 x 2mm rectangular hollow section framing all round mitred and welded at angles made of filled with 10 x 10mm mild steel bars at 100mm centres at 45degree angle with ends welded to framing including hinges, locking devices, etc.</p>	No	2	
2/11/7	<p>Double gate and frame size 2230 x 2083mm high overall formed of 50 x 50 x 2mm rectangular hollow section framing all round mitred and welded at angles, with double swing doors size 1520 x 2083mm high overall formed of 50 x 50 x 2mm rectangular hollow section framing all round mitred and welded at angles made of filled with 10 x 10mm mild steel bars at 100mm centres at 45degree angle with ends welded to framing including hinges, locking devices, etc.</p>	No	1	
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Bill No. 11 METALWORK</p>			<p style="text-align: center;">R</p>

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

2/11/8	Double gate and frame size 3440 x 2083mm high overall formed of 50 x 50 x 2mm rectangular hollow section framing all round mitred and welded at angles, with double swing doors size 1750 x 2083mm high overall formed of 50 x 50 x 2mm rectangular hollow section framing all round mitred and welded at angles made of filled with 10 x 10mm mild steel bars at 100mm centres at 45degree angle with ends welded to framing including hinges, locking devices, etc.	No	1		
	<b><u>PRESSED STEEL DOOR FRAMES</u></b>				
	<b><u>1, 2mm Double rebated frames suitable for half brick walls with two 100mm steel butt hinges per leaf</u></b>				
2/11/9	Frame for door size, 813x 2032mm high	No	22		
	<b><u>1,2mm Double rebated frames suitable for one brick walls with two 100mm steel butt hinges per leaf</u></b>				
2/11/10	Frame for door size, 813x 2032mm high	No	3		
2/11/11	Frame for double door size, 1600 x 2032mm high	No	1		
	<b><u>STEEL CUPBOARDS</u></b>				
2/11/12	Double door steel cupboard bolted to wall 1400 x 1700mm high	No	1		
	<b><u>STRONGROOM, RECORD ROOM DOORS, VENTILATORS, ETC</u></b>				
	<b><u>NOTE</u></b>				
	The rates for strongroom doors, wall safes and ventilators shall include for fixing in position complete				
2/11/13	Category 2 heavy duty anti-explosive strongroom door and frame for wall opening size 944 x 2032mm high overall, with a mass of 590kg, 20mm outer plate, two seven lever locks, etc. and fixed in position in opening in 220mm brick wall	No	1		
	<b>Carried to Collection</b>			R	
	Bill No. 11 METALWORK				



**SSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

	<b><u>The following in framed and welded mild steel supports for seating in entrance hall</u></b>				
2/11/24	50 x 50 x 3mm Hollow tube members of support, welded to form 500 x 500mm frame with mitred joints, fixed to floor with 50mm long 10mm diameter rawl bolts	No	5		
2/11/25	Extra for splay cut end	No	10		
2/11/26	Extra for mitred and welded angle	No	20		
2/11/27	Hole through 3mm steel for 10mm diameter bolt (elsewhere)	No	20		
2/11/28	M10 x 50mm Expansion bolt	No	20		
	<b><u>The following in framed and welded mild steel supports for worktops</u></b>				
2/11/29	50 x 50 x 3mm Angle section supports	kg	60		
2/11/30	Triangular shaped bracket formed of welded 25 x 25 x 3mm Flat sections, welded to vertical members of supports, fixed into brick wall with 10mm dia bolts	No	30		
2/11/31	50 x 50 x 3mm Hollow tube vertical members of support, welded to frame, with plastic plug at the bottom	No	30		
2/11/32	Extra for mitred and welded angle intersection	No	40		
2/11/33	Hole through 3mm thick steel for 8mm diameter bolt (elsewhere)	No	60		
2/11/34	M8 x 70mm Expansion bolt	No	60		
	<b><u>The following in framed and welded mild steel supports for shelves</u></b>				
2/11/35	50 x 50 x 3mm Angle section supports	kg	39		
2/11/36	Triangular shaped bracket formed of welded 25 x 25 x 3mm Flat sections, welded to vertical members of supports, fixed into brick wall with 10mm dia bolts	No	45		
2/11/37	Extra for mitred and welded angle intersection	No	45		
	<b>Carried to Collection</b>			R	
	Bill No. 11 METALWORK				

**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No		Quantity	Rate	Amount	
	<b><u>SECTION 2</u></b>				
	<b><u>BILL NO. 12</u></b>				
	<b><u>PLASTERING</u></b>				
	<b><u>PREAMBLES</u></b>				
	The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.				
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
	<b><u>Plaster on concrete</u></b>				
	Plaster described as "on brickwork" shall be deemed to include for small portions of plaster on concrete flush with brickwork and prices should include for all the necessary preparatory work				
	<b><u>SCREEDS</u></b>				
	<b><u>1:3 Screeds wood trowelled on concrete</u></b>				
2/12/1	30mm Thick on floors and landings	m2	390		
	<b><u>GRANOLITHIC</u></b>				
	<b><u>Untinted granolithic on concrete (degree of accuracy grade III)</u></b>				
2/12/2	30mm Thick on floors and landings	m2	219		
	<b><u>INTERNAL PLASTER</u></b>				
	<b><u>1:4 Cement plaster on brickwork finished smooth with wood float</u></b>				
2/12/3	On walls	m2	968		
2/12/4	On narrow widths	m2	22		
	<b>Carried Forward to Summary of Section No. 2</b>			R	
	Bill No. 12				
	PLASTERING				

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No			Quantity	Rate	Amount	
	<b><u>SECTION 2</u></b>					
	<b><u>BILL NO. 13</u></b>					
	<b><u>TILING</u></b>					
	<b><u>PREAMBLES</u></b>					
	The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.					
	<b><u>WALL TILING</u></b>					
	<b><u>200 x 200mm "College Shiny White" Porcelain wall tiles fixed with adhesive to plastered wall and flush pointed with tinted waterproof jointing compound, dove grey grout</u></b>					
2/13/1	On walls	m2	79			
2/13/2	On isolated panels, splashbacks, etc to walls not exceeding 1m2	m2	4			
2/13/3	Fair exposed cutting and fitting around pipe exceeding 50 and not exceeding 100mm internal diameter (Provisional)	No	15			
2/13/4	Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 200mm internal diameter (Provisional)	No	5			
	<b><u>300 x 300mm "White Matt" Porcelain Mosaic wall tiles fixed with adhesive to plastered wall and flush pointed with tinted waterproof jointing compound, dove grey grout</u></b>					
2/13/5	On walls	m2	9			
	<b>Carried Forward to Summary of Section No. 2</b>				R	
	Bill No. 13					
	TILING					

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No		Quantity	Rate	Amount	
	<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO. 14</u></b></p> <p><b><u>PLUMBING &amp; DRAINAGE (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>uPVC pipes and fittings:</u></b></p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed</p> <p><b><u>Copper pipes:</u></b></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" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground</p> <p><b><u>Fixing of pipes</u></b></p> <p><b>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</b></p> <p><b><u>Lead pipes and fittings</u></b></p> <p>All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel</p>				
	<b>Carried to Collection</b>		R		
	<p>Bill No. 14</p> <p>PLUMBING &amp; DRAINAGE</p>				

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

<p><b><u>Reducing fittings</u></b></p> <p>Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained</p> <p><b><u>Excavations</u></b></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><b><u>Laying, backfilling, bedding, etc. of pipes</u></b></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions</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><b><u>Stainless steelbasins, sinks, wash troughs, urinals, etc.</u></b></p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Bill No. 14 PLUMBING &amp; DRAINAGE</p>			R	
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SSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT

	<p><b><u>Waste unions</u></b></p> <p>Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings</p> <p><b><u>User note:</u></b></p> <p>Please note the rate for butt weldings is deemed to be included in all fittings</p> <p><b><u>RAIN WATER GOODS</u></b></p> <p><b><u>Pre-Painted Seamless Aluminium Ogee Gutters (or similar approved), Rainwater Pipes And Accessories In Long Lengths</u></b></p> <p>2/14/1 100 x 125mm Industrial ogee eaves gutter fixed to fibre cement fascia. m 104</p> <p><b><u>Extra for</u></b></p> <p>2/14/2 Stopped end. No 16</p> <p>2/14/3 External angle. No 16</p> <p>2/14/4 Outlet with nozzle for 100 x 75mm rainwater pipe. No 20</p> <p><b><u>(End Of Extra For)</u></b></p> <p>2/14/5 100 x 75 x 2mm Rainwater pipe plugged to wall. m 53</p> <p><b><u>Extra For</u></b></p> <p>2/14/6 Shoe. No 20</p> <p>2/14/7 Bend. No 20</p> <p>2/14/8 Swanneck bend. No 20</p> <p><b><u>SANITARY FITTINGS AND GEYSERS</u></b></p>			
	<p style="text-align: right;"><b>Carried to Collection</b></p> <p>Bill No. 14 PLUMBING &amp; DRAINAGE</p>		R	

**SSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

	<b><u>Taps, valves, etc</u></b>				
2/14/15	Kitchen range (SS-970) 15mm chrome single lever sink mixer with tubular swivel outlet, adjustable wall flanges	No	2		
2/14/16	15mm 'Star 111-CP' raised nose pillartap.	No	11		
2/14/17	15mm Type '505-21 CP' elbow action pillartap.	No	2		
2/14/18	15mm Type 'P-832 CP' angle regulating valve.	No	28		
2/14/19	15mm Type '350F CP' flexible connection.	No	26		
	<b><u>WASTE UNIONS, TRAPS, ETC.</u></b>				
	<b><u>Traps, etc.</u></b>				
2/14/20	32 x 40mm 'Flexitrap' butyl rubber deep seal 'P' or 'S' trap jointed to waste outlet fitting and to PVC pipe including coupling clamps, etc.	No	13		
2/14/21	40 x 40mm 'Flexitrap' butyl rubber deep seal 'P' or 'S' trap jointed to waste outlet fitting and to PVC pipe including coupling clamps, etc.	No	2		
2/14/22	Ditto, but combination trap.	No	2		
	<b><u>Waste unions</u></b>				
2/14/23	40mm Chromium plated '316CP' sink waste union complete with plug and chain.	No	2		
2/14/24	32mm Chromium plated '303-CP' slotted basin waste union complete with plug only.	No	13		
	<b><u>FIRE APPLIANCES, ETC.</u></b>				
	<b><u>Fire extinguishers, hose reels, etc.:</u></b>				
2/14/25	4,5kg Dry chemical powder fire extinguisher fixed to wall with meranti backboard, size 520 x 100 x 22mm thick, plugged and screwed to wall complete with hook.	No	3		
2/14/26	Fire hose reel	No	2		
	<b>Carried to Collection</b>			R	
	Bill No. 14 PLUMBING & DRAINAGE				

CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT

	<b><u>HOT &amp; COLD WATER RETICULATION INSTALLATION - ADMINISTRATION</u></b>					
	<b><u>All rates supplied in this Bill of Quantities will be deemed to include scaffolding to any height and fixing of cold and hot water pipes up to and including roof height. All pipes suspended from concrete slabs, roof, ceiling, etc. shall be deemed to include in the rates, all necessary hanger brackets, threaded rod (irrespective of the suspension length), nuts, washers, anchors and drilling of holes in the concrete slab. For the complete supply, delivery and installation of supply piping, as specified, piping to include piping between geysers on roof. All cold and hot water pipes are to be chased into walls except where pipes are to be surface-mounted on wall face or run in ceiling voids or inside ducts, and fixed with standard type pipe saddlers and brackets at 1000mm maximum.</u></b>					
	<b><u>HOT &amp; COLD WATER PIPING</u></b>					
	<b><u>Supply and install Pex-Al-Pex multilayer pipes</u></b>					
2/14/27	32mm pipe	m	5			
2/14/28	Ø20mm pipe	m	10			
2/14/29	Ø16mm pipe	m	80			
	<b><u>FITTINGS</u></b>					
	<b><u>Supply and install Pex-Al-Pex multilayer pipes Fittings</u></b>					
2/14/30	Ø32mm Equal T-piece	No	2			
2/14/31	Ø32mm Ø16mm Ø32mm Un-Equal T-piece	No	5			
2/14/32	Ø32mm Ø20mm Ø32mm Un-Equal T-piece	No	5			
2/14/33	Ø20mm Ø16mm Ø20mm Un-Equal T-piece	No	10			
	<b>Carried to Collection</b>				R	
	Bill No. 14 PLUMBING & DRAINAGE					

**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

2/14/34	Ø16mm Ø16mm Ø16mm Equal T-piece	No	20	SUM	
2/14/35	Threaded Ø32mm Elbow: 90°	No	10		
2/14/36	Threaded Ø20mm Elbow: 90°	No	15		
2/14/37	Threaded Ø16mm Elbow: 90°	No	30		
2/14/38	Reducer: Ø32mm x Ø20mm	No	5		
2/14/39	Reducer: Ø20mm x Ø16mm	No	5		
2/14/40	Pipe clamps and hangers				
	<b><u>THREADED VALVES</u></b>				
2/14/41	Supply and Install Ø32mm isolating gate valve on cold water main pipes	No	1		
2/14/42	Supply and Install Ø25mm isolating gate valve on cold water main pipes	No	2		
2/14/43	Supply and Install Ø20mm isolating ball valve with lever on cold and hot water main pipes	No	2		
2/14/44	Supply and Install Ø15mm isolating ball valve with lever on cold and hot water main pipes	No	15		
2/14/45	Flexible connector to sanitary fittings	No	15		
2/14/46	Supply and Install 15mm diameter stopcock/angle valve on cold and hot water pipe to sanitary appliance or sink	No	15		

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

2/14/47	<p><b><u>ELECTRIC WATER GEYSER &amp; PRE-HEATER SOLAR GEYSER</u></b></p> <p>Supply and install a Pre-heater solar geyser to comply with the SANS 1307, mounted on the roof complete with copper piping, pressure valves, draincock, vacuum breakers, thermostat, expansion relief valve, strainers, lever ball valves, drip tray, hot water pipe insulation, mixing valve, and all accessories and fittings, solar absorption unit must be flat panels and tank heat exchangers should be of jacket type electric backup. Capacity: 150 litres. Element Rating: 3 kW</p> <p style="text-align: right;">No</p> <p><b><u>HOT &amp; COLD WATER RETICULATION INSTALLATION - GUARD HOUSE BLOCK</u></b></p> <p><b><u>All rates supplied in this Bill of Quantities will be deemed to include scaffolding to any height and fixing of cold and hot water pipes up to and including roof height. All pipes suspended from concrete slabs, roof, ceiling, etc. shall be deemed to include in the rates, all necessary hanger brackets, threaded rod (irrespective of the suspension length), nuts, washers, anchors and drilling of holes in the concrete slab. For the complete supply, delivery and installation of supply piping, as specified, piping to include piping between geysers on roof. All cold and hot water pipes are to be chased into walls except where pipes are to be surface-mounted on wall face or run in ceiling voids or inside ducts, and fixed with standard type pipe saddlers and brackets at 1000mm maximum.</u></b></p> <p><b><u>HOT &amp; COLD WATER PIPING</u></b></p> <p><b><u>Supply and install Pex-Al-Pex multilayer pipes</u></b></p>	1		
2/14/48	32mm pipe	m	3	
2/14/49	Ø20mm pipe	m	1	
2/14/50	Ø16mm pipe	m	1	
	<b><u>FITTINGS</u></b>			
	<b>Carried to Collection</b>		R	
	Bill No. 14 PLUMBING & DRAINAGE			

**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

	<p><b><u>All rates supplied in this Bill of Quantities will be deemed to include scaffolding to any height and fixing of cold and hot water pipes up to and including roof height. All pipes suspended from concrete slabs, roof, ceiling, etc. shall be deemed to include in the rates, all necessary hanger brackets, threaded rod (irrespective of the suspension length), nuts, washers, anchors and drilling of holes in the concrete slab. For the complete supply, delivery and installation of supply piping, as specified, piping to include piping between geysers on roof. All cold and hot water pipes are to be chased into walls except where pipes are to be surface-mounted on wall face or run in ceiling voids or inside ducts, and fixed with standard type pipe saddlers and brackets at 1000mm maximum.</u></b></p> <p><b><u>HOT &amp; COLD WATER PIPING</u></b></p> <p><b><u>Supply and install Pex-Al-Pex multilayer pipes</u></b></p>					
2/14/62	32mm pipe	m	5			
2/14/63	Ø20mm pipe	m	20			
2/14/64	Ø16mm pipe	m	50			
	<p><b><u>FITTINGS</u></b></p> <p><b><u>Supply and install Pex-Al-Pex multilayer pipes Fittings</u></b></p>					
2/14/65	Ø32mm Ø20mm Ø32mm Un-Equal T-piece	No	1			
2/14/66	Ø20mm Ø16mm Ø20mm Un-Equal T-piece	No	2			
2/14/67	Ø16mm Ø16mm Ø16mm Equal T-piece	No	2			
2/14/68	Threaded Ø32mm Elbow: 90°	No	1			
2/14/69	Threaded Ø20mm Elbow: 90°	No	5			
2/14/70	Threaded Ø16mm Elbow: 90°	No	20			
	<b>Carried to Collection</b>				R	
	Bill No. 14 PLUMBING & DRAINAGE					



**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

2/14/71	Reducer: Ø32mm x Ø20mm	No	1		
2/14/72	Reducer: Ø20mm x Ø16mm	No	2		
2/14/73	Pipe clamps and hangers			SUM	
<b><u>THREADED VALVES</u></b>					
2/14/74	Supply and Install Ø32mm isolating gate valve on cold water main pipes	No	1		
2/14/75	Supply and Install Ø20mm isolating gate valve on cold water main pipes	No	2		
2/14/76	Supply and Install Ø15mm isolating ball valve with lever on cold and hot water main pipes	No	9		
2/14/77	Flexible connector to sanitary fittings	No	12		
2/14/78	Supply and Install 15mm diameter stopcock/angle valve on cold and hot water pipe to sanitary appliance or sink	No	12		
<b><u>SANITARY DRAINAGE INSTALLATION - ADMINISTRATION</u></b>					
<b><u>These bills of quantities form part of and must be read in conjunction with the Technical Specifications and Drawings, which contain the full descriptions of the work to be done and material and equipment to be used. Unless otherwise described in these bills of quantities, reference should be made to the Technical Specifications for the full meaning of descriptions of work to be done and materials and equipment to be used in this service. All materials, equipment, fixings, brackets, etc, are to be supplied by the Contractor unless otherwise stated.</u></b>					
<b><u>SANITARY DRAINAGE PIPING</u></b>					
<b><u>Polyvinyl Chloride (PVC) pipe, as 'Marley Pipe Systems' or equal approved, including couplers in the running length, installed in accordance with SANS 10400 and SANS 10252-2:2004</u></b>					
<b>Carried to Collection</b>				R	
Bill No. 14 PLUMBING & DRAINAGE					

SSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT

Bill No. 14  
PLUMBING & DRAINAGE

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

	<p><b><u>These bills of quantities form part of and must be read in conjunction with the Technical Specifications and Drawings, which contain the full descriptions of the work to be done and material and equipment to be used. Unless otherwise described in these bills of quantities, reference should be made to the Technical Specifications for the full meaning of descriptions of work to be done and materials and equipment to be used in this service. All materials, equipment, fixings, brackets, etc, are to be supplied by the Contractor unless otherwise stated.</u></b></p> <p><b><u>SANITARY DRAINAGE PIPING</u></b></p> <p><b><u>Polyvinyl Chloride (PVC) pipe, as 'Marley Pipe Systems' or equal approved, including couplers in the running length, installed in accordance with SANS 10400 and SANS 10252-2:2004</u></b></p> <p><b><u>PIPING</u></b></p>					
2/14/94	Ø50mm uPVC pipe	m	3			
2/14/95	Ø110mm uPVC pipe	m	3			
	<b><u>PIPE FITTINGS</u></b>					
2/14/96	Ø50mm fitting; 90°elbow	No	4			
2/14/97	Ø110mm fitting; 45°elbow	No	1			
2/14/98	Ø110mm fitting; 95°elbow, with Ø50mm vent horn inspection	No	1			
2/14/99	Ø110mm fitting; 95°elbow, plain long bend	No	1			
2/14/100	Ø110mm x Ø110mm x Ø110mm fitting; 87.5° swept entry, lateral branch junction	No	1			
2/14/101	Ø110mm straight pan collars/connector	No	1			
2/14/102	Ø50mm vent one way valve	No	1			
	<b>Carried to Collection</b>			R		
	Bill No. 14 PLUMBING & DRAINAGE					

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

2/14/103	<p><b><u>WASTE TRAPS</u></b></p> <p>Supply and install chromium plated 'Cobra' Bottle Trap with 40mm female inlet x 50mm outlet for PVC tube connection</p> <p style="text-align: right;">No</p> <p><b><u>SANITARY DRAINAGE INSTALLATION - CLASSROOM BLOCK</u></b></p> <p><b><u>These bills of quantities form part of and must be read in conjunction with the Technical Specifications and Drawings, which contain the full descriptions of the work to be done and material and equipment to be used. Unless otherwise described in these bills of quantities, reference should be made to the Technical Specifications for the full meaning of descriptions of work to be done and materials and equipment to be used in this service. All materials, equipment, fixings, brackets, etc, are to be supplied by the Contractor unless otherwise stated.</u></b></p> <p><b><u>SANITARY DRAINAGE PIPING</u></b></p> <p><b><u>Polyvinyl Chloride (PVC) pipe, as 'Marley Pipe Systems' or equal approved, including couplers in the running length, installed in accordance with SANS 10400 and SANS 10252-2:2004</u></b></p> <p><b><u>PIPING</u></b></p>	1		
2/14/104	Ø50mm uPVC pipe	m	15	
2/14/105	Ø110mm uPVC pipe	m	30	
	<b><u>PIPE FITTINGS</u></b>			
2/14/106	Ø50mm fitting; 90°elbow	No	6	
2/14/107	Ø110mm fitting; 45°elbow	No	6	
2/14/108	Ø110mm fitting; 95°elbow, with Ø50mm vent horn inspection	No	3	
2/14/109	Ø110mm fitting; 95°elbow, plain long bend	No	6	
	<b>Carried to Collection</b>			R
	Bill No. 14 PLUMBING & DRAINAGE			

**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

2/14/110	Ø110mm x Ø110mm x Ø50mm fitting; 87.5° swept entry, lateral branch junction	No	1		
2/14/111	Ø110mm x Ø110mm x Ø110mm fitting; 87.5° swept entry, lateral branch junction	No	3		
2/14/112	Ø110mm straight pan collars/connector	No	3		
2/14/113	Ø110mm x Ø50mm fitting; concentric reducer	No	3		
2/14/114	Ø100mm vent 2way valve	No	3		
<b><u>WASTE TRAPS</u></b>					
2/14/115	40mm 'Dutton' flexi rubber "P" trap complete with coupling clamps.	No	1		
2/14/116	Supply and install chromium plated 'Cobra' Bottle Trap with 40mm female inlet x 50mm outlet for PVC tube connection	No	5		
2/14/117	110mm Floor Drain complete a trap.	No	1		
2/14/118	110mm Floor Gulley Complete with gulley stone, trap and crate	No	3		
				R	
<p style="text-align: center;"><b>Carried to Collection</b></p> <p>Bill No. 14 PLUMBING &amp; DRAINAGE</p>					

**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**SSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 2</u></b></p> <p><b><u>BILL NO. 15</u></b></p> <p><b><u>GLAZING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>GLAZING TO STEEL WITH PUTTY</u></b></p> <p><b><u>5.38mm Clear laminated safety glass</u></b></p> <p><b><u>4 mm Clear float glass fixed to steel window with putty</u></b></p>			
2/15/1	Panes not exceeding 0,1m²	m2	41	
	<p><b><u>4 mm Opaque glass fixed to steel window with putty</u></b></p>			
2/15/2	Panes not exceeding 0,1m²	m2	7	
	<p><b><u>MIRRORS</u></b></p> <p><b><u>Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with foam backing strip all round to plugs in walls</u></b></p>			
2/15/3	6mm "GG" quality polished glass mirror 450 x 600mm high with polished edges fixed to wall with four 35mm round nose chromium plated mirror screws	No	13	
	<p><b>Carried Forward to Summary of Section No. 2</b></p> <p>Bill No. 15</p> <p>GLAZING</p>		R	

**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No	Quantity	Rate	Amount
<b><u>SECTION 2</u></b>			
<b><u>BILL NO. 16</u></b>			
<b><u>PAINTWORK</u></b>			
<b><u>PREAMBLES</u></b>			
The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>DESCRIPTIONS</u></b>			
Descriptions of paintwork shall be deemed to include for all cutting in			
<b><u>PAINTWORK, ETC TO NEW WORK</u></b>			
<b><u>ON FLOATED PLASTER</u></b>			
<b><u>Prepare, stop and apply one coat masonry primer, one universal undercoat and two coats acrylic PVA paint such as Plascon True Colour Fresh Linen or similar approved</u></b>			
2/16/1	On internal plastered walls	m2	918
<b><u>ON PLASTERBOARD</u></b>			
<b><u>Prepare, stop and apply two full coats semi-gloss PVA co-polymer paint to comply with SABS Specification No. 643</u></b>			
2/16/2	On ceilings and cornices	m2	392
<b><u>ON METAL</u></b>			
Carried to Collection			R
Bill No. 16 PAINTING			



**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

2/16/3	<b><u>Prepare and apply two coats bitumen paint</u></b>				
	On inside of 100 x 125mm galvanised sheet iron eaves gutter before fixing	m2	34		
2/16/4	<b><u>Prepare, stop and apply one coat alkaline resistant primer, one coat universal undercoat and two coats eggshell enamel paint</u></b>				
	On eaves gutters	m2	42		
2/16/5	On down pipes	m2	5		
2/16/6	<b><u>Prepare, touch up factory primer and apply one coat universal undercoat and two full coats high gloss enamel paint</u></b>				
	On Windows with burglar bars (both sides measured flat)	m2	97		
2/16/7	On Steel & glass cottage pane door (both sides measured flat)	m2	12		
2/16/8	On pressed steel door frames	m2	26		
2/16/9	<b><u>Prepare and apply one coat zinc phosphate alkyd resin primer, one coat universal undercoat and two full coats high gloss enamel paint</u></b>				
	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	54		
<b><u>ON WOOD</u></b>					
2/16/10	<b><u>Prepare, stop and apply three coats clear varnish</u></b>				
	On doors	m2	90		
2/16/11	On meranti skirting, dado rail etc.	m	416		
2/16/12	<b><u>One coat creosote paint</u></b>				
	On roof timbers at eaves and verges	m2	52		
<b>Carried to Collection</b>				R	
Bill No. 16 PAINTING					

**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Bill No	SECTION SUMMARY - BUILDING WORKS	Page No	Amount
2/1	DEMOLITIONS	32	
2/2	EARTHWORKS	36	
2/3	CONCRETE, FORMWORK & REINFORCEMENT	40	
2/4	MASONRY	45	
2/5	WATERPROOFING	46	
2/6	ROOF COVERINGS	47	
2/7	CARPENTRY & JOINERY	52	
2/8	CEILINGS & BULKHEADS	55	
2/9	FLOOR COVERINGS & WALL LININGS	56	
2/10	IRONMONGERY	61	
2/11	METALWORK	68	
2/12	PLASTERING	69	
2/13	TILING	70	
2/14	PLUMBING & DRAINAGE	86	
2/15	GLAZING	87	
2/16	PAINTING	90	
Carried to Final Summary		R	

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No		Quantity	Rate	Amount	
	<b><u>SECTION NO. 3</u></b>				
	<b><u>BILL NO. 1</u></b>				
	<b><u>BULK EARTHWORKS (PROVISIONAL)</u></b>				
	<b><u>PREAMBLES</u></b>				
	The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.				
	<b><u>SITE CLEARANCE, ETC</u></b>				
3/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	1 731		
3/1/2	Strip topsoil average 100mm deep and dispose off site	m2	1 731		
	<b><u>BULK EXCAVATION, FILLING, ETC TO FORM PLATFORMS</u></b>				
	<b><u>Open face excavation in earth over sloping site</u></b>				
3/1/3	Open face excavation	m3	162		
	<b><u>Extra over bulk excavation in earth for excavation in</u></b>				
3/1/4	Soft rock	m3	16		
3/1/5	Hard rock	m3	8		
	<b><u>Extra over all excavations for carting away</u></b>				
3/1/6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	162		
	<b><u>Keeping excavations free of water</u></b>				
3/1/7	Keeping excavations free of all water other than subterranean water	Item			
	<b>Carried to Collection</b>			R	
	Bill No. 1 BULK EARTHWORKS (PROVISIONAL)				

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

<b><u>FILLING, ETC</u></b>				
<b><u>Earth filling of obtained from excavations compacted in 150mm layers to 93% Mod AASHTO density</u></b>				
3/1/8	Filling to form level platforms	m3	162	
<b><u>Earth filling of G5 material supplied by the contractor compacted in 150mm layers to 95% Mod AASHTO density</u></b>				
3/1/9	Filling to form level platforms	m3	162	
<b><u>Compaction of surfaces</u></b>				
3/1/10	Compaction of natural or excavated ground surface under floors, 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	539	
<b><u>Prescribed density tests on filling</u></b>				
3/1/11	"Modified AASHTO Density" test	No	11	
<b><u>SOIL POISONING</u></b>				
<b><u>Soil insecticide in accordance with SANS 5859</u></b>				
3/1/12	Under floors including forming and poisoning shallow furrows against foundation walls, filling in furrows and ramming	m2	539	
<b>Carried to Collection</b>				R
Bill No. 1 BULK EARTHWORKS (PROVISIONAL)				

**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No	Quantity	Rate	Amount
<b><u>SECTION NO. 3</u></b>			
<b><u>BILL NO. 2</u></b>			
<b><u>SEWER RETICULATION (PROVISIONAL)</u></b>			
<b><u>PREAMBLES</u></b>			
The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.			
<b><u>SEWER PIPEWORK</u></b>			
<b><u>UPVC Class 34 pipes including excavation, bedding, backfilling and compaction and disposal of surplus material</u></b>			
3/2/1	160mm Pipes laid in and including trenches not exceeding 1m deep	m	1
3/2/2	160mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	176
3/2/3	160mm Pipes laid in and including trenches exceeding 2m and not exceeding 3m deep	m	4
<b><u>Extra over uPVC class 34 pipes for fittings</u></b>			
3/2/4	22.5 Degree bend	No	22
3/2/5	45 Degree bend	No	22
3/2/6	45 degree plain junction	No	22
3/2/7	Rodding eye	No	5
<b><u>Sundries</u></b>			
3/2/8	350 x 350mm 15MPa Unreinforced concrete encasing around 160mm horizontal pipe	m3	22
<b>Carried to Collection</b>			R
Bill No. 2 SEWER RETICULATION (PROVISIONAL)			

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

3/2/9	110mm uPVC cleaning eye to end of 110mm uPVC pipe	No	5		
3/2/10	350 x 350 x 50mm Thick precast concrete inspection eye marker slab finished smooth on exposed surfaces with letters "I.O." or "I.E." on top and placed flush in ground or paving	No	5		
<b><u>MANHOLES</u></b>					
<b><u>Precast concrete manholes with medium duty concrete manhole cover and frame, frame bedded in 1:3 cement mortar, spacers bedded in 1:6 cement mortar and precast concrete slab including excavations, backfilling, compaction, risk of collapse, cartaway surplus material, 150mm thick unreinforced 25MPa/19mm concrete base projecting 65mm wide from walls, benching, junctions, channelling, and step irons all in accordance with engineer's drawings for the following depths:</u></b>					
3/2/11	1250mm diameter (internally) Precast concrete manhole exceeding 1.0m and not exceeding 2.0m deep internally	No	3		
3/2/12	1250mm diameter (internally) Precast concrete manhole exceeding 1.0m and not exceeding 2.0m deep internally	No	2		
<b><u>SEWER CONNECTION</u></b>					
3/2/13	Cutting into side of existing manhole chamber for and connecting 160mm pipe including inserting 160mm channel junction and making good concrete benching	No	1		
<b><u>TESTING</u></b>					
3/2/14	Testing soil drainage system		Item		
<b>Carried to Collection</b>				R	
Bill No. 2 SEWER RETICULATION (PROVISIONAL)					



**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No		Quantity	Rate	Amount	
	<b><u>SECTION NO. 3</u></b>				
	<b><u>BILL NO. 3</u></b>				
	<b><u>WATER RETICULATION (PROVISIONAL)</u></b>				
	<b><u>WATER PIPEWORK</u></b>				
	<b><u>uPVC Class 12 pressure pipes including excavation, bedding, backfilling and compaction and disposal of surplus material</u></b>				
3/3/1	50mm Pipes laid in and including trenches not exceeding 1m deep	m	210		
3/3/2	50mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	1		
	<b><u>Extra over uPVC class 12 pipes for fittings</u></b>				
3/3/3	50mm Bend	No	9		
3/3/4	50mm Junction	No	9		
3/3/5	50mm Elbow	No	9		
3/3/6	50mm Equal Tee	No	9		
	<b><u>Sundries</u></b>				
3/3/7	50mm Brass gate valve	No	10		
3/3/8	110mm Brass gate valve	No	1		
3/3/9	50mm Brass non-return valve	No	10		
3/3/10	620 x 550mm Valve box including brick chamber below not exceeding 1m deep internally, heavy duty weight frame and cover, excavation, backfilling, compaction and disposal of surplus material	No	10		
	<b>Carried to Collection</b>			R	
	Bill No. 3 WATER RETICULATION (PROVISIONAL)				

**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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SSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 4</u></b>			
	<b><u>WALKWAYS (PROVISIONAL)</u></b>			
	<b><u>PREAMBLES</u></b>			
	The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.			
	<b><u>BULK EXCAVATION, FILLING, ETC TO FORM PLATFORMS</u></b>			
	<b><u>Excavation in earth not exceeding 2m deep</u></b>			
3/4/1	Reduce levels under paving	m3	26	
	<b><u>Extra over bulk excavation in earth for excavation in</u></b>			
3/4/2	Soft rock	m3	3	
3/4/3	Hard rock	m3	1	
	<b><u>Extra over all excavations for carting away</u></b>			
3/4/4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	26	
	<b><u>Compaction of surfaces</u></b>			
3/4/5	Compaction of natural or excavated ground surface under floors, 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	86	
	<b><u>SOIL POISONING</u></b>			
	<b>Carried to Collection</b>		R	
	Bill No. 4 WALKWAYS (PROVISIONAL)			

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

3/4/6	<b><u>Weed killer under a 10 year guarantee by firm of specialist</u></b>				
	Under paving, etc	m2	86		
3/4/7	<b><u>LAYER WORK</u></b>				
	<b><u>Earth filling of G5 material supplied by the contractor compacted in 150mm layers to 95% Mod AASHTO density</u></b>				
3/4/7	Filling under paved areas	m3	26		
	<b><u>Coarse river sand filling supplied by the contractor</u></b>				
3/4/8	Under paved walkway areas	m3	2		
	<b><u>Filling of 19mm crushed stone, consolidated</u></b>				
3/4/9	On floors	m3	2		
	<b><u>Prescribed density tests on filling</u></b>				
3/4/10	"Modified AASHTO Density" test	No	2		
	<b><u>PAVING</u></b>				
3/4/11	<b><u>Shape S-A interlocking precast concrete paving blocks complying with SANS 1058, with butt joints on 20mm thick river sand bed with sand swept into joints, including preparation of ground or filling</u></b>				
	Paving of 60mm thick blocks	m2	87		
3/4/12	<b><u>KERBING</u></b>				
	<b><u>Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing</u></b>				
3/4/12	Kerb (SABS 927 fig 10) 150 x 300mm high with 150 x 40mm thick 1:6 cement mortar bed and 300 x 200 x 200mm overall 19MPa/19mm unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	106		
<b>Carried to Collection</b>				R	
Bill No. 4 WALKWAYS (PROVISIONAL)					

**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No		Quantity	Rate	Amount	
	<b><u>SECTION NO. 3</u></b>				
	<b><u>BILL NO. 5</u></b>				
	<b><u>LANDSCAPING</u></b>				
	<b><u>PREAMBLES</u></b>				
	The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.				
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
	<b><u>Maintenance period</u></b>				
	All planted areas shall be maintained for a period of three months after practical completion as defined in the contract with the exception of hydro seeded areas which shall be maintained for 12 months after an acceptable cover has been obtained.				
	This maintenance shall consist of keeping clear of weeds and litter, loosening soil where necessary every two weeks, replacing damaged, diseased or dead plants, pruning, cutting and mowing as necessary and watering so as to keep the plant material in a healthy growing condition.				
	<b><u>LANDSCAPING</u></b>				
	<b><u>Ground preparation</u></b>				
3/5/1	Cultivation and preparation of areas to be planted	m2	1 131		
	<b><u>Well sifted topsoil supplied by the contractor, including spreading and levelling</u></b>				
3/5/2	In plant beds, grassed areas and holes for trees, shrubs, etc	m2	1 131		
	<b><u>Compost, lime and fertilizer</u></b>				
3/5/3	Compost in plant beds, holes for trees, shrubs, etc	m2	1 131		
	<b>Carried to Collection</b>			R	
	Bill No. 5 LANDSCAPING				



**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

<p>Bill No. 5</p> <p>LANDSCAPING</p> <p><b><u>COLLECTION</u></b></p> <p>Total Brought Forward from Page No.</p> <p><b>Carried Forward to Summary of Section No. 3</b></p> <p>Bill No. 5</p> <p>LANDSCAPING</p>	<p><b>Page No</b></p> <p>104</p> <p>105</p>	<p><b>Amount</b></p>	
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**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No		Quantity	Rate	Amount	
	<b><u>SECTION NO. 3</u></b>				
	<b><u>BILL NO. 3</u></b>				
	<b><u>FENCING</u></b>				
	<b><u>PREAMBLES</u></b>				
	The contractor is referred to the General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors before pricing this bill.				
	<b><u>FENCING</u></b>				
	<b><u>Removal of existing work</u></b>				
3/6/1	Removal of existing fence and dispose off site	m	591		
	<b><u>The following in framed and welded steel fencing including fixing in position complete</u></b>				
3/6/2	1800mm High ClearVu fence or Similar approved including high - strength 2.5m wide mesh panel with a 100mm high and 50mm wide aperture, 70x 44mm H profile and 60 x 60 x 1.6mm hollow square including concrete base and installed according to manufacturers specification	m	712		
3/6/3	1200mm (wide) x 2060mm, Singles leaf pedestrian gate. Gate frame shall be made with 50mm x 50mm x 2mm tube with the Nylofor PVC panels secured to the gate frame using mini spider brackets. The support posts shall be 76mm x 76mm x 2mm with support hinges. The locking posts shall be 76mm x 76mm x 2mm. The gates shall be fit with a barrel bolt for locking the gate. All frames and posts shall be HDG then PES coated to match the fence. All fixator components to be stainless steel Grade 304 per ISO 9223, installed as per manufacturers specification.				
	.	No	1		
	<b>Carried Forward to Summary of Section No. 3</b>			R	
	Bill No. 6 FENCING				

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

<b>Bill No</b>	<b><u>SECTION SUMMARY - EXTERNAL WORKS</u></b>	<b>Page No</b>		<b>Amount</b>	
3/1	BULK EARTHWORKS (PROVISIONAL)	94			
3/2	SEWER RETICULATION (PROVISIONAL)	97			
3/3	WATER RETICULATION (PROVISIONAL)	100			
3/4	WALKWAYS (PROVISIONAL)	103			
3/5	LANDSCAPING	106			
3/6	FENCING	107			
	<b>Carried to Final Summary</b>		R		

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No		Quantity	Rate	Amount	
	<b><u>SECTION NO. 4</u></b>				
	<b><u>BILL NO. 1</u></b>				
	<b><u>ELECTRICAL DISTRIBUTION BOARDS</u></b>				
	<u>Electrical installation according to SANS 10142 and SANS</u>				
	<b><u>Distribution Board DB-GH (Admin Block)</u></b>				
4/1/1	Supply and install flush mounted distribution board complete with frames, sub-frames, chassis, fixtures, fittings, terminations, busbars and wiring with spare space as per specification as well as security detail. Material and labour excluding the items listed hereunder	No	1		
	<b><u>Equipment provided in Distribution Board</u></b>				
4/1/2	16 Ampere S.P. 6 kA	No	6		
4/1/3	20 Ampere S.P. 6 kA	No	6		
4/1/4	32 Ampere D.P. 6 kA	No	2		
4/1/5	63 Ampere S.P. 6 kA	No	2		
4/1/6	63 Ampere D.P. 6 kA	No	2		
	<b><u>Earth Leakage Unit</u></b>				
4/1/7	63 Ampere single phase 6 kA 30 mA	No	2		
	<b><u>Moulded Case circuit breakers</u></b>				
4/1/8	80 Ampere S.P. 10 kA	No	1		
4/1/9	63 Ampere S.P. 6 kA	No	1		
	<b>Carried to Collection</b>			R	
	Bill No. 1 ELECTRICAL DISTRIBUTION BOARD				

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

	<b><u>Class 1 Surge Arrestor</u></b>				
4/1/10	Imax 15kA Surge Arrestor	No	1		
	<b><u>Labels</u></b>				
4/1/11	Danger sign and labels as specified	No	1		
	<b><u>Distribution Board DB-B3 (One Classroom)</u></b>				
4/1/12	Supply and install flush mounted distribution board complete with frames, sub-frames, chassis, fixtures, fittings, terminations, busbars and wiring with spare space as per specification as well as security detail. Material and labour excluding the items listed hereunder	No	1		
	<b><u>Equipment provided in Distribution Board</u></b>				
4/1/13	16 Ampere S.P. 6 kA	No	2		
4/1/14	20 Ampere S.P. 6 kA	No	3		
4/1/15	63 Ampere S.P. 6 kA	No	1		
4/1/16	63 Ampere D.P. 6 kA	No	1		
	<b><u>Earth Leakage Unit</u></b>				
4/1/17	63 Ampere single phase 6 kA 30 mA	No	1		
	<b><u>Class 1 Surge Arrestor</u></b>				
4/1/18	Imax 6kA Surge Arrestor	No	1		
	<b><u>Labels</u></b>				
4/1/19	Danger sign and labels as specified	No	1		
	<b><u>Distribution Board DB-GH (Guard House)</u></b>				
4/1/20	Supply and install flush mounted weatherproof distribution board complete with doors, frames, sub-frames, chassis, fixtures, fittings, terminations, busbars and wiring with spare space as per specification as well as security detail. Material and labour excluding the items listed hereunder	No	1		
	<b>Carried to Collection</b>			R	
	Bill No. 1 ELECTRICAL DISTRIBUTION BOARD				

SSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT

Bill No. 1  
ELECTRICAL DISTRIBUTION BOARD

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

<p>Bill No. 1</p> <p>ELECTRICAL DISTRIBUTION BOARD</p> <p><b><u>COLLECTION</u></b></p> <p>Total Brought Forward from Page No.</p> <p><b>Carried Forward to Summary of Section No. 4</b></p> <p>Bill No. 1</p> <p>ELECTRICAL DISTRIBUTION BOARD</p>	<p><b>Page No</b></p> <p>109</p> <p>110</p> <p>111</p>	<p><b>Amount</b></p>	
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CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT

Item No			Quantity	Rate	Amount	
	<b><u>SECTION NO. 4</u></b>					
	<b><u>BILL NO. 2</u></b>					
	<b><u>LOW VOLTAGE RETICULATION</u></b>					
	<u>Electrical installation according to SANS 10142 and SANS</u>					
	<b><u>Low Voltage Cables</u></b>					
	<b><u>600/1000V grade PVC/PVC/SWA/PVC stranded copper conductor cable (terminations and earth conductors elsewhere measured) Cable laid in trenching (excavations elsewhere measured)</u></b>					
4/2/1	25mm <sup>2</sup> x 4-core	m	120			
4/2/2	16mm <sup>2</sup> x 4-core	m	70			
4/2/3	10mm <sup>2</sup> x 2-core	m	200			
	<b><u>Cable Terminations complete including glands, shrouds, lugs, connections and commissioning</u></b>					
4/2/4	25mm <sup>2</sup> x 4-core	m	2			
4/2/5	16mm <sup>2</sup> x 4-core	No	2			
4/2/6	10mm <sup>2</sup> x 2-core	No	4			
	<b><u>Bare Stranded Copper Earth Wire strapped to Cables (terminations elsewhere measured)</u></b>					
4/2/7	16mm <sup>2</sup>	m	120			
4/2/8	10mm <sup>2</sup>	m	270			
	<b>Carried to Collection</b>			R		
	Bill No. 2					
	LOW VOLTAGE RETICULATION					

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

	<b><u>Bare Stranded Copper Earth Wire Terminations complete including drilling, bolting, lugs, connections and commissioning</u></b>				
4/2/9	16mm <sup>2</sup>	No	2		
4/2/10	10mm <sup>2</sup>	No	4		
	<b><u>EXCAVATIONS</u></b>				
	<b><u>All excavations, back filling and compaction must be done manually using local labour Excavate for cable and sleeve trench including temporary support of sides, keeping excavations dry, backfilling and compacting to the Engineer's specification</u></b>				
4/2/11	Pickable Soil	m3	70		
4/2/12	For Soft Rock	m3	40		
4/2/13	For Hard Rock	m3	20		
	<b><u>CABLE MARKERS</u></b>				
4/2/14	PVC warning marking tape	m	400		
	<b><u>MANHOLES</u></b>				
4/2/15	600 x 600 x 800 mm	No	3		
	<b><u>SLEEVES</u></b>				
4/2/16	50mm dia	m	270		
4/2/17	110mm dia	m	120		
	<b><u>DRAW WIRE</u></b>				
4/2/18	Galvanised 1,6mm dia. draw wire Wall boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes	m	400		
4/2/19	300x300mm Draw box with tamper proof cover	No	2		
	<b>Carried to Collection</b>			R	
	Bill No. 2				
	LOW VOLTAGE RETICULATION				

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

<p>Bill No. 2</p> <p>LOW VOLTAGE RETICULATION</p> <p><b><u>COLLECTION</u></b></p> <p>Total Brought Forward from Page No.</p> <p><b>Carried Forward to Summary of Section No. 4</b></p> <p>Bill No. 2</p> <p>LOW VOLTAGE RETICULATION</p>	<p><b>Page No</b></p> <p>113</p> <p>114</p>	<p><b>Amount</b></p>	
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CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT

Item No			Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>				
	<b><u>BILL NO. 3</u></b>				
	<b><u>NEW ADMINISTRATION BLOCK</u></b>				
	<u>Electrical installation according to SANS 10142 and SANS</u>				
	<b><u>NOTE:Tenderers are advised to study the specification before pricing the bill.(Complete installation : Internal electrical installation)</u></b>				
	<b><u>SMALL POWER AND LIGHTING</u></b>				
	<b><u>Conduit and accessories as specified Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles.</u></b>				
4/3/1	20mm	m	1 200		
4/3/2	25mm	m	100		
	<b><u>Round conduit box as specified placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes</u></b>				
4/3/3	60mm deep	No	50		
	<b>Carried to Collection</b>			R	
	Bill No. 3 ADMIN BLOCK SMALL POWER AND LIGHTING				

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

	<b><u>Wall boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes</u></b>					
4/3/4	100 x 50mm	No	18			
4/3/5	100 x 100mm	No	22			
	<b><u>Expansion joint boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts, bushes and sliding conduit stubs.</u></b>					
4/3/6	300 x 300mm	No	3			
	<b><u>CONDUCTORS</u></b>					
	<b><u>600/1000V grade PVC insulated stranded copper conductors drawn into conduit</u></b>					
4/3/7	2,5mm <sup>2</sup>	m	1 000			
4/3/8	4,0mm <sup>2</sup>	m	800			
	<b><u>Bare stranded copper earth conductors drawn into conduits</u></b>					
4/3/9	2,5mm <sup>2</sup>	m	900			
	<b><u>POWER OUTLETS</u></b>					
	<b><u>Complete with cover plate fixed in flush boxes (boxes elsewhere measured)</u></b>					
	<b><u>Socket Outlets</u></b>					
	<b><u>16 Ampere round 3-pin 250V grade</u></b>					
4/3/10	Single switched socket outlet with Euro socket	No	14			
4/3/11	Double switched socket outlet	No	6			
4/3/12	Double dedicated switched socket outlet	No	1			
	<b>Carried to Collection</b>			R		
	Bill No. 3 ADMIN BLOCK SMALL POWER AND LIGHTING					

SSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT

4/3/13	32A double pole Isolator (weatherproof)	No	1	
	<b><u>Light Switches</u></b>			
4/3/14	16 Ampere 250V grade single lever one way	No	12	
4/3/15	16 Ampere 250V grade single lever two way	No	2	
4/3/16	16 Ampere 250V grade double lever one way	No	1	
	<b><u>WIRE WAYS AND LUMINAIRES</u></b>			
	<b><u>Conduit &amp; accessories as specified Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles</u></b>			
4/3/17	25mm	m	250	
	<b><u>Wall boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes</u></b>			
4/3/18	100 x 100mm	No	8	
	<b><u>Blank Covers</u></b>			
4/3/19	100 x 100mm	m	8	
	<b><u>DRAW WIRE</u></b>			
4/3/20	Galvanised 1,6mm draw wire	m	300	
	<b><u>APPLIANCES</u></b>			
	<b><u>Surface mounted appliance complete</u></b>			
4/3/21	16 Ampere photo cell in an empty luminaire	No	1	
	<b><u>LUMINAIRES</u></b>			
	<b>Carried to Collection</b>			R
	Bill No. 3 ADMIN BLOCK SMALL POWER AND LIGHTING			

**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>			
	<b><u>BILL NO. 4</u></b>			
	<b><u>ONE CLASSROOM BLOCK POWER AND LIGHT</u></b>			
	<b><u>NOTE: Tenderers are advised to study the specification before pricing the bill. (Complete installation : Internal electrical installation)</u></b>			
	<u>Electrical installation according to SANS 10142 and SANS</u>			
	<b><u>SMALL POWER AND LIGHTING</u></b>			
	<b><u>Conduit and accessories as specified Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles.</u></b>			
4/4/1	20mm	m	400	
4/4/2	25mm	m	20	
	<b><u>Round conduit box as specified placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes</u></b>			
4/4/3	60mm deep	No	20	
	<b>Carried to Collection</b>		R	
	Bill No. 4 ONE CLASSROOM BLOCK POWER AND LIGHTING			

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

	<b><u>Wall boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes</u></b>					
4/4/4	100 x 50mm	No	6			
4/4/5	100 x 100mm	No	7			
	<b><u>Expansion joint boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts, bushes and sliding conduit stubs.</u></b>					
4/4/6	300 x 300mm	No	1			
	<b><u>CONDUCTORS</u></b>					
	<b><u>600/1000V grade PVC insulated stranded copper conductors drawn into conduit</u></b>					
4/4/7	2,5mm <sup>2</sup>	m	550			
4/4/8	4,0mm <sup>2</sup>	m	250			
	<b><u>Bare stranded copper earth conductors drawn into conduits</u></b>					
4/4/9	2,5mm <sup>2</sup>	m	400			
	<b><u>POWER OUTLETS</u></b>					
	<b><u>Complete with cover plate fixed in flush boxes (boxes elsewhere measured)</u></b>					
	<b><u>Socket Outlets</u></b>					
	<b><u>16 Ampere round 3-pin 250V grade</u></b>					
4/4/10	Single switched socket outlet with Euro socket	No	5			
4/4/11	Double switched socket outlet	No	1			
	<b>Carried to Collection</b>			R		
	Bill No. 4					
	ONE CLASSROOM BLOCK POWER AND LIGHTING					

**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

	<b><u>Light Switches</u></b>					
4/4/12	16 Ampere 250V grade single lever one way	No	2			
4/4/13	16 Ampere 250V grade single lever two way	No	2			
4/4/14	16 Ampere 250V grade double lever one way	No	2			
	<b><u>APPLIANCES</u></b>					
	<b><u>Surface mounted appliance complete</u></b>					
4/4/15	16 Ampere photo cell in an empty luminaire	No	1			
	<b><u>LUMINAIRES</u></b>					
	<b><u>Installed and mounted to round boxes in brickwork or ceiling including all fixings, brackets, supports, connectors, connections and lamps</u></b>					
4/4/16	Type C - 15W LED, round bulkhead luminaire complete with polycarbonate diffuser and cool white lamp. IP65	No	9			
4/4/17	Type F1 - 1x18W T8 LED, 1200mm surface mounted open channel luminaire complete with cool white lamp.	No	2			
4/4/18	Type F2 - 2x18W T8 LED, 1200mm surface mounted open channel luminaire complete with cool white lamps.	No	1			
4/4/19	Type F4 - 2x22W T8 LED, 1500mm surface mounted open channel luminaire complete with cool white lamps.	No	6			
4/4/20	Type V - 2x22W T8 LED, 1500mm surface mounted luminaire complete with cool white lamps and vapourproof diffuser.	No	1			
	<b><u>TESTING AND COMMISSIONING</u></b>					
	<b><u>Test and commission of the complete</u></b>					
4/4/21	Electrical installation		Item			
	<b>Carried to Collection</b>			R		
	Bill No. 4 ONE CLASSROOM BLOCK POWER AND LIGHTING					

**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**SSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No	Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b>			
<b><u>BILL NO. 5</u></b>			
<b><u>GUARD HOUSE SMALL POWER AND LIGHTING</u></b>			
<b><u>NEW GUARD HOUSE</u></b>			
<b><u>Tenderers are advised to study the specification before pricing the bill.(Complete installation : Internal Electrical Installation)</u></b>			
<u>Electrical installation according to SANS 10142 and SANS</u>			
<b><u>SMALL POWER AND LIGHTING</u></b>			
<b><u>Conduit and accessories as specified Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles.</u></b>			
4/5/1	20mm	m	120
<b><u>Round conduit box as specified placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes</u></b>			
4/5/2	60mm deep	No	7
<b>Carried to Collection</b>			R
Bill No. 5 GUARD HOUSE SMALL POWER AND LIGHTING			

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

	<b><u>Wall boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes</u></b>					
4/5/3	100 x 50mm	No	2			
4/5/4	100 x 100mm	No	2			
	<b><u>Conductors</u></b>					
	<b><u>600/1000V grade PVC insulated stranded copper conductors drawn into conduit</u></b>					
4/5/5	2,5mm <sup>2</sup>	m	140			
4/5/6	4,0mm <sup>2</sup>	m	60			
	<b><u>Bare stranded copper earth conductors drawn into conduits</u></b>					
4/5/7	2,5mm <sup>2</sup>	m	100			
	<b><u>POWER OUTLETS</u></b>					
	<b><u>Complete with cover plate fixed in flush boxes (boxes elsewhere measured)</u></b>					
	<b><u>Socket Outlets</u></b>					
	<b><u>16 Ampere round 3-pin 250V grade</u></b>					
4/5/8	Single switched socket outlet with 3-pin euro socket	No	1			
4/5/9	Double switched socket outlet	No	1			
	<b><u>Light Switches</u></b>					
4/5/10	16 Ampere 250V grade single lever one way	No	2			
	<b><u>APPLIANCES</u></b>					
	<b><u>Surface mounted appliance complete</u></b>					
4/5/11	16 Ampere photo cell in an empty luminaire	No	1			
	<b>Carried to Collection</b>			R		
	Bill No. 5					
	GUARD HOUSE SMALL POWER AND LIGHTING					

**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No		Quantity	Rate	Amount	
	<b><u>SECTION NO. 4</u></b>				
	<b><u>BILL NO. 6</u></b>				
	<b><u>PROVISIONAL SUMS</u></b>				
	<u>Electrical installation according to SANS 10142 and SANS</u>				
4/6/1	Earthing and Lightning Protection System	Item		30 000,00	
4/6/2	Add profit & attendance for above item		SUM		
4/6/3	Modification of existing Block-A DB	Item		5 000,00	
4/6/4	Add profit & attendance for above item		SUM		
4/6/5	Floodlights	Item		10 000,00	
4/6/6	Add profit & attendance for above item		SUM		
4/6/7	Bell and Alarm System	Item		22 500,00	
4/6/8	Add profit & attendance for above item		SUM		
4/6/9	Power Supply Upgrade	Item		200 000,00	
4/6/10	Add profit & attendance for above item		SUM		
	<b>Carried Forward to Summary of Section No. 4</b>		R		
	Bill No. 6				
	PROVISIONAL SUMS				

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Bill No	<u>SECTION SUMMARY - ELECTRICAL</u>	Page No		Amount	
4/1	ELECTRICAL DISTRIBUTION BOARD	112			
4/2	LOW VOLTAGE RETICULATION	115			
4/3	ADMIN BLOCK SMALL POWER AND LIGHTING	120			
4/4	ONE CLASSROOM BLOCK POWER AND LIGHTING	124			
4/5	GUARD HOUSE SMALL POWER AND LIGHTING	128			
4/6	PROVISIONAL SUMS	129			
	<b>Carried to Final Summary</b>		R		

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No		Quantity	Rate	Amount	
	<b><u>SECTION NO. 5</u></b>				
	<b><u>BILL NO. 1</u></b>				
	<b><u>FIRE AND DIRECTIONAL SIGNAGE</u></b>				
	<b><u>Photo luminescent fire and directional signage in multiples of 190 x 190mm as SANS 1186 - 1&amp;5 photo luminescent, installed in accordance with SANS 10400 and framed with standard aluminium moulding and mounted with concealed screws to brickwork or concrete.</u></b>				
5/1/1	Directional signage type E1.	No	3		
5/1/2	Directional signage type E2	No	3		
5/1/3	Directional signage type E3.	No	14		
5/1/4	Fire signage type F4.	No	9		
5/1/5	Fire signage type F13	No	2		
5/1/6	Fire signage type F49	No	1		
	<b><u>FIRE APPLIANCES ETC.</u></b>				
5/1/7	"Chubb" hose reel complete with control valve, 30m length of 20mm red reinforced hose, nozzlecock and bracket, all mounted on strongly constructed wall bracket complete with bolts grouted in and including mortices in wall and joint to steel pipes	No	2		
5/1/8	"Chubb" 4.5kg DCP fire extinguisher on and including hardwood backboard plugged, screwed and plugged to wall.	No	12		
5/1/9	"Chubb" 5kg CO2 fire extinguisher on and including hardwood backboard plugged, screwed and plugged to wall.	No	2		
	<b>Carried to Collection</b>			R	
	Bill No. 1 FIRE PROTECTION				

**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

<p>Bill No. 1</p> <p>FIRE PROTECTION</p> <p><b><u>COLLECTION</u></b></p> <p>Total Brought Forward from Page No.</p> <p><b>Carried Forward to Summary of Section No. 5</b></p> <p>Bill No. 1</p> <p>FIRE PROTECTION</p>	<p><b>Page No</b></p> <p>131</p> <p>132</p>	<p><b>Amount</b></p>	
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**SSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Bill No	<u>SECTION SUMMARY - MECHANICAL INSTALLATION</u>	Page No		Amount	
5/1	FIRE PROTECTION	133			
5/2	PROVISIONAL SUMS	134			
	<b>Carried to Final Summary</b>		R		

**CONSTRUCTION OF 3 CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

Item No		Quantity	Rate	Amount	
	<b><u>SECTION 6</u></b>				
	<b><u>PROVISIONAL SUMS</u></b>				
	1.The following sums and amounts are NET.				
	3. Unless a specific percentage mark-up for Attendance is indicated in a rate column, the amount priced by the Contractor for Attendance against each Provisional Sum shall be deemed to be the Lump Sum and shall not be adjusted unless the scope of the sub contract varies significantly.				
	4. Provisional Sums contained here-in may be omitted or reduced at the employer's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omissions or any discount, or percentage relating to Provisional Sums or PC amounts or any loss of profit related thereto.				
	<b><u>FIXED FURNITURE, LOOSE FURNITURE AND JOINERY FITTINGS</u></b>				
6/1/1	Provide the sum of R460 000.00 (Four Hundred and Sixty Thousand Rand) for fixed furniture, loose furniture and joinery fittings installed complete.	Item		460 000.00	
6/1/2	Profit on above item	Item			
6/1/3	Attendance on ditto	Item			
	<b><u>JUNGLE GYM</u></b>				
6/1/4	Provide the sum of R50 000.00 (Fifty Thousand Rand) for jungle gym installed complete.	Item		50 000.00	
6/1/5	Profit on above item	Item			
6/1/6	Attendance on ditto	Item			
	<b>Carried to Collection</b>		R		
	Bill No. 1 PROVISIONAL SUMS				



**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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**CLASSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT**

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SSROOMS, ADMINISTRATION  
AND GUARD HOUSE  
AT THIPE PRIMARY SCHOOL  
IDT

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