	Quantity	Rate	Amount
SECTION NO 1			
BILL NO. 1			
PRELIMINARIES			
BUILDING AGREEMENT AND PRELIMINARIES			
The JBCC Principal Building Agreement (March 2014 Edition 6.1) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described			
The JBCC Principal Building Agreement contract data form an integral part of this agreement			
The ASAQS Preliminaries (March 2014 edition) published by the Association of South African Quantity Surveyors for use with the JBCC Principal Building Agreement shall be deemed to be incorporated in these bills of quantities			
The contractor is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause			
The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this agreement such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the abovementioned documents			
Where any item is not relevant to this agreement such item is marked N/A (signifying "not applicable")			
Preambles for Trades			
The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained			
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Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the Model Preambles		
The contractor's prices for all items throughout these bills of quantities shall take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles		
Pricing of Preliminaries		
Should the contractor select Option A in terms of clause 26.9.4 of the contract data for the purpose of adjustment of these preliminaries , the amount entered into the amount column in these preliminaries is to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)		
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SEC	CTION A: PRINCIPAL BUILDING AGREEMENT			
Inter	rpretation (A1-A7)			
Clau	se 1.0 - Definitions and interpretation			
Prici	ing of bills of quantities			
conn state unloa and f meas meas temp impo	contractor is to allow opposite each item for all costs in nection therewith. All prices to include, unless otherwise ed, for all materials, fabrication, conveyance and delivery, ading, storing, unpacking, hoisting, labour, setting, fitting fixing in position, cutting and waste (except where to be sured in accordance with the standard system of surement), patterns, models and templates, plant, porary works, returning of packaging, duties, taxes, establishment charges, overheads, profit and all other pations arising out of the agreement			
agair claim	s left unpriced will be deemed to be covered in prices not other items throughout these bills of quantities and no no for any extras arising out of the contractor's omission to any item will be entertained			
shall	es for all plant, temporary works, services and other items include for the supply, maintenance, operating cost and sequent removal and making good as necessary			
Lega	al status of contractor			
	e contractor constitutes a joint venture consortium or other corporated grouping of two or more persons then:			
1.	These persons are deemed to be jointly and severally liable to the employer for the performance of this agreement			
2.	These persons shall notify the employer of their leader who has authority to bind the contractor and each of these persons			
3.	The contractor shall not alter its composition or legal status without the prior written consent of the employer			
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1/1/2	Clause 2.0 - Law, regulations and notices		
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Health and safety		
Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works . The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specification [2.1]		
The contractor shall:		
Comply with the health and safety specification for the works		
Prepare and agree with the health and safety consultant the health and safety plan for the works		
Co-operate with the health and safety consultant in all respects		
4. Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification		
5. Conform to the conditions contained in the employer's safety specification		
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	Additional Preliminary Items:			
	The Contractor must supply the owner with a complete and comprehensive Health and Safety plan in terms of the said latest acts of parliament and all relevant regulations and is responsible for all Health and Safety issues, procedures, processes, measures and responsibilities. In this regard the following must strictly be addressed but the onus and responsibility is not limited to this list:			
	 Safety of all machinery Hard hats by all people on site Dust and fume masks Safety belts and lines Safety of scaffolding, hoarding, screens, fences, etc. Safety of gangways, planks, etc. Warning signs and safety barriers Safety reports to the principal agent and the client Traffic safety on site and to and from the site Complete Health and Safety of the public Ear plugs and sound protection The Contractor must adhere to and manage all aspects specifically shown on the parties Health and Safety assessment and the general and specific Health and Safety specification. Should the specification be more than that is required by regulation a fair price for this extra work based on the contract terms shall be agreed upon and be payable The Contractor must appoint a Health and Safety official as required by law The Contractor shall keep an up to date Health and Safety file on site All Sub-contractors must adhere to the above and their responsibilities must be co-ordinated and supervised by the Contractor A continuous Health and Safety assessment must be carried out by the Contractor in consultation with the 			
4 /4 /0	Principal Agent F: V:	ltana		
1/1/3		Item		
1/1/4	Clause 3.0 - Offer and acceptance			
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1/1/5	Clause 4.0 - Assignment and cession			
	F: T:	Item		
1/1/6	Clause 5.0 - Contract documents			
	Value Added Tax			
	Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT)			
	Contract drawings			
	The contract drawings are as listed in the contract data			
	Priced document as specification			
	The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any [5.3]			
	F: V: T:	Item		
1/1/7	Clause 6.0 - Employer's agents			
	Delegated authority			
	The authority of the principal agent to perform duties for specific aspects of the works is delegated to the agents as follows [6.2]:			
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1. Arch	itect		
function from th	chitect is responsible for the architectural design, nal design and quality inspection. Without derogating e generality thereof the architect will perform the ng specific functions and duties:		
1.1	Give opinion on aspects of the works which are not in accordance with the agreement		
1.2	Supply the specified number of drawings		
1.3	Issue instructions if bills of quantities is to be used as a specification		
1.4 elemen	Be responsible for primary co-ordination of design		
1.5	Receive through the contractor and accept design documentation undertaken by subcontractors		
1.6	Issue instructions to the contractor regarding:		
1.6.1	Alteration to design, quality or quantity of the works provided that such instructions shall not substantially change the scope of the works		
1.6.2	Removal of any materials and goods from the site and the substitution of any materials and goods therefor		
1.6.3	Removal or re-execution of any work		
1.6.4	Opening up of work for inspection		
1.6.5	Testing of work and materials and goods		
1.6.6	Protection of the works		
1.6.7 works	Making good physical loss and repairing damage to the		
1.6.8	Lists for practical completion and final completion		
1.6.9 bylaws	Compliance with Acts of Parliament, regulations and		
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1.7	Witness the handing over to the contractor of pegs, beacons and datum levels			
1.8	Define levels and provide the contractor with the necessary information to set out the works			
1.9	Acceptance of design by subcontractors			
1.10	Inspect the works from time to time and give the contractor interpretation and guidance on the standard and state of completion required for practical completion			
1.11	Inspect the works for practical completion			
1.12	Issue the list for practical completion and re-inspect upon request of the contractor			
1.13	Issue the certificate of practical completion			
1.14 period	Inspect the works at the end of the defects liability			
1.15	Issue the list for final completion and re-inspect upon request of the contractor			
1.16	Issue the certificate of final completion			
2. <u>Quar</u>	ntity surveyor			
valuation surveying the gen	antity surveyor is responsible for all measurements, ons, financial assessments and all other quantity ong and cost control functions. Without derogating from erality thereof, the quantity surveyor will perform the g specific functions and duties:			
2.1	Consult with the contractor in correction of rates or errors and discrepancies			
2.2	Complete the contract data			
2.3 quantit	Supply the specified number of unpriced bills of ies			
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2.4	Identify in the contract data any changes to the standard JBCC documentation and determine any loss and expense to the contractor caused by non-disclosure thereof		
2.5	Deal with amounts paid by the contractor to authorities having jurisdiction over the works		
2.6 damage	Measure and value the making good of physical loss or e		
2.7	Issue instructions to the contractor regarding:		
2.7.1	Rectification of discrepancies and errors in description or omissions in contract documents		
2.7.2	Furnishing proof of payment to subcontractors		
2.7.3 contrac	Budgetary allowances and work executed by the ctor		
2.7.4	Contingency and other monetary provisions included in the contract sum		
2.8 docume	Prepare nominated and/or selected subcontract tender ents		
2.9	Receive proof from the contractor that the contractor's payment obligations have been met in respect of subcontractors		
2.10 directly	Act on employer's instructions to pay subcontractors		
2.11	Adjustment of the contract value in respect of a revision to the date of practical completion		
2.12	Calculate penalties for non-completion upon receipt of the relevant information from the principal agent		
2.13	Valuation of payment claims for payment certificates		
2.14 due to t	Calculate default and compensatory interest (if any) the parties		
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2.15	With each valuation for payment issue:		
2.15.1	A statement to the contractor and each subcontractor showing the amount certified for the relevant subcontractor		
2.15.2	A statement to the employer and contractor showing the total amount certified		
2.15.3	A recovery statement		
2.16 value	Determine the value of adjustments to the contract		
2.17	Receive from the contractor details of expense and loss claims and assess such claims		
2.18 contra	Prepare the final account and submit to the actor		
3. <u>Civil</u>	and structural engineer		
civil an Withou structu and du	vil and structural engineer is responsible for all aspects of d structural engineering design and quality inspection. It derogating from the generality thereof, the civil and ral engineer will perform the following specific functions ities in respect of the civil and structural engineering s of the works:		
3.1	Give opinion on aspects of the works which are not in accordance with the agreement		
3.2	Supply the specified number of drawings		
3.3 a spec	Issue instructions if bills of quantities is to be used as ification		
3.4 by sub	Receive and accept design documentation undertaken acontractors		
3.5	Issue instructions to the contractor regarding:		
3.5.1	Alteration to design, quality or quantity of the works provided that such instructions shall not substantially change the scope of the works		
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3.5.2	Removal of any materials and goods from the site and the substitution of any materials and goods therefor		
3.5.3	Removal or re-execution of any work		
3.5.4	Opening up of work for inspection		
3.5.5	Testing of work and materials and goods		
3.5.6	Protection of the works		
3.5.7 works	Making good physical loss and repairing damage to the		
3.5.8 bylaws	Compliance with Acts of Parliament, regulations and		
3.6	Define levels and provide the contractor with the necessary information to set out the works		
3.7	Acceptance of design by subcontractors		
3.8	Inspect the works from time to time and give the contractor interpretation and guidance on the standard and state of completion required for practical completion		
3.9	Inspect the works for practical completion		
3.10	Issue the list for practical completion and re-inspect upon request of the contractor		
3.11 period	Inspect the works at the end of the defects liability		
3.12	Issue the list for final completion and re-inspect upon request of the contractor		
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4. <u>Mec</u>	hanical engineer		
mecha genera followir	echanical engineer is responsible for all the aspects of nical engineering design. Without derogating from the lity thereof the mechanical engineer will perform the ng specific functions and duties in respect of the nical engineering aspects of the works:		
4.1	Give opinion on aspects of the works which are not in accordance with the agreement		
4.2	Supply the specified number of drawings		
4.3 a spec	Issue instructions if bills of quantities is to be used as ification		
4.4 by sub	Receive and accept design documentation undertaken contractors		
4.5	Issue instructions to the contractor regarding:		
4.5.1	Alteration to design, quality or quantity of the works provided that such instructions shall not susbstantially change the scope of the works		
4.5.2	Removal of any materials and goods from the site and the substitution of any materials and goods therefor		
4.5.3	Removal or re-execution of any work		1
4.5.4	Opening up of work for inspection		1
4.5.5	Testing of work and materials and goods		
4.5.6	Protection of the works		
4.5.7 works	Making good physical loss and repairing damage to the		
4.5.8 bylaws	Compliance with Acts of Parliament, regulations and		
4.6 to set of	Provide the contractor with the necessary information out the works		
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4.7	Acceptance of design by subcontractors		
4.8	Inspect the works from time to time and give the contractor interpretation and guidance on the standard and state of completion required for practical completion		
4.9	Inspect the works for practical completion		
4.10	Issue the list for practical completion and re-inspect upon request of the contractor		
4.11 period	Inspect the works at the end of the defects liability		
4.12	Issue the list for final completion and re-inspect upon request of the contractor		
5. <u>Elec</u>	etrical engineer		
electric deroga will per	ectrical engineer is responsible for all aspects of cal engineering design and quality inspection. Without ating from the generality thereof the electrical engineer rform the following specific functions and duties in ct of the electrical engineering aspects of the works:		
5.1	Give opinion of aspects of the works which are not in accordance with the agreement		
5.2	Supply the specified number of drawings		
5.3 a spec	Issue instructions if bills of quantities is to be used as diffication		
5.4 by sub	Receive and accept design documentation undertaken ocontractors		
5.5	Issue instructions to the contractor regarding:		
5.5.1	Alteration to design, quality or quantity of the works provided that such instructions shall not substantially change the scope of the works		
5.5.2	Removal of any materials and goods from the site and the substitution of any materials and goods therefor		
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5.5.3	Removal or re-execution of any work		
5.5.4	Opening up of work for inspection		
5.5.5	Testing of work and materials and goods		
5.5.6	Protection of the works		
5.5.7 works	Making good physical loss and repairing damage to the		
5.5.8 bylaws	Compliance with Acts of Parliament, regulations and		
5.6 to set o	Provide the contractor with the necessary information out the works		
5.7	Acceptance of design by subcontractors		
5.8	Inspect the works from time to time and give the contractor interpretation and guidance on the standard and state of completion required for practical completion		
5.9	Inspect the works for practical completion		
5.10	Issue the list for practical completion and re-inspect upon request of the contractor		
5.11 period	Inspect the works at the end of the defects liability		
5.12	Issue the list for final completion and re-inspect upon request of the contractor		
6. <u>Wet</u>	services engineer		
wet ser deroga engine	et services engineer is responsible for all the aspects of crices engineering design and quality inspection. Without ting from the generality thereof the wet services er will perform the following specific functions and duties ect of the wet services aspects of the works:		
6.1	Give opinion on aspects of the works which are not in accordance with the agreement		
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6.2	Supply the specified number of drawings		
6.3 specific	Issue instructions if bills of quantities is to be used as ation		
6.4 by sub	Receive and accept design documentation undertaken contractors		
6.5	Issue instructions to the contractor regarding:		
6.5.1	Alteration to design, quality or quantity of the works provided that such instructions shall not substantially change the scope of the works		
6.5.2	Removal of any materials and goods from the site and the substitution of any materials and goods therefor		
6.5.3	Removal or re-execution of any work		
6.5.4	Opening up of work for inspection		
6.5.5	Testing of work and materials and goods		
6.5.6	Protection of the works		
6.5.7 works	Making good physical loss and repairing damage to the		
6.5.8 bylaws	Compliance with Acts of Parliament, regulations and		
6.6 to set o	Provide the contractor with the necessary information ut the works		
6.7	Acceptance of design by subcontractors		
6.8	Inspect the works from time to time and give the contractor interpretation and guidance on the standard and state of completion required for practical completion		
6.9	Inspect the works for practical completion		
6.10	Issue the list for practical completion and re-inspect upon request of the contractor		
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6.11 period	Inspect the works at the end of the defects liability		
6.12	Issue the list for final completion and re-inspect upon request of the contractor		
7. <u>Fire</u>	consultant		
fire des genera specific	e consultant is responsible for all the aspects of rational sign and quality inspection. Without derogating from the lity thereof the fire consultant will perform the following c functions and duties in respect of the rational fire aspects of the works:		
7.1	Give opinion on aspects of the works which are not in accordance with the agreement		
7.2	Supply the specified number of drawings		
7.3 specific	Issue instructions if bills of quantities is to be used as cation		
7.4 by sub	Receive and accept design documentation undertaken contractors		
7.5	Issue instructions to the contractor regarding:		
7.5.1	Alteration to design, quality or quantity of the works provided that such instructions shall not substantially change the scope of the works		
7.5.2	Removal of any materials and goods from the site and the substitution of any materials and goods therefor		
7.5.3	Removal or re-execution of any work		
7.5.4	Opening up of work for inspection		
7.5.5	Testing of work and materials and goods		
7.5.6	Protection of the works		
7.5.7 works	Making good physical loss and repairing damage to the		
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7.5.8 bylaws	Compliance with Acts of Parliament, regulations and				
7.6 to set o	Provide the contractor with the necessary information out the works				
7.7	Acceptance of design by subcontractors				
7.8	Inspect the works from time to time and give the contractor interpretation and guidance on the standard and state of completion required for practical completion				
7.9	Inspect the works for practical completion				
7.10	Issue the list for practical completion and re-inspect upon request of the contractor				
7.11 period	Inspect the works at the end of the defects liability				
7.12	Issue the list for final completion and re-inspect upon request of the contractor				
8. <u>Heal</u>	Ith and safety consultant				
of heal thereof followin	alth and safety consultant is responsible for all aspects th and safety. Without derogating from the generality the health and safety consultant will perform the alth specific functions and duties in respect of the health fety aspects of the works:				
8.1	Act as the client's (employer's) agent in terms of Construction Regulations issued in terms of the Occupational Health and Safety Act,1993				
8.2 for the	Prepare and update the health and safety specification works				
8.3 for the	Agree with the contractor the health and safety plan works				
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	8.4 Carry out regular audits to ensure adherence to the safety plan and compliance with the Act and Regulations			
	F: V: T:	Item		
1/1/8	Clause 7.0 - Design responsibility			
	F: V: T:	Item		
	Insurance and security (A8-A11)			
1/1/9	Clause 8.0 - Works risk			
	F: V: T:	Item		
1/1/10	Clause 9.0 - Indemnities			
	F: V: T:	Item		
1/1/11	Clause 10.0 - Insurances			
	F: V: T:	Item		
1/1/12	Clause 11.0 - Security			
	Security for payment			
	The employer shall not provide to the contractor security for payment. [11.4.1,11.10]			
	The Employer shall not provide a payment guarantee however the Contractor shall waive his lien or right of continuous possesion			
	Extension of waiver of lien			
	The contractor shall ensure that a waiver of lien is included in all subcontracts and that the works executed on the site are kept free of all liens and other encumbrances at all times [11.10]			
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	Execution (A12 - A17)		
1/1/13	Clause 12.0 - Duties of the parties		
1/1/14	Clause 12.1.2 - Existing Premises (N/A)		
	See Contract Data. Reference as [12.1.2]		
	Clause 12.1.3 - Relevant natural features		
	Trees may only be cut on approval by the Principal Agent		
	Clause 12.1.3 - Known services		
	Known services will be pointed out but the contractor must first contact the principal agent before any interference is allowed.		
	Clause 12.1.4 - Site Restriction		
	See Contract Data. Reference as [12.1.4]		
	Clause 12.1.5 - Access to Services		
	See Contract Data. Reference as [12.1.5]		
	Clause 12.2.15 - Enclosure of the works		
	The contractor shall erect, maintain and remove at completion hoardings with gantries, fans, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof, all for the protection of the public and others [12.2.15]		
	Clause 12.2.18 - Office accommodation		
	The contractor shall erect, maintain and remove at completion airconditioned office accommodation with suitable tables and chairs for meetings to be held on the site . Such offices shall be kept clean and fit for use at all times [12.2.18]		
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	Clause 12.2.18 - Notice board			
	The contractor shall erect in a position approved by the principal agent, maintain and remove at completion a notice board as recommended by the South African Institute of Architects listing the names and logos of the employer, the contractor and the professional consultants. No subcontractor or supplier notice boards may be erected [12.2.18]			
	Geotechnical investigation report			
	For the results, a geotechnical investigation report is attached to these Bills of Quantities			
	F: V: T:	Item		
1/1/15	Clause 13.0 - Setting out			
	Encroachments			
	The contractor shall notify the principal agent if any encroachment of adjoining foundations, buildings, structures, pavements, boundaries, services, etc exist in order that the necessary arrangements may be made for the rectification of any such encroachments [13.2.1]			
	F: V: T:	Item		
1/1/16	Clause 14.0 - Nominated subcontractors			
	F: T:	Item		
1/1/17	Clause 15.0 - Selected subcontractors			
	F: V: T:	Item		
1/1/18	Clause 16.0 - Direct contractors			
	Attendance on direct contractors			
	In respect of direct contractors the contractor shall:			
	 Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials 			
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	Allow the use of personnel welfare facilities, where provided			
	3. Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation			
	Permit the direct contractor to use erected scaffolding, hoisting facilities, etc provided by the contractor , in common with others having the like right while it remains erected on the site [16.1]			
	F: V: T:	Item		
1/1/19	Clause 17.0 - Contract instructions			
	Site instructions			
	Instructions issued on site are to be recorded in a site instruction book which is to be supplied and maintained on site by the contractor			
	F: T:	Item		
	Completion (A18 - A24)			
1/1/20	Clause 18.0 - Interim completion			
	F: T: T:	Item		
1/1/21	Clause 19.0 - Practical completion			
	F: T:	Item		
1/1/22	Clause 20.0 - Sectional completion (N/A)			
	F: V: T:	Item		
1/1/23	Clause 21.0 - Defects liability period and final completion			
	F: V: T:	Item		
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1/1/24	Clause 22.0 - Latent defects liability period			ı
	F: V: T:	Item		ı
1/1/25	Clause 23.0 - Revision of date for practical completion			ı
	Substitution of materials and goods			ı
	The removal or substitution of any materials and goods which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [17.1.8, 23.1 & 2]			
	F: V: T:	Item		ı
1/1/26	Clause 24.0 - Penalty for late or non-completion			ı
	F: T:	Item		l
	Payment (A25 - A27)			ı
1/1/27	Clause 25.0 - Payment			l
	Payment Days			ı
	The Payment Certificates will be paid within 21 days			ı
	Materials and goods stored off site			ı
	The inclusion of materials and goods stored off site in the amount authorised for payment shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor , of an approved security [25.3.2]			
	Fluctuations in costs			l
	All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor [25.3.4]			
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	Brought Forward		R	
	Prices submitted			
	Where prices are submitted by the contractor or subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the agreement and notwithstanding the fact that such prices may be used in an interim payment certificate , there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the certificate of final completion , it shall be in writing			
	F: V: T:	Item		
1/1/28	Clause 26.0 - Adjustment of the contract value and final account			
	Tenant installations'/users' requirements delayed			
	There is a possibility that certain works related to tenant installations'/users' requirements may have to be delayed and may consequently not be executed prior to practical completion			
	The employer reserves the right to omit such work without compensation to the contractor for loss of profit or any other loss which the contractor may suffer as a result of such omission			
	Should the contractor be instructed to do so he shall execute this work under the conditions pertaining to this agreement on the basis that a separate amount for preliminaries appurtenant to this work (if applicable) is agreed to between the contractor and the principal agent and on condition that instruction to proceed with such work is given to him within a period of three (3) calendar months after the date of practical completion of the works			
	Carried Forward Section No. 1 Preliminaries Bill No. 1 Preliminaries		R	

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

		Brought Forward		R	
	Substi	tute Provisions			
	Refer t	o post tender Provisions			
	Contra	act data - Principal Building Agreement			
1/1/35	The sc	hedule: Information (Contract Data)			
	F:	V: T:	Item		
	2. CON	NTRACT AND SITE INFORMATION			
	2.1.	The law applicable to agreement			
		(Country/State) [RSA]			
	2.2.	Works Identification:			
		This project comprises of additions to existing school.			
	2.3	Site Description:			
		The site is situated in Tlotlanang School Coordinates:			
	2.4	Date on which possession of the site is intended to be given:			
		Appointment of Contractor To be determined			
		Possession of site by Contractor To be determined			
	2.5	Period for the commencement of the works after the Contractor takes possession of the site			
		(working day) [5]			
	Section Prelimi Bill No. Prelimi Tlotlar	inaries . 1		R	

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

		Brought Forward	R
2.11.1 Water	Option A Option B Option C	Contractor - his cost Employer - free of charge Employer - metered (
contractor cost)		,	
[A]	l	(A,B or C)	
2.11.2 Electricity	Option A Option B Option C	Contractor - his cost Employer - free of charge Employer - metered (
contractor cost)			
[A]	l	(A,B or C)	
2.11.3 Telecom	Option A Option B Option C	Contractor - his cost Employer - free of charge Employer - metered (
contractor cost)		(4.5	
[A]	I	(A,B or C)	
2.11.4 Ablutions	Option A Option B	Contractor - his cost Employer - Free of charge	
[A]	l	(A or B)	
Place and position owith the principal age		st be done in accordance ns.	
Where "yes" the spe below or detailed in t	cific re the contract d lants that are t Agent (rer	s and shrubs is required. equirements are described locuments o be removed will be pointed moval elsewhere included in	
	[YES]	(yes/no)	
Section No. 1 Preliminaries Bill No. 1 Preliminaries		Carried Forward	R
Tlotlanang Combin	ed School		

		Brought Forward	
3. INS	URANCES		
3.1	Contract works insurance	ce to be effected by	
	(Employer/Contractor)	[CONTRACTOR]	
	For the sum of: With a deductible of:	CONTRACT SUM PLUS 20% AS PER POLICY	
3.2	Supplementary/special The Employer is respon	insurance is required. sible for effecting this insurance	
	(Employer/Contractor)	[CONTRACTOR]	
	For the sum of: With a deductible of:		
3.3	Public liability insurance	to be effected by	
	(Employer/Con	tractor) [CONTRACTOR]	
	For the sum of: With a deductible of:	R5,000,000.00	
activiti anybo	es as no liability will be tal dy else for the negligent a	all the risks related to his own ken by the Employer or actions of the Contractor. All by the Contractor to secure the	
3.4	Support insurance to be	e effected by	
	(Employer/Contactor)	[NOT APPLICABLE]	
	For the sum of With a deductible of	R R	
3.5	Special insurance to be	effected by	
	(Employer/Contractor)	[NOT APPLICABLE]	
	For the sum of With a deductible of	R R	
Prelim Bill No Prelim	n No. 1 ninaries o. 1 ninaries nang Combined School	Carried Forward	

	Brought Forward	R	
4. PR	RACTICAL COMPLETION AND PENALTIES		
4.1	Intended date of practical completion and the penalty per calender day for the works as a whole:		
	Date: 15 months		
	Penalty amount per calander day: R 6 000.00		
4.2 per ca	Intended date of practical completion and the penalty alendar day for work in sections:		
	Section 1: NOT APPLICABLE Penalty amount per calendar day: N/A		
5. DC	OCUMENTS AND GENERAL		
5.1	Number of construction document copies to be supplied free of charge		
	(no of)		
5.2 of mat	The priced document may be used as a specification terials and goods and work methods		
	(yes/no) [NO]		
5.3	The Contractor shall provide a schedule of rates		
	(yes/no) [NO]		
	(Addendum No) []		
5.4	Details of changes made to the provisions of JBCC standard documentation as contained herein		
	(yes/no) [YES]		
	(Addendum No) [A]		
	on No. 1	R	
Bill No			
	nang Combined School		

Brought Forward	R	
5.5 On acceptance of the Tender, the Bills of Quantities/lump sum document is to be submitted within the stated working days - forms part of Tender		
(No of)		ĺ
5.6 Work to be undertaken by direct contractors		l
(yes/no) [NO]		
(Addendum No) []		1
5.7 Manuals related to the works must be submitted to the Principal Agent as listed below: To be given during the construction period: Co-ordinated by the Principal Agent		
5.8 Interim payment certificate to be issued by		1
(Date of month)		
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Carried Forward Section No. 1 Preliminaries Bill No. 1 Preliminaries Tlotlanang Combined School	R	
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	Brought Forward		R	
	SECTION B - PRELIMINARIES: MARCH 2014: PUBLISHED BY THE ASAQS			
	Interpretation (B1)			
1/1/36	Clause 1.1 - Definitions			
	F: V: T:	Item		
1/1/37	Clause 1.2 - Interpretation			
	F: V: T:	Item		
	Documents (B2)			
1/1/38	Clause 2.1 - Checking of documents			
	F: V: T:	Item		
1/1/39	Clause 2.2 - Provisional bills of quantities			
	Multiple procurement			
	These bills of quantities are in multiple procurement format ie the "wet trades" - earthworks, concrete, formwork and reinforcement, precast concrete, masonry, waterproofing and sub-surface drainage - are provisionally measured and the subsequent trades are budgetary allowances and/or provisional sums			
	F: V: T:	Item		
1/1/40	Clause 2.3 - Availability of construction information			
	Budgetary allowances and provisional sums			
	The budgetary allowances and/or provisional sums allocated for subsequent trades included in this agreement will be separately procured, based on multiple procurement of subcontractors during the construction period			
	F: V: T:	Item		
	Carried Forward Section No. 1 Preliminaries Bill No. 1 Preliminaries Tlotlanang Combined School		R	

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

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

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

	E	Brought Forward	R	
10.1 - Provisional Bills	s of Quantities [clause	2.2]		
The quantities	are provisional (yes/i [YES]	no)		
10.2 - Availability of c	onstruction documentat	tion [clause 2.3]		
Construction do	ocumentation is comple	ete		
	(yes/i	no)		
10.3 - Previous work	- dimensional accuracy	[clause 3.1]		
	[N/A	1		
10.4 - Previous work	- defects [clause 3.2]			
[N/A	1			
10.5 - Inspection of a	djoining properties [clau	use 3.3]		
[YES	(yes/r	no)		
10.6 - Water [6.1]				
	ontractor) mployer - free of charge mployer - metered)	Yes/No e) Yes/No Yes/No		
10.7 - Electricity [6.2]				
		Yes/No e) Yes/No Yes/No		
Section No. 1 Preliminaries Bill No. 1 Preliminaries Tlotlanang Combined		Carried Forward	R	

			Brought Forward		R	
	10.8 -	Ablution and welfare facilities [6.	3]			
		Option A (by contractor)	Yes/No			
		[YES] Option B (by employer)	Yes/No			
	10.9 -	Communication facilities [6.4]				
	10.10 -	Protection of the works [9.1]				
	10.11 -	Protection/isolation of existing/se works [9.2]	ectionally occupied			
		Protection/isolation is required [YES]	Yes/No			
	10.12 -	Disturbance [clause 9.5]				
	unacce inconve other pr permiss authorit order to	a is to be carried out in such a man optable or unreasonable dust, nois enience, annoyance and the like to coperties and traffic in so far as the sible limitations set by governmenty. Any delays, stoppages and the comply with the above will not content to the construction period of ever	e, vibrations, nuisance, o the public, others, ey exceed the t legislation or the local e like arising from or in constitute grounds for an			
	10.13 -	Environmental disturbance [claus	se 9.6]			
	environ	Extreme care must be taken not ment, natural of otherwise	to disturb the direct			
	SECT	ION C - SPECIFIC PRELIM	<u>/IINARIES</u>			
1/1/65	Contra	ct instructions (clause C1)				
		ions issued on site are to be reco ion book which is to be maintaine ctor	•			
	F:	V: T:		Item		
	Section Prelimir Bill No. Prelimir Tlotlan	naries 1	Carried Forward		R	

	Brought Forward		R	
1/1/66	Warranties for material and workmanship (clause C2)			
	Where warranties for materials and/or workmanship are called for, the Contractor shall obtain a written warranty, addressed to the Employer, from the firm supplying the materials and/or doing the work and shall deliver same to the Principal Agent on the certified completion of the contract.			
	The warranty shall state that workmanship, materials and installation are warranteed for a specified period from the date of final completion and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice to do so.			
	The warranty will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the Contractor			
	F: V: T:	Item		
1/1/67	Co-operation of Contractor for cost management (clause C3)			
	It is specifically agreed that the Contractor accepts the obligation of assisting the Principal Agent in implementing proper cost management. The Contractor will be advised by the Principal Agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The Principal Agent undertakes to make available to the Contractor all budgetary allowances and cost assessments/reports to enable the proper procedure to be implemented and the Contractor shall attend all cost plan review and cost management meetings. The Contractor undertakes to extend these procedures, as necessary, to all Sub-contractors			
	F: V: T:	Item		
	Carried Forward Section No. 1 Preliminaries Bill No. 1 Preliminaries Tlotlanang Combined School		R	

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

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

	Brought Forward		R		
1/1/77	Confidentiality (clause C13)				
	The Contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all Sub-contractors and suppliers. Such information shall not be used in any way except in connection with the execution of the works				
	No information regarding this project shall be published or disclosed without the prior written consent of the Employer				
	F: V: T:	Item			
1/1/78	Control of sand, dust, mud light and noise pollution on site, public spaces, public roads, etc. (clause C14)				
	The Contractor shall be responsible for and take all precautions in controlling all forms of pollution during the contract period due to noise, artificial light, wind-blown sand, dust, etc. in the dry season and deposits of mud, etc. in the wet season by whatever means necessary and daily removal of deposits, etc., all to the satisfaction of the Principal Agent and any costs, claims, etc. will be for the Contractor's account				
	F: V: T:	Item			
1/1/79	Health & Safety (clause C15) The Contractor shall allow for Health and Safety according to the Occupational Health and Safety Act, 1993, Construction Regulations 2003 as per Government Notice No R1010, dated 18 July 2003. Contractor to include all OHS requirements such as PPE, safety file, training, medicals, signage, safety officer and covid regulations				
	F: V: T:	Item			
	SUMMARY OF CATEGORIES				
	Category : Fixed R				
	Category : Value R				
	Category : Time R				
	Carried to Final Summary		R		
	Section No. 1 Preliminaries				
	Bill No. 1 Preliminaries				
	Tlotlanang Combined School				
			1	1	

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

	Brought Forward			R	
	SUPPLEMENTARY PREAMBLES				
	NOTE: The Tenderer is referred to the relevant Clause in the seperate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.				
	TEMPORARY BARRIERS, SCREENS, ETC				
	Temporary barriers, screens, etc including removal				
1/1	Drywall barrier 3000mm high formed of galvanised steel channel section rails and studs covered on one side with 12,7mm gypsum board panels and finished with two coats interior quality PVA emulsion paint on one side including corners, ends, etc	m	200		
	Carried to Final Summary Section No. 2			R	
	Alterations (Provisional) Bill No. 1 Alterations				
	Tlotlanang Combined School				

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

	1		
	Brought Forward	R	
Nat	ure of Material To Be Excavated		
of a	e material to be excavated is assumed to be predominantly composition that will allow excavation in "earth" as cified, but including a percentage of excavation in "soft "and "hard rock"		
Car	ting Away of Excavated Material		
dee dire	scriptions of carting away of excavated material shall be med to include loading excavated material onto trucks ctly from the excavations, or alternatively, from stock piles ated on the building site		
Den	nsity Testing On Filling		
	es for filling, etc. shall include for all density and soil type ing to prove that the specified compaction is achieved		
Age	en additional testing is done on instruction of the Principal ent and these tests are successful, they will be paid for itionally		
soil with squa acco	poisoning shall be conducted with an approved registered poisoning material of the chlordane or aldrin type mixed water and then applied at a rate of not less than 5 litres per are metre. The concentration of the solution shall be in ordance with the manufacturer's instructions, to the roval of the Principal Agent and/or Civil Engineer and ertaken under such supervision.		
Buil Bill I Fou	ction No. 3 ding Works No. 1 Indations (Provisional) tlanang Combined School	R	

	Brought Forward			R	
	Carting away of excavated material				
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.				
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep				
3/1/1	Trenches, holes, etc.	m3	479		
	Extra over excavation in earth for excavation in				
3/1/2	Soft rock	m3	45		
3/1/3	Hard rock	m3	29		
	Extra over all excavations for carting away				
3/1/4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	398		
	Risk of collapse of excavations				
3/1/5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	1 120		
	Keeping excavations free of water				
3/1/6	Keeping excavations free of all water other than subterranean water		Item		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density				
3/1/7	Backfilling to trenches, holes, etc	m3	204		
	Approved non - expansive imported inert granular filling under solid floors, supplied and carted on by Contractor, compacted in layers not exceeding 150 mm to 93% HCE density				
3/1/8	Under floors, steps, pavings, etc	m3	435		
	Carried Forward Section No. 3 Building Works Bill No. 1 Foundations (Provisional) Tlotlanang Combined School			R	

	Brought Forward			R	
	Compaction of surfaces				
3/1/9	Trim, rip and recompaction of ground surface under floors, etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density.	m2	1 711		
	Soil insecticide				
3/1/10	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	1 711		
3/1/11	To bottoms and sides of trenches etc	m2	1 363		
	Insulation				
3/1/12	50mm Lambdaboard laminated Polyisocyanurate core board installed in strict accordance with manufacturer's specifications	m	792		
	UNREINFORCED CONCRETE				
	10MPa/19mm concrete				
3/1/13	50mm Thick surface blinding under footings	m3	64		
	25MPa/19mm concrete				
3/1/14	Strip footings	m3	287		
	TEST BLOCKS				
3/1/15	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	55		
	MASONRY (CPAP Work Group No. 118)				
	BRICKWORK				
	Brickwork of NFP bricks in class II mortar				
3/1/16	One brick walls	m2	1 022		
	FACE BRICKWORK				
	Carried Forward Section No. 3 Building Works Bill No. 1 Foundations (Provisional) Tlotlanang Combined School			R	

	Brought Forward		R	
	External facings (PC R5 000,00/1000 delivered on site) pointed with recessed horizontal and vertical joints			
3/1/17	Extra over brickwork for face brickwork in foundations	12 476		
	BRICKWORK SUNDRIES			
	Brickwork reinforcement			
3/1/18	150mm Wide reinforcement built in horizontally	m 4 351		
	Carried Forward to Summary of Section No. 3 Section No. 3		R	
	Building Works Bill No. 1			
	Foundations (Provisional) Tlotlanang Combined School			

		Quantity	Rate	Amount
SECTION	NO. 3			
BILL NO. 2	2			
CONCRET	E, FORMWORK AND CEMENT			
PREAMBLI	<u> </u>			
seperate doc	enderer is referred to the relevant Clause in the ument "Model Preambles for Trades" (2008 o the Supplementary Preambles which are hereunder.			
names or cat quality requir	als or methods to be used specified by trade alogue numbers are only an indication of the ed. Items, materials or methods of similar quality with prior approval from the Principal Agent.			
SUPPLEME	ENTARY PREAMBLES			
	s otherwise stated all the items in this bill shall be Il into Work Group No. 110 for Haylett Formula			
Cost of tests	<u>5</u>			
as required usinclude the coupurpose, for tests to the a independent	making, storing and testing of concrete test cubes nder clause 7 "Tests" of SABS 1200 G shall ost of providing cube moulds necessary for the testing costs and for submitting reports on the richitect. The testing shall be undertaken by an firm or institution nominated by the contractor to of the architect. (Test cubes are measured			
ash, free from (12:1), the as ring from a m finer material	rete shall consist of twelve parts clean dry furnace in coal or other foreign matter, to one part cement the graded up to particles which will pass a 16,5mm inimum which fails to pass a 4,75mm mesh. The is from the screening are to be first mixed with the a mortar and the ash added afterwards and corporated			
Section No. 3			R	
	rmwork and Reinforcement			

	Brought Forward				R	
	"Foamcement " lightweight concrete					
	"Foamcement" lightweight concrete is to have a density of 600kg/m3 for the top 50mm and 400kg/m3 for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 50mm					
	"Celbeton" lightweight concrete					
	"Celbeton" lightweight concrete is to have a density of 1000kg/m3 for the top 20mm and 480kg/m3 for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 30mm					
	<u>Formwork</u>					
	Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use					
	The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.					
	Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described					
	Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"					
	UNREINFORCED CONCRETE					
	25MPa/19mm concrete					
3/2/1	Aprons cast in panels	m3	3	5		
	REINFORCED CONCRETE					
	Carried Forward Section No. 3 Building Works Bill No. 2				R	
	Concrete, Formwork and Reinforcement Tlotlanang Combined School					

	Brought Forward			R	
	Brought Forward			K	
	25MPa/19mm concrete				
3/2/2	Surface beds on waterproofing	m3	171		
	TEST BLOCKS				
3/2/3	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	32		
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a wood float				
3/2/4	Surface beds, slabs, etc	m2	1 711		
3/2/5	Ramps, aprons, etc. to falls	m2	409		
	FORMWORK				
3/2/6	30mm thick cavity insulation all as per manufacturers instructions	m2	729		
	Rough formwork to sides				
3/2/7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	150		
3/2/8	To slab opening not exceeding 2m girth.	No	6		
3/2/9	Slab propped up not exceeding 1,5m high.	m2	15		
	Smooth formwork (Degree of Accuracy I) to soffits of				
3/2/10	Slabs propped up not exceeding 1.5m high	m2	100		
	MOVEMENT JOINTS ETC (PROVISIONAL)				
3/2/11	10mm Isolation Joints not exceeding 300mm high	m	842		
	REINFORCEMENT (PROVISIONAL)				
	Carried Forward Section No. 3 Building Works Bill No. 2 Concrete, Formwork and Reinforcement Tlotlanang Combined School			R	

	Brought Forward			R	
	Mild and high yield steel reinforcement to concrete as described including all bending, hooked ends, binding wire and temporary supports				
3/2/12	High yield bar reinforcement Y10	t	3.00		
3/2/13	High yield bar reinforcement Y12	t	2.00		
	Fabric reinforcement				
3/2/14	Type 245 fabric reinforcement in concrete surface beds, slabs, etc	m2	1 710		
	Carried Forward to Summary of Section No. 3 Section No. 3			R	
	Building Works Bill No. 2 Concrete, Formwork and Reinforcement Tlotlanang Combined School				

	Quantity	Rate	Amount
SECTION NO. 3			
BILL NO. 3			
MASONRY			
SUPPLEMENTARY PREAMBLES			
NOTE: Unless otherwise stated all the items in this bill shall be deemed to fall into Work Group No. 118 for Haylett Formula purposes.			
NOTE: The Tenderer is referred to the relevant Clause in the seperate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.			
BRICKWORK			
Sizes in descriptions			
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
Hollow walls etc			
Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.			
Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixeal" bitumen emulsion waterproofing coating.			
User note:			
The above preamble generally applies for works in hot and humid coastal areas			
Face bricks			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
Carried Forward		R	
Section No. 3 Building Works			
Bill No. 3 Masonry			
Tlotlanang Combined School			

	Brought Forward			R	
	Pointing_				
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
	SUPERSTRUCTURE				
	Brickwork of NFX bricks (14 Mpa nominal compressive strength) in class I mortar				
3/3/1	Piers	m3	53		
3/3/2	Half brick wall	m2	93		
3/3/3	Half brick wall in beamfilling.	m2	182		
3/3/4	One brick walls	m2	1 682		
3/3/5	270mm Hollow wall of two half brick skins including wire ties	m2	639		
	BRICKWORK SUNDRIES				
	Movement Joints				
3/3/6	10mm 'Jointex' expansion joint built in vertically between brick walls	m2	191		
3/3/7	Movement joint formed of 20mm softboard built in vertically between brick wall and concrete	m	182		
	Brickwork reinforcement				
3/3/8	Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured nett).	m	962		
3/3/9	150mm Wide reinforcement built in horizontally	m	5 227		
	Prestressed fabricated lintels				
/3/10	220 x 75mm Lintels in lengths not exceeding 3m	m	186		
	Turning pieces				
3/3/11	220mm Wide turning piece to lintels etc	m	213		
	Carried Forward Section No. 3 Building Works Bill No. 3			R	
	Masonry Tlotlanang Combined School				

	Brought Forward			R	
	AIR BRICKS				
	Air bricks etc. (Provisional)				
3/3/12	229 x 152mm Terra-cotta vermin proof air bricks with gauze backing and building into opening in brickwork in cement mortar	No	25		
	FACE BRICKWORK				
	External facings (PC R5 000,00/1000 delivered on site) pointed with recessed horizontal and vertical joints				
3/3/13	Extra over brickwork for face brickwork and pointing in stretcher bond	m2	1 398		
3/3/14	Half brickwall facing both sides.	m2	756		
3/3/15	Face brick-on-edge coping on top of one brick wall in cement mortar and pointing on top and both sides	m	795		
3/3/16	Brick-on-edge header course sill set sloping and slightly projecting pointed on all exposed faces	m	545		
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3 Building Works Bill No. 3				
	Masonry Tlotlanang Combined School				

	Quantity	Rate	Amoun
SECTION NO. 3			
BILL NO. 4			
WATERPROOFING			
PREAMBLES			
PREAMBLES: The Tenderer is referred to the relevant Clause in the seperate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.			
Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Principal Agent.			
NOTE: Unless otherwise stated all the items in this bill shall be deemed to fall into Work Group No. 120 for Haylett Formula purposes.			
SUPPLEMENTARY PREAMBLES			
<u>Preambles</u>			
Properietary Products in Descriptions			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
NOTE: Unless otherwise stated all the items in this bill shall be deemed to fall into Work Group No. 120 for Haylett Formula purposes.			
Waterproofing			
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			
Carried Forward		R	
Section No. 3 Building Works Bill No. 4			
Waterproofing Tlotlanang Combined School			

	Brought Forward			R	
	DAMP-PROOFING OF WALLS AND FLOORS				
	One layer of 375 micron embossed damp proof course				
3/4/1	On foundation walls	m2	249		
3/4/2	On walls, stepped up in cavities, under cills, around door frames etc.	m2	149		
	One layer of 250 micron waterproof sheeting sealed at laps with approved tape				
3/4/3	Under surface beds	m2	1 710		
	Carried Forward to Summary of Section No. 3 Section No. 3 Building Works Bill No. 4 Waterproofing Tlotlanang Combined School			R	_

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

	Brought Forward	R	
0			
Guai	rantee		
comp roof	of coverings and side cladding are to be installed to oly with SABS Code of Practice 0237 where applicable. All sheeting shall be laid under a 5 year guarantee for site manship and water tightness.		
Note	s·		
	_		
certif	Contractor is to submit to the consultant Architect a icate signed by the Merchant, stating that the galvanized covering supplied complies with the required thickness ified		
All ho	oles through profiled metal sheeting are to be drilled		
	E: Unless otherwise stated all the items in this bill shall be ned to fall into Work Group No. 124 for Haylett Formula oses.		
sepe Edition	E: The Tenderer is referred to the relevant Clause in the rate document "Model Preambles for Trades" (2008 on) and to the Supplementary Preambles which are porated hereunder.		
Note	s:		
acco	following roof sheeting systems are to be installed in strict rdance with the Manufacturer's and/or Supplier's ifications.		
	g of all roof sheeting is to be in accordance with the ufacturer's approved Instruction Book.		
	Manufacturer shall comply comply with ISO9002 Quality agement System.		
site-v	tten and approved five year guarantee of workmanship and watertightness shall be issued after final ection of concealed-fix roofing by the Manufacturer		
	Carried Forward on No. 3 ing Works lo. 5	R	
Roof	Coverings, etc anang Combined School		

	Brought Forward			R	
	PROFILED METAL SHEETING AND ACCESSORIES				
	Global roofing solutions 0.58mm thick 890mm cover IBR 890 profile galvanised steel, Z200 spelter ISQ550 chromadek dove grey finish top coat and pebble grey backing coat roof sheeting, fixed to timber intermediate purlins at max 2600mm centres and eaves and ridge purlins at max 2300mm centres using hex flange head plus EPPPDM seal self drilling type 17 drill point all in accordance with the manufacturer's specification				
3/5/1	Roof covering with pitch not exceeding 17 degrees, in transportable lengths not exceeding 20m fixed to timber purlins.	m2	1 797		
3/5/2	1,2mm thick Ridge Capping	m	148		
3/5/3	Valley	m	148		
3/5/4	Valley closer	m	148		
3/5/5	Extra for rolled edge at verges	m	294		
3/5/6	Broad flute closer	m	200		
3/5/7	Eaves fillers	m	281		
	Carried Forward to Summary of Section No. 3 Section No. 3 Building Works			R	
	Bill No. 5 Roof Coverings, etc Tlotlanang Combined School				

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

Brought	Forward	R	
Fixing			
Items described as "nailed" shall be deemed to be fixe hardened steel nails or shot pins to brickwork or concre			
Decorative laminate finish:			
Laminate finish shall be glued under pressure. Edge s shall be butt jointed at junctions with adjacent similar fi	·		
Roof trusses, etc.			
Prefabricated trusses shall be fabricated in a factory by fabricator who has been awarded a Certificate of Compley the Institute of Timber Construction and is approved Principal Agent.	petence		
Each roof truss shall have all its members accurately of closely butted together and rigidly fixed by CSIR appropatented galvanized metal spiked connectors, precision pressed on both sides of each intersection by an approperation, all in accordance with the manufacturers instruction.	ved n oved		
The design, manufacture and transportation of the root bracing, etc shall be under the control of a registered S Engineer in accordance with SANS 1900, SANS 10160 SANS 10163, who shall, after erection, provide a certificonfirming that the design, manufacture, transportation erection and bracing has been carried out in accordance this specification	Structural D and icate		
The design shall include for all live loads, wind loads a dead loads imposed by roof covering, purlins, ceilings,			
Fully detailed shop drawings of all trusses etc, indicatir bracing, loading, etc, shall be submitted to the Principa for approval prior to fabrication			
Unless specific erection instructions are given, erection carried out in accordance with the procedures and recommendations of the manual The Erection and Bra Timber Roof Trusses published by the Institute for Tim Construction and the Council for Scientific and Industri Research or as detailed by the designer	ncing of		
Roof trusses and bracing shall include design and prepof shop drawings	paration		
	Forward	R	
Section No. 3 Building Works Bill No. 6 Carpentry and Joinery Tlotlanang Combined School			

Brought Forw	vard	R	
Notes: The Contractor will be required to provide a certificate of approval signed by a registered engineer certifying that the trusses have been designed, manufactured and installed in accordance with relevant SANS specifications.			
PLATE NAILED PREFABRICATED ROOF TRUSSES	<u>s</u>		
The following is applicable in respect with roof trusses: a) Trusses are at maximum 1200mm centres and construct for a 25 degrees pitch unless otherwise stated. Roof covering 0.6mm corrugated iron sheeting on 50 x 76mm purlins. Ceilings are of 6,4mm gypsum plasterboard sheeting on 38 38mm brandering, nailed directly below the trusses. The dimensions in the descriptions are nominal and actual measurements shall be obtained from the principal agent and/or the site before design or fabrication commences.	ng		
b) All roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind load and to take corrugated roof covering, purlins and fibre ceme or gypsum plasterboard ceilings with brandering. Each roof truss shall have all its members accurately cut and close but together and rigidly fixed by CSIR approved patented galvanised metal spiked connectors, fixed on both sides of each intersection by an approved method, all in accordance with manufacturer's instructions.	tted		
c) Unless otherwise described all rafter feet are to extend 500mm beyond the length of the tie beam on one side, and 610mm on the other side.			
d) The design, manufacture and transportation of the roof trusses, bracing, etc. shall be under the control of a register engineer in accordance with SABS 0243 and it shall be required from the manufacturer of the truss to lodge a written guarant that his construction has been designed by a qualified struct engineer and that he is in possession of a capability certifications by the Institute for Timber Construction and approved the Papragaptetics Agent	nired tee cural tte		
the Representative Agent. Carried Forw Section No. 3 Building Works Bill No. 6	/ard	R	

	Brought Forward			R	
	e) The tenderer's attention is drawn to the fact that the detail drawings represent only the overall size and bearing points of the trusses and not the required design.				
	f) Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa and the National Timber Research Institute.				
	g) Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, etc. and for temporary bracing.				
3/6/1	Roof construction to double pitched roof with two gable ends, 3880 x 3500mm and 1550mm high overall with 800mm overhang on both sides including trusses and permanent bracing (wall plates, purlins, battens, etc. elsewhere) (take specific note of cantilever details at walkway) (Provisional)	No	1		
3/6/2	Roof construction to double pitched roof with two gable ends, 18830 x 12442mm and 1250mm high overall with 800mm overhang on both sides including trusses and permanent bracing (wall plates, purlins, battens, etc. elsewhere) (take specific note of cantilever details at walkway) (Provisional)	No	1		
3/6/3	Roof construction to double pitched roof with two gable ends, 26930 x 11244mm and 1850mm high overall with 800mm overhang on both sides including trusses and permanent bracing (wall plates, purlins, battens, etc. elsewhere) (take specific note of cantilever details at walkway) (Provisional)	No	3		
3/6/4	Roof construction to double pitched roof with two gable ends, 29120 x 10122mm and 1550mm high overall with 800mm overhang on both sides including trusses and permanent bracing (wall plates, purlins, battens, etc. elsewhere) (take specific note of cantilever details at walkway) (Provisional)	No	1		
3/6/5	Roof construction to double pitched roof with two gable ends, 31240 x 14097mm and 1550mm high overall with 800mm overhang on both sides including trusses and permanent bracing (wall plates, purlins, battens, etc. elsewhere) (take specific note of cantilever details at walkway) (Provisional)	No	1		
	SUNDRY ROOF TIMBERS				
	Carried Forward Section No. 3			R	
	Building Works Bill No. 6 Carpentry and Joinery Tlotlanang Combined School				

	Brought Forward			R	
	Sawn Softwood (Grade 4)				
3/6/6	38 x 76mm runners	m	681		
3/6/7	38 x 114mm Wall plates	m	302		
3/6/8	76 x 50mm Purlins	m	1 754		
3/6/9	76 x 50mm Splayed purlins	m	210		
	Roof Sundries				
3/6/10	"Hurricane clip between truss and windbracing (Provisional)	No	554		
3/6/11	"Hurricane clip between truss and purlins (Provisional)	No	1 056		
	EAVES, VERGES, ETC				
	Pressed fibre cement				
3/6/12	225 x 10mm Nutec cement Fascia boards including galvanised steel H-profile jointing strips	m	395		
	SKIRTINGS:				
	Wrought Meranti:				
3/6/13	19 x 76mm Meranti hardwood skirting nailed to walls with heads of nails punched and filled including 25mm quarter round fitted to bottom edge.	m	621		
	DOORS, ETC				
	NOTE:				
	All framed and ledged batten doors and combination doors, where battens are utilised, shall only be of construction acceptable to the Department, i.e. mortice and tennon where the tennon is exposed on the outside egdes of stiles and where the tennon is wedged to form form a dovetail shape.				
	Meranti doors hung to timber frames				
3/6/14	40mm x 813x 2 032mm horizontal grooved heavy duty hardwood door with exposed edges door sanded down. Ref D01	No	25		
	Carried Forward Section No. 3 Building Works Bill No. 6 Carpentry and Joinery Tlotlanang Combined School			R	

	Brought Forward			R	
3/6/15	40mm x 1 000 x 2 100mm horizontal grooved heavy duty hardwood door with exposed edges door sanded down. Ref D03	No	4		
	Semi solid timer doors with commercial veneer suitable for and hung to timber frame				
3/6/16	40 x 813 x 2 032mm Ref D2	No	20		
3/6/17	40 x 813 x 2 032mm Ref D4	No	14		
	70 x 90mm Meranti timber door frame				
3/6/18	Meranti door frame size, 900 x 2 100mm high	No	50		
3/6/19	Meranti door frame size 1 600 x 2 100mm high	No	2		
3/6/20	Meranti door frame size 936 x 2 032mm	No	2		
	PINNING BOARDS:				
	Softboard:				
3/6/21	10mm Thick softboard pinning board fixed to plastered wall with an approved adhesive.	m2	91		
	Wrought Saligna:				
3/6/22	19 x 50mm Rebated and angle rounded framing plugged and pelleted.	m	273		
	MOULDINGS AND SUNDRIES				
	Supawood				
3/6/23	16 x 150mm dado border rail twice corner rounded and once hollow grooved at back, plugged and pelleted	m	494		
	<u>FURNITURE</u>				
	Classrooms				
3/6/24	Standard single desk for secondary learners: 650H x 450D x 550W	No	440		
3/6/25	Senior nicky polyshell: 400H (Orange)	No	440		
	Carried Forward Section No. 3 Building Works Bill No. 6 Carpentry and Joinery			R	
	Tlotlanang Combined School				

	Brought Forward			R	
3/6/26	Teacher's desk: 725H x 900D x 1500W	No	14		
3/6/27	Stackable chair 410mm: 19mm square tubing frame: black	No	14		
	HOD'S Office				
3/6/28	Solo 32 1500 x 800 rectangular desk with 3 drawers (melamine oak)	No	2		
3/6/29	High back chair swivel & tilt mechanis black nylon base arms polyurethane blue	No	2		
3/6/30	Visitors arm chair polyurethane blue	No	4		
	Administration building:				
3/6/31	Monte 2000 x 1000 CPU combination desk with inlay (mahogony veneer)	No	1		
3/6/32	High black PU leather chair	No	1		
3/6/33	Visitor's PU leather chair	No	2		
3/6/34	Monte hinged door cupboard 1500 x 900	No	1		
	Deputy principal				
3/6/35	Versi 2000 x 900 desk with link, pedastal amd credenza (mahogony melanine)	No	1		
3/6/36	High black PU leather chair	No	1		
3/6/37	Visitor's PU leather chair	No	2		
	Reception				
3/6/38	Solo 32 1500 x 800 regtangular desk with 3 drawers (melanine oak)	No	2		
3/6/39	Typist chair	No	2		
	Staff room				
3/6/40	Class act table trapezoid 1370 x 685	No	4		
3/6/41	Class act table rectangular 1370 x 685	No	16		
	Carried Forward Section No. 3 Building Works Bill No. 6 Carpentry and Joinery Tlotlanang Combined School			R	

	Daniel C	,			
	Brought Forward	l		R	
3/6/42	Banquet side chair black painted 4 legged frame/ stackable/upholstered in contract black fabric	No	30		
	Sick bay				
3/6/43	Single steel bed with mattress	No	2		
	Carried Forward to Summary of Section No. 3 Section No. 3	,		R	_
	Building Works Bill No. 6 Carpentry and Joinery				=
	Tlotlanang Combined School				

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

	Brought Forward			R	
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere				
	CEILINGS ETC				
	NAILED UP CEILINGS				
	6.4mm Gyproc Rhinoboard with H-type pressed steel jointing strips				
3/7/1	Gyproc rhinoboard 12.5mm is fixed to timber brandering installed at maximum centres. All joints shall be staggered. Apply gyproc rhino tape to all joints and cover it with 2 layers of gyproc rhinoglide	m2	1 303		
3/7/2	Extra over ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	10		
	INSULATION, ETC				
	Approved non-combustible blanket insulation				
3/7/3	Roof insulation to main roof areas to be Isover 135mm thick aerolite non-combustible light weight fibreglass glasswool hermal ceiling insulation (Code: 11316) closely fitted between tie beams and laid loose on top of brandering between roof timbers all as per manufacturers instructions	m2	1 303		
	CORNICES				
3/7/4	75mm polystyrene cove cornice	m	919		
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3 Building Works Bill No. 7 Ceilings, Partitions & Access Flooring Tlotlanang Combined School				

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

2,0mm thick PUR vinyl tiles (PC Amount R1 with approved water based acrylic adhesive (screed elsewhere) 3/8/1 On screeded floors POLISH, SEALERS, ETC Scrub with a neutral detergent and seal with water based floor dressing 3/8/2 Scrubbing with diluted neutral detergent complete 825, rinsing, drying and applying three coats with dressing complying with SANS 1042 on vinyl floor	th three coats lying with SANS vater-based floor			
POLISH, SEALERS, ETC Scrub with a neutral detergent and seal with water based floor dressing 3/8/2 Scrubbing with diluted neutral detergent complete 825, rinsing, drying and applying three coats with the seal w	th three coats lying with SANS vater-based floor			
Scrub with a neutral detergent and seal wit water based floor dressing 3/8/2 Scrubbing with diluted neutral detergent complete 825, rinsing, drying and applying three coats with the seal with the s	lying with SANS vater-based floor	2 1 153		
 water based floor dressing 3/8/2 Scrubbing with diluted neutral detergent completes 825, rinsing, drying and applying three coats w 	lying with SANS vater-based floor	2 1 153		
825, rinsing, drying and applying three coats w	ater-based floor	2 1 153		
Carried Forward to Summary Section No. 3 Building Works	of Section No. 3		R	_
Bill No. 8 Floor Coverings, etc Tlotlanang Combined School				

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

	Brought Forward			R	
	Finishes to ironmongery				
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded				
	HINGES AND BOLTS				
3/9/1	150mm CH Barrel bolt	No	39		
	LOCKSETS				
	The following locks are to be keyed alike, including three keys per lock				
3/9/2	75mm 4 lever, upright lock with three keys, for-end and striking plate	No	44		
3/9/3	Cast Zinc Bathroom indicator bolt.	No	12		
3/9/4	Silver Anodised Helping Hand Indicator.	No	3		
3/9/5	63mm Brass five pin tumbler padlock with two keys	No	15		
	<u>Handles</u>				
3/9/6	100mm Chromium plated bow handle bolted through door with the bolt ends hammered to prevent the nuts being removed	No	44		
	LETTERS, NAMEPLATES, ETC				
	Carried Forward Section No. 3 Building Works Bill No. 9 Ironmongery			R	
	Tlotlanang Combined School				

	Brought Forward			R	
	3mm Thick rectangular perspex name plate with black letters (letters to be 33,5mm Sans Serif Helvetica Medium and to be 7mm from edges of sign) on back, with light grey background and vinyl protection layer, with edges of perspex polished fixed to doors with suitable double sided tape				
3/9/7	32mm Diameter perspex key tags, each with two holes and engraved with a two digit number, including 22mm diameter spring steel "spiral" type clips for attaching to keys	No	20		
	Aluminium				
3/9/8	160 x 160 x 3mm Thick satin anodised aluminium pushplate with fire extinguisher pictogram	No	12		
3/9/9	160 x 160 x 3mm Thick satin anodised aluminium pushplate with fire hose reel pictogram	No	12		
	<u>Doorstops</u>				
3/9/10	Satin chrome plated semicircular floor mounted door stop	No	56		
	BATHROOM FITTINGS				1
	"Kimberly clarke" or similar approved				
3/9/11	MR2 Stainless steel toilet tissue dispenser stainless steel (Code: SA426130) overall size 130 x 135 x 256mm high installed by kimberly clarke installation team	No	13		
	GRAB RAILS				
3/9/12	Chairman Industies SR3 Grab rail or similar approved.	No	4		
3/9/13	Chairman Industies DL2 Dogleg Grab rail or similar approved.	No	4		
3/9/14	Chairman Industies SR2 Grab rail or similar approved.	No	4]
	WALL MOUNTED WRITING BOARDS				
3/9/15	Parrot magnetic whiteboard 1 820 x 1 220mm high including 2 x side panels wide and 1229 high with pen tray, wall mounted.	No	11		
3/9/16	Parrot 1 800 x 900mm high aluminium framed bulletin board with concelaed mounting and additional bracket	No	18		
	Carried Forward Section No. 3 Building Works Bill No. 9 Ironmongery Tlotlanang Combined School			R	

Brought Forwa	rd		R	
STEEL CUPBOARDS				
Steel Lockable Stationery Filling Cabinet				
0.7mm thick Steel Stationery Cupboard overall size 1800 x 90 x 450mm wide complete with three (3 No.) adjustable shelves and with a pad-lock system. Colour to Project Manager's specification.	No	20		
Carried Forward to Summary of Section No Section No. 3	. 3		R	
Building Works Bill No. 9				
Ironmongery Tlotlanang Combined School				

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

	Brought Forward			R	
	Brought Forward			IX.	
3/10/4	Shutterway stylish security gate to fit door opening 3 440 x 2100mm and fixed of door threshold all as per manufacturer's specification. Ref G3	No	1		
	MILD STEEL WINDOW FRAMES				
	All windows are to be constructed of heavy duty window sections. No light duty sections are to be employed in the works and if any such window sections are employed they will be rejected.				
	Standard school type windows including chrome plated fittings to suite sashes, with and including 20 x 5mm galvanised mild steel flat bar burglar proofing as per NBP2 pattern, welded to frames at centre-line of panes				
3/10/5	Window W01, overall size 889 x 854mm high standard type, vertical steel window.	No	69		
3/10/6	Window W02, overall size 889 x 1 248mm high standard type, vertical steel window.	No	70		
3/10/7	Window W03, overall size 889 x 457mm high standard type,	110	70		
3/10/1	vertical steel window.	No	18		
3/10/8	Window W04, overall size 673 x 511mm high standard type, vertical steel window.	NI-	10		
	METAL BOORS	No	16		
	METAL DOORS				
3/10/9	Standard DDA French Door, overall size 1524 x 2134mm high.	No	2		
	ALUMINIUM WINDOWS				
3/10/10	Aluminium roller shutter, overall size 3860 x 1 200mm high in accordance with SANS 613 with surface natural anodised aluminium colour silver.	No	1		
3/10/11	Aluminium roller shutter, overall size 2000 x 1 200mm high in accordance with SANS 613 with surface natural anodised				
	aluminium colour silver.	No	1		
	Carried Forward Section No. 3 Building Works Bill No. 10 Metalwork			R	
	Tlotlanang Combined School				

	Brought Forward		R	
	STRONGROOM, RECORD ROOM DOORS, VENTILATORS, ETC			
	Steel strong room / record room door and frame fixed to brickwork			
3/10/12	Category 230kg Record Room Door and frame suitable for 120mm wide concrete wall, size 830 x 1932mm high overall with and including seven lever security keylock, hinges, etc No	1		
3/10/13	Standard safe door doorstop fixed to wall No	1		
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3 Building Works Bill No. 10			
	Metalwork Tlotlanang Combined School			

	Quantity	Rate	Amoun
SECTION NO. 3			
BILL NO. 11			
PLASTERING			
PREAMBLES			
NOTE: The Tenderer is referred to the relevant Clause in th seperate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.	е		
SUPPLEMENTARY PREAMBLES			
<u>Preambles</u>			
The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.			
Properietary Products in Descriptions			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be use with prior approval by the Principal Agent	ed		
NOTE: Screed mix designs must be done by the engineer at the sand tested in a laboratory beforehand. A mechanical mixer is preferred to ensure a homogeneous smooth plaster screed, etc. mixtures and each batch should be mixed for no less than 3 minutes. The time which elapse between the star mixing a batch and when it is placed, should not exceed 45 minutes and during that time, the mix should be protected for drying out. Regular strength tests must be conducted to the mixes.	r, ot ort of om		
A level screed must be provided and a special large wooder trowel to be used. Screeds should be inspected and tested determine deviation from datum level and surface regularity. The strength of the screed, once it has dried-out, must be to regular using the "BRE screed tester" as well as tests to che the adhesion between screed and base.	to est		
Carried Forw Section No. 3	vard	R	
Building Works Bill No. 11 Plastering			
Tlotlanang Combined School			

	Brought Forward			R	
	NOTE: Unless otherwise stated all the items in this bill shall be deemed to fall into Work Group No. 142 for Haylett Formula purposes.				
	Wood Floated Screeds on concrete				
3/11/1	Wood Floated Screed	m2	135		
	SCREEDS				
	Screeds on concrete				
3/11/2	38mm Thick on floors to receive ceramic tiles	m2	186		
	Screed				
3/11/3	38mm Thick on floors to receive vinyl tiles	m2	1 153		
	INTERNAL PLASTER				
	One coat (4:1) cement plaster				
3/11/4	On walls	m2	2 122		
3/11/5	Narrow widths	m2	73		
	EXTERNAL PLASTER				
	One coat (4:1) cement plaster				
3/11/6	On walls	m2	450		
3/11/7	Narrow widths	m2	60		
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3 Building Works				
	Bill No. 11 Plastering				
	Tlotlanang Combined School				

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

	Brought Forward			R	
	<u>Fixing</u>				
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding				
	Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat				
	Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from the "Tal Professional" ("Ceresit Tylon") range of products as recommended by the manufacturer of the tiles				
	WALL TILING				
	200 X 250 X 5mm white first grade Ceramic wall tiles fied with adhesive to plaster and pointed with white jointing compound.				
3/12/1	On walls in splashbacks, etc.	m2	186		
	FLOOR TILING				
	300mm x 300mm cloured non slip porcelain tiles (PC Amount R150/m2) laid with and including adhesive to screed (screed elsewhere) and flush pointed with tinted grout				
3/12/2	On floors	m2	150		
3/12/3	Skirtings 150mm high of cut course tile.	m	95		
				_	
	Carried Forward to Summary of Section No. 3 Section No. 3 Building Works Bill No. 12			R	
	Tiling Tlotlanang Combined School				

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

Brought Forward	R	
Copper pipes:		
Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" or similar and approved type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground		
Fixing of pipes		
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		
Reducing fittings		
Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained		
Excavations		
No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling		
"Soft rock" and "hard rock" shall be as defined in "Earthworks"		
Laying, backfilling, bedding, etc. of pipes		
Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions		
Carried Forward Section No. 3 Building Works Bill No. 13 Plumbing and Drainage	R	
Tlotlanang Combined School		

Brought Forward	R	
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		
Flush pans		
Flush pans shall have straight or side outlets and "P" or "S" traps as necessary		
Stainless steel basins, sinks, wash troughs, urinals, etc.		
Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable		
Waste unions		
Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings		
"Densyl" petrolatum anti corrosion tape as manufactured by Denso SA (Pty) Ltd.		
Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described		
Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Lay flat" sheeting, securing of same, etc		
SANITARY FITTINGS:		
Carried Forward Section No. 3 Building Works Bill No. 13 Plumbing and Drainage	R	
Tlotlanang Combined School		

	Brought Forward			R	
	Stainless steel:				
3/13/1	Franke Projectline Model PLN621 Grade 304 18/10 polished stainless steel double end bowl inset sink (Code: 1990031), overall size 1200 x 460mm with two 340 x 370 x 140mm deep bowls, fitted onto cupboards(elsewhere specified) sink to include plumbing kit (Code: 1120009) mixer (Code: 1150019) (kitchen cabinets by specialist).	No	2		
3/13/2	Franke 1,2mm Grade 304 18/10 stainless steel BE Barron bowl urinal (Code: 2540055), size 316 x 241 x 425mm high, Cobra Junior Flushmaster (Code: FJB 102) exposed back entry flush valve, 40mm waste outlet, pressed perforated stainless steel grid and chrome plated button spreader connected to 15mm water supply, 2mm thick mounting plate bolted to wall with anchor bolts	No	8		
3/13/3	Franke 1,6mm Grade 304 18/10 stainless steel SSW12 hospital surgeon scrub-up unit (Code: 2630044), size 1200 x 460 x 555mm with radiused internal corners, front and side of unit to be of double walled construction with inner wall sprayed with vermin proof bitumastic sound deadening approximately 2mm thick, 150mm high integral splashback, 40mm waste outlet connected to cobra chromium plated bottle trap (code: 345/40), connected to 15mm water supply, fixed to emovable 2mm thick galvanised mild steel fixing plate and bolted to wall with anchor bolts 900mm from finished floor level				
		No	8		
	Sanitary fittings:				
3/13/4	Lecico Atlas 50cm basin with semi pedastal clour white, fixed with stainless steel screws and washers to plugs in wall and sealed with abe Dow corning acetoxy silicone sealant where basin meets wall				
		No	12		
3/13/5	Lecico Neon front flush close coupled WC colour white suite comprising seat and cover bolted to bowl white vitreous china pan with P or S trap, 9 litre low-level white vitreous china cistern complete with valveless syphonic fitting, ball valve and				
	matching flush pipe and heavy duty white single flap seat	No	12		
				_	
	Section No. 3 Building Works Bill No. 13 Plumbing and Drainage Tlotlanang Combined School			R	

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

	Brought Forward			R	
3/13/20	15mm "Ball-o-Stop" or other approved brass stopcock	No	4		
3/13/21	15mm "FJT 5.5" CP urinal tail pipe.	No	2		
3/13/22	22mm "131" Brass stopcock.	No	6		
3/13/23	15mm "139 star" CP underwall pattern stopcock.	No	2		
3/13/24	Cobra star or similar approved pillar tap (Code: FPTA2A1SR-0GT01 SKU 211-15/N)	No	4		
3/13/25	Cobra or similar approved Bib tap (Code: FBBAE1SR-0GT01)	No	4		
3/13/26	Cobra or similar approved elbow operated pillar tap (Code: FEAPLEA-4FT01)	No	1		
3/13/27	15mm "166/041" CP sink mixer.	No	2		
3/13/28	Urinal flushing valve.	No	2		
3/13/29	"Masterbox" valve set.	No	1		
	SANITARY PLUMBING:				
	uPVC pipes:				
3/13/30	50mm Pipes.	m	160		
3/13/31	110mm Pipes.	m	206		
	Extra over uPVC pipes for fittings:				
3/13/32	50mm Access bend.	No	36		
3/13/33	50mm Junction	No	15		
3/13/34	50mm Access Junction	No	15		
3/13/35	110mm Access heel bend.	No	19		
3/13/36	110mm Vent valve.	No	12		
	WATER SUPPLIES:				
	Carried Forward Section No. 3 Building Works Bill No. 13 Plumbing and Drainage Tlotlanang Combined School			R	

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

	Brought Forward		R	
	Prepare, prime with a self-etching primer and paint one undercoat and one coat high gloss enamel paint			
3/13/48	On galvanised mild steel pipe not exceeding 300mm girth m	150		
	Carried Forward to Summary of Section No. 3 Section No. 3		R	
	Building Works Bill No. 13 Plumbing and Drainage			
	Tlotlanang Combined School			

Item No			Quantity	Rate	Amount
	SECTION NO. 3				
	BILL NO. 14				
	GLAZING				
	PREAMBLES				
	PREAMBLES: The Tenderer is referred to the relevant Clause in the seperate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.				
	NOTE: Unless otherwise stated all the items in this bill shall be deemed to fall into Work Group No. 150 for Haylett Formula purposes.				
	SUPPLEMENTARY PREAMBLES				
	GLAZING TO STEEL WITH PUTTY				
	4mm Clear laminated safety glass				
3/14/1	Panes exceeding 0,1m² and not exceeding 0,5m²	m2	260		
	3mm Obscure glass				
3/14/2	Panes exceeding 0,1m² but not ne 0.5m2	m2	107		
	Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Principal Agent.				
	6mm Float glass with polished edges all round				
3/14/3	Mirror 450 X 600mm high four times holed for and fixed to wall with chromium plated dome headed mirror screws (K9)	No	12		
	Carried Forward to Summary of Section No. 3 Section No. 3 Building Works			R	
	Bill No. 14 Glazing Tlotlanang Combined School				

Item No			Quantity	Rate	Amount
	SECTION NO. 3				
	BILL NO. 15				
	PAINTWORK				
	PREAMBLES				
	NOTE: The Tenderer is referred to the relevant Clause in the seperate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.				
	SUPPLEMENTARY PREAMBLES				
	NOTE: Unless otherwise stated all the items in this bill shall be deemed to fall into Work Group No. 152 for Haylett Formula purposes.				
	PAINTWORK ETC TO NEW WORK				
	ON PLASTER, ETC.				
	One undercoat and two coats paint				
3/15/1	On internal plastered walls	m2	2 122		
3/15/2	On external plastered walls	m2	450		
	ON PLASTER BOARD				
	One coat plaster primer and two coats EPL polvin super acrylic ON:				
3/15/3	On ceilings and cornices	m2	1 303		
	ON METAL				
	Spot priming defects in pre primed surfaces with zinc chromate primer and applying one coat undercoat and two coats enamel paint on steel				
3/15/4	On door frames	m2	156		
3/15/5	Security gates, etc	m2	142		
	ON WOOD				
	Section No. 3 Building Works Bill No. 15 Paintwork Tlotlanang Combined School			R	

	Brought Forward			R	
	Enamel paint				
3/15/6	On rails, etc not exceeding 300 mm girth	m	104		
	One undercoat and two coats paint				
3/15/7	On doors	m2	130		
	One coat dark stain and three coats clear ultra varnish				
3/15/8	On doors	m2	330		
	One coat pink oil based wood primer, one coat "UC.1 Merit" universal undercoat and two coats universal enamel gloss paint on:				
3/15/9	Roof timbers at eaves and verges not exceeding 300mm girth.	m2	113		
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3				<u> </u>
	Bill No. 15				
	Tlotlanang Combined School				
	Building Works Bill No. 15 Paintwork			R	

	Section No. 3				
	Building Works				
	SECTION SUMMARY - Building Works				
Bill No		Page No		Amount	
3/1	Foundations (Provisional)	-48-			
3/2	Concrete, Formwork and Reinforcement	-52-			
3/3	Masonry	-55-			
3/4	Waterproofing	-57-			
3/5	Roof Coverings, etc	-60-			
3/6	Carpentry and Joinery	-68-			
3/7	Ceilings, Partitions & Access Flooring	-70-			
3/8	Floor Coverings, etc	-72-			
3/9	Ironmongery	-76-			
3/10	Metalwork	-79-			
3/11	Plastering	-81-			
3/12	Tiling	-83-			
3/13	Plumbing and Drainage	-91-			
3/14	Glazing	-92-			
3/15	Paintwork	-94-			
	Carried to Final Summary Section No. 3		R		
	Building Works Tlotlanang Combined School				

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

	Brought Forward			R	
	Extra over all excavations for carting away				
4/1/7	Surplus material from excavations to stock piles on site not exceding 300m	m3	1 443		
	Earth filling supplied by the contractor in platforms				
4/1/8	In platforms of G5 material in accordance with SABS 1200 DM compacted to 90% Mod AASHTO density	m3	524		
4/1/9	In platforms of G6 material in accordance with SABS 1200 DM compacted to 95% Mod AASHTO density	m3	969		
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep				
4/1/10	excavations in earth for aprons	m3	15		
	Carried Forward to Summary of Section No. 4 Section No. 4			R	
	External works Bill No. 1				
	General Site Works Tlotlanang Combined School				

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

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

	Brought Forward			R	
	<u>Sundries</u>				
/2/15	15MPa/19mm mass concrete encasing around 100mm horizontal drain pipe including all necessary formwork	m	22		
/2/16	15MPa/19mm mass concrete encasing around 100mm vertical or raking drain pipe to cleaning eye including all necessary formwork	m	14		
2/17	15MPa/19mm mass concrete in precast I.E. marker block set flush with the ground or paving	No	5		
	THE FOLLOWING IN PRE-FABRICATED MANHOLES				
	(HAYLETT FORMULA WORK GROUP NO. 146)				
	Pre-fabricated concrete manholes and shall constructed according to the Manufacturer's instructions. All manholes to be out of dolomitic aggregate				
	Excavate in earth for and including circular type precast concrete manhole formed of 1,330m diameter x 100mm thick 20MPa/19mm mass concrete bottom with manhole shaft formed of 1,02m diameter (internal) precast concrete rings with joints sealed with non hardening waterproof such as DENSO sealing with and including precast concrete cover slab 125mm thick and precast concrete spacer slab with opening for and including heavy duty road type manhole cover and frame as type 4 set in cement mortar and sealed in tallow and with fine mass concrete benching in bottom floated smooth with falls to and including 617 mesh reinforcement and 150mm vitrified clay channels and finished on all exposed surfaces with 25mm thick granolithic with angles rounded including all necessary step irons, etc.				
/2/18	Manhole not exceeding 1m deep	No	4		
2/19	Manhole exceeding 1m and not exceeding 2m deep	No	4		
/2/20	Manhole exceeding 2m and not exceeding 4m deep	No	4		
	Carried Forward Section No. 4 External works Bill No. 2 Stormwater, Soil drainage and Water Supply Tlotlanang Combined School			R	

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

				ı	
	Brought Forward			R	
4/2/33	Castle Optima 2000 or other approved water meter with threaded inlet port	No	1		
	SUNDRIES				
	(HAYLETT FORMULA WORK GROUP NO. 148)				
4/2/34	Excavate in earth for and build stop cock box size 225 x 225 x 600mm deep internally with half brick sides in cement mortar with 225 x 225mm regulation pattern cast iron hinged box Type 11B set in and including 15MPa/19mm mass concrete surround size75mm wide x 100mm deep all round	No	1		
4/2/35	Excavate in earth not exceeding 1m deep for and build circular type precast concrete valve and meter chamber formed of 1,05m diameter (internal) precast concrete rings with and including precast concrete cover slab 125mm thick and precast concrete spacer slab with opening for and pavement type manhole cover and frame as type 4 set in cement mortar and sealed in tallow and with fine mass concrete filling in bottom floated smooth with falls and finished on all exposed surfaces with 25mm thick granolithic with angles rounded including all necessary step irons, etc	No	1		
4/2/36	Extra over excavations in earth for pipe trenches, etc for		•		
4/2/30	excavations in soft rock	m3	1		
4/2/37	Extra over excavations in earth for pipe trenches, etc for excavations in hard rock	m3	1		
4/2/38	15MPa/19mm mass concrete in thrust blocks around fittings including necessary additional excavations, formwork, etc	m3	1		
	TESTING				
4/2/39	Supply all the necessary apparatus, water etc. for and test the soil drainage and water supply systems to the satisfaction of the Representative/Agent and the Local Authority, rectify all defective work free of charge and leave in perfect order		ltem		
	Carried Forward to Summary of Section No. 4 Section No. 4 External works Bill No. 2			R	
	Stormwater, Soil drainage and Water Supply Tlotlanang Combined School				

Item No			Quantity	Rate	Amount
-	SECTION NO. 4				
	BILL NO. 3				
	COVERED WALKWAYS (PROVISIONAL)				
	PREAMBLES				
	NOTE: The Tenderer is referred to the relevant Clause in the seperate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.				
	EARTHWORKS				
	EXCAVATIONS				
	Excavate in earth not exceeding 2 m deep below reduced or filled up ground level for				
4/3/1	Trenches, holes, etc.	m3	492		
	Extra over trench and hole excavations for excavation in:				
4/3/2	Soft rock	m3	13		
4/3/3	Hard rock	m3	7		
	Extra over all excavations for carting away				
4/3/4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	179		
	Risk of collapse to sides of excavations				
4/3/5	Side of trench and hole excavations from natural, elevated or reduced ground level not exceeding 1500mm deep	m2	1 326		
	Keeping excavations free of water				
4/3/6	Allow for keeping all excavation free of water and mud		Item		
	FILLING, ETC:				
	Carried Forward Section No. 4			R	
	External works Bill No. 3				
	Walkways and Yardwalls Tlotlanang Combined School				

	Brought Forward			R	
	Earth filling obtained from the excavations				
4/3/7	Backfilling to trenches and holes compacted to 90% modified AASHTO density	m3	153		
	Approved non - expansive imported inert granular filling under solid floors, supplied and carted on by Contractor, compacted in layers not exceeding 150 mm to 93% HCE density				
4/3/8	Under floors, steps, pavings, etc	m3	298		
	Compaction of surfaces				
4/3/9	Compaction of ground surface under floors, trenches, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m2	464		
	Soil insecticide				
4/3/10	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	464		
4/3/11	To bottoms and sides of trenches, bases, etc	m2	714		
	Coarse river sand filling supplied by the contractor				
1/3/12	50mm thick river sand under floors, etc.	m2	464		
	CONCRETE, FORMWORK AND REINFORCEMENT				
	REINFORCED CONCRETE				
	25MPa/19mm concrete				
1/3/13	In strip footings	m3	41		
1/3/14	Surface beds on waterproofing cast in panels	m3	25		
	TEST BLOCKS				
4/3/15	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	50		
	Carried Forward Section No. 4 External works Bill No. 3 Walkways and Yardwalls			R	
	Tlotlanang Combined School				

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

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

	Brought Forward			R	
4/3/27	1,2mm thick Ridge Capping	m	288		
	STRUCTURAL STEELWORK				
	The following in hot dipped galvanized steel structure to walkways				
4/3/28	75 x 75 x 3mm wall thickness hollow section columns, mitred at angles and fitted with 150 x 150 x 3mm footplates	m	362.00		
4/3/29	60 x 40 x 2,5mm Hollow section purlin bolted to brackets	m	300.00		
	PAINTWORK				
	PAINTWORK ETC TO NEW WORK				
	ON METAL				
	One coat Plascon Namelcote Synthetic Metal Primer (UC53), one undercoat and two finishing coats 'Plascon Wall and All pure acrylic emulsion paint				
4/3/30	On steel purlins, beams and columns, etc	m2	356		
	Carried Forward to Summary of Section No. 4 Section No. 4 External works Bill No. 3 Walkways and Yardwalls Tlotlanang Combined School			R	

	Section No. 4				
	External works				
	SECTION SUMMARY - External works				
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4/2	Stormwater, Soil drainage and Water Supply	-102-			
4/3	Walkways and Yardwalls	-107-			
	Carried to Final Summary Section No. 4		R		
	External works				
	Tlotlanang Combined School				

Item No		Quantity	Rate	Amount
	SECTION NO. 5			
	BILL NO. 1			
	PROVISIONAL SUMS			
	PREAMBLES			
	For Preambles see "Model Preambles For Trades"			
	PREAMBLES: The Tenderer is referred to the relevant Clause in the seperate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.			
	WORK BY CONTRACTOR			
	BUDGETARY ALLOWANCES under this heading are for work to be executed by the contractor or a specialist sub-contractor and are to be used at the discretion of the Principal Agent and deducted in whole or in part if not required.			
	The following Provisional Sums and Prime Cost Items are net			
	The Contractor shall allow for profit and attendance after each Prime Cost Sum. Where no allowance has been made by the Contractor, it shall be assumed the allowance shall have been included elsewhere in the rates for other works.			
	DEMOLITION OF ASBESTOS			
5/1/1	Provide the sum as indicated for demolition of asbestos to be supplied by specialist including the foundations and filling material	Item		2 000 000 00
5/1/2	Allow for profit.	Item		
5/1/3	Allow for attendance.	Item		
	DEMOLITION OF BRICK STRUCTURES			
5/1/4	Provide the sum as indicated for demolition of brick work including the foundations and filling material	Item		400 000 00
5/1/5	Allow for profit.	Item		
	Carried Forward Section No. 5 Provisional sums Bill No. 1 Provisional and Prime Cost Sums Tlotlanang Combined School		R	

	Brought Forward		R		
5/1/6	Allow for attendance.	Item			
	BOREHOLE DRILLING				
5/1/7	Provide the sum as indicated for borehole drilling	Item		177 500	00
5/1/8	Allow for profit.	Item			
5/1/9	Allow for attendance.	Item			
	25 000 L PRESTANK & STAND				
5/1/10	Provide the sum as indicated for a prestank including tank stand with a hot dipp galvanised stand, cat ladder and safety barriers	Item		195 000	00
5/1/11	Allow for profit.	Item			
5/1/12	Allow for attendance.	Item			
	GEOPHYSICAL				
5/1/13	Provide the sum as indicated for geophysical	Item		60 000	00
5/1/14	Allow for profit.	Item			
5/1/15	Allow for attendance.	Item			
	LANDSCAPING (TO BE DONE BY A NOMINATED SUB-CONTRACTOR)				
5/1/16	Allow the sum as indicated for landscaping	Item		300 000	00
5/1/17	Allow for profit	Item			
5/1/18	Allow for attendance	Item			
	MECHANICAL WORKS (TO BE DONE BY A NOMINATED SUB-CONTRACTOR)				
5/1/19	Allow the sum as indicated for mechanical works	Item		300 000	00
5/1/20	Allow for profit	Item			
5/1/21	Allow for attendance	Item			
	Carried Forward Section No. 5 Provisional sums Bill No. 1 Provisional and Prime Cost Sums Tlotlanang Combined School		R		

	Brought Forward		R		
	MOBILE CLASSROOMS (TO BE DONE BY A NOMINATED SUB-CONTRACTOR)				
5/1/22	Provide the sum as indicated for Twelve (12) mobile classrooms to be supplied and installed by a firm of specialists	Item		2 300 000	00
5/1/23	Allow for profit.	Item			
5/1/24	Allow for attendance.	Item			
	ASSEMBLY SLAB				
5/1/25	Allow the sum as indicated for Assembly slab size 903m2 including foundations and water proofing	Item		300 000	00
5/1/26	Allow for profit	Item			
5/1/27	Allow for attendance	Item			
	BUDGETARY ALLOWANCE				
5/1/28	Allow the sum as indicated for Joinery.	Item		500 000	00
5/1/29	Allow the sum as indicated for furniture removal, including relocating mobile classrooms.	Item		80 000	00
5/1/30	Allow the sum as indicated for drinking fountains.	Item		50 000	00
5/1/31	Allow the sum as indicated for signage.	Item		50 000	00
5/1/32	Allow the sum as indicated for renovations.	Item		1 200 000	00
5/1/33	Allow the sum as indicated for flag posts.	Item		15 000	00
5/1/34	Allow the sum as indicated for ironmongery	Item		350 000	00
5/1/35	Allow the sum as indicated for metalwork	Item		350 000	00
	Carried to Final Summary Section No. 5		R		
	Provisional sums Bill No. 1 Provisional and Prime Cost Sums Tlotlanang Combined School				

	FINAL SUMMARY			
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2	Alterations (Provisional)	-43-		
3	Building Works	-95-		
4	External works	-108-		
5	Provisional sums	-111-		
	SUB-TOTAL (Excluding CPAP and Value Added Tax)		R	
	PART B: ELECTRICAL WORKS (SEE SEPARATE DOCUMENT)	Item		
	Allow the sum of R4 000.00 (Four Thousand Rand) per month for Community Liaison Officer		R	60 000 00
	Allow the sum of R2 000.00 (Two Thousand Rand) per month for Project Steering Committee (PSC)		R	30 000 00
	Allow the sum of R 350 000.00 (Three Hundred And Fifty Thousand Rands) for Contract Price Adjustment Provision (CPAP)		R	350 000 00
	Allow the sum of R 2 000 000.00 (Two Million Rands) for Contingencies		R	2 000 000 00
	SUB-TOTAL excluding Value Added Tax (VAT)		R	
	ADD: Value Added Tax (VAT) calculated at the rate of 15%		R	
	Carried to Form of Tender		R	
	Tlotlanang Combined School			