

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

DESCRIPTION	UNIT	P-QTY	RATE	AMOUNT
<u>SECTION NO: 1</u>	H1			
<u>BILL NO: 1 PRELIMINARIES</u>	H1			
<u>BUILDING AGREEMENT AND PRELIMINARIES</u>	H2			
<p>The JBCC Series 2000 Edition 4.1 Code 2101 March 2005 2005 edition prepared by the Joint Building Contracts Committee, shall be the agreement, amended as hereinafter described</p> <p>The Preliminaries for use with the JBCC Series 2000 Principal Building Agreement (May 2005 edition) prepared by the Joint Building Contracts Committee, shall be deemed to be incorporated in these bills of quantities</p> <p>Contractors are referred to the above-mentioned documents for the full intent and meaning of each clause thereof</p> <p>These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract 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 contrary contained in the above-mentioned documents</p> <p>Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"</p> <p>Notwithstanding anything to the contrary contained in any of the contract documents including the Principal Building Agreement and the Preliminaries, the provision of the "Preliminaries" as hereinafter set forth shall prevail and shall take precedence</p>				
<u>PREAMBLES FOR TRADES</u>				

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<p>The Model Preambles for Trades (1999 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained</p> <p>Supplementary preambles to the Model Preambles covering clauses of a general nature, clauses pertaining to specific materials and amendments to clauses in the Model Preambles are incorporated in these bills of quantities to satisfy the requirements of this project</p> <p>The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles</p> <p><u>GENERAL</u></p> <p>If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories "F", "T" or "V" as the case may be below such item, where "F" denotes a fixed amount (amount not to be varied), "T" denotes an amount variable in proportion to time and "V" denotes an amount variable in proportion to value.</p> <p><u>SECTION A - PRINCIPAL BUILDING AGREEMENT</u></p> <p><u>Definitions (A1)</u></p> <p>Definitions and interpretation (clause 1)</p> <p>F:.....V:.....T:.....</p>	<p>H2</p> <p>H2</p> <p>CONT</p> <p>ITEM</p>			
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Objective and Preparation (A2 to A14)	H2			
Offer acceptance and performance (Clause 2)	CONT			
F:.....V:.....T:.....	ITEM			
Documents (Clause 3)	CONT			
F:.....V:.....T:.....	ITEM			
Design responsibility (Clause 4)	CONT			
F:.....V:.....T:.....	ITEM			
Employer's agents (Clause 5)	CONT			
F:.....V:.....T:.....	ITEM			
<u>The principal agent shall:</u>	H3			
monitor and control progress and scheduling				
monitor all contract conditions, and				
coordinate the efforts of the employer's agents, the contractor and subcontractors				
The powers conferred on the principal agent in terms of this clause and/or the exercising of these powers shall not be construed as removing or diminishing any of the obligations of the Contractor in terms of the Principal Building Agreement, whether financial, contractual or otherwise, nor shall the exercising of these powers create any privity of contract as between the Employer or his agents on the one part and the Contractor or subcontractors or suppliers on the other part				

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<p>The principal agent reserves the right to attend and participate in all contractor/subcontractor's meetings, to invite other employer's agents to attend such meetings at his discretion and to converse and chair any such meetings if the contractor is derelict in his duty in arranging such meetings to the degree of frequency and comprehensiveness dictated in the opinion of the project manager by the circumstances and exigencies of the construction process</p>	CONT			
Site representative (Clause 6)	CONT			
<p>F:.....V:.....T:.....</p>	ITEM			
Compliance with regulations (Clause 7)	CONT			
<p>F:.....V:.....T:.....</p>	ITEM			
Works risk (Clause 8)	CONT			
<p>F:.....V:.....T:.....</p>	ITEM			
Idemnities (Clause 9)	CONT			
<p>F:.....V:.....T:.....</p>	ITEM			
Works insurances (Clause 10)	CONT			
<p>F:.....V:.....T:.....</p>	ITEM			
Liability insurances (Clause 11)	CONT			
<p>F:.....V:.....T:.....</p>	ITEM			
Effecting insurance (Clause 12)	CONT			

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F:.....V:.....T:.....	ITEM			
NO CLAUSE (Clause 13				
NO CLAUSE (Clause 13				
Security (Clause 14)	CONT			
F:.....V:.....T:.....	ITEM			
Preparation for and execution of the works (Clause 15)	CONT			
F:.....V:.....T:.....	ITEM			
Access to the works (Clause 16)	CONT			
F:.....V:.....T:.....	ITEM			
Contract instructions (Clause 17)	CONT			
F:.....V:.....T:.....	ITEM			
Setting out of the works (Clause 18)	CONT			
F.....V:.....T:.....	ITEM	1		
The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachment	CONT			
Assignment (Clause 19)	CONT			
F:.....V:.....T:.....	ITEM			

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The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer	CONT			
Nominated subcontractors (Clause 20)	CONT			
T:.....	ITEM			
Selected subcontractors (Clause 21)	CONT			
T:.....	ITEM			
Written proof is required from subcontract tenderers at tendering that they can meet the JBCC Selected Subcontract Agreement or other tender agreements and provide security in terms of the agreement. If the above is not provided the tender may not be accepted	CONT			
All amounts allowed under Provisional Amounts are intended to be awarded to Selected Subcontractors	CONT			
Employer's Direct Contractors (Clause 22)	CONT			
T:.....	ITEM			
<u>Completion (A24-A30)</u>	H2			
Practical Completion (Clause 24)	CONT			
T:.....	ITEM			
Works completion (Clause 25)	CONT			
T:.....	ITEM			
Final Completion (Clause 26)	CONT			
T:.....	ITEM			
Latent defects liability period (Clause 27)	CONT			

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T:.....	ITEM			
Sectional completion (Clause 28)	CONT			
T:.....	ITEM			
The removal and replacement of materials and/or workmanship that do not conform to specification or drawings shall not constitute grounds for an extension of the construction period for an adjustment to the contract sum (Clause 29.3)	CONT			
Penalty for non-completion (Clause 30)	CONT			
T:.....	ITEM			
Payment (A31-A35)	H2			
Interim payment to the contractor (Clause 31)	CONT			
T:.....	ITEM			
Adjustment to the contract value (Clause 32)	CONT			
T:.....	ITEM			
Where prices are submitted by the contractor or nominated/selected subcontractors during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract 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 final certificate, it will be in writing	CONT			
Recovery of expense and loss (Clause 33)	CONT			
F:..... V:..... T:.....	ITEM			
Final account and final payment (Clause 34)	CONT			
F:..... V:..... T:.....	ITEM			

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The employer shall not pay any interest on amounts payable to the contractor for one hundred and forty two (142) days after the date of issue of the certificate of practical completion	CONT			
The employer shall, however, pay interest to the contractor at the rate stipulated in clause 34.11 on any amounts payable to the contractor more than one hundred and forty two (142) days after the date of issue of the certificate of practical completion but only for such period as the settlement of the final account is delayed by the non-performance of the principal agent or the employer or his agents. In evaluating non-performance for purposes of this clause a reasonable time shall be allowed to the employer or his agents to respond to any matter brought to his/their attention and which may affect the settlement of the final account	CONT			
Payment to other parties (Clause 35)	CONT			
T:.....	ITEM			
<u>Cancellation (A36-A39)</u>	CONT			
Cancellation by employer - contractor's default (Clause 36)	CONT			
T:.....	ITEM			
Cancellation by employer - loss and damage (Clause 37)	CONT			
T:.....	ITEM			
Cancellation by contractor - employer's default (Clause 38)	CONT			
T:.....	ITEM			

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Cancellation - cessation of the works (Clause 39)	CONT			
T:.....	ITEM			
<u>Dispute (A40)</u>	H2			
Dispute Settlement (Clause 40)	CONT			
T:.....	ITEM			
<u>Substitute Provisions (A41)</u>	H2			
State clauses (Clause 41)	CONT			
T:.....	ITEM			
Information necessary for the completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder	CONT			
<u>THE SCHEDULE</u>	H2			
Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder	CONT			
Pre-tender information (Clause 42)	CONT			
T:.....	ITEM			
42.1 CONTRACTING AND OTHER PARTIES	Item			
42.1.1 Employer: THE MVULA TRUST	TX			
42.1.2 Principal Agent: R Mahange and Associates	TX			

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	<p><u>42.2 CONTRACT DETAILS</u></p> <p>42.2.1 Works Description: Construction of sanitation facilities</p> <p>42.2.2 Site Description: as per the information on the tender data</p> <p>42.2.3 Work or installations by direct contractors: N/A</p> <p>42.2.4 This agreement is for a government contract where there are specific options that are applicable to a State organ only</p> <p>Yes</p> <p>42.2.5 Date on which possession of the site is intended to be given: As per the information provided in the Tender Data</p> <p>42.2.6 Period for the commencement of the works after the contractor takes possession of site: 7 DAYS</p> <p>42.2.7 For the works as a whole. Intended date of practical completion and the penalty per calendar day Intended Date of Practical Completion: As per the information provided in the Tender Data Penalty Amount: The penalty per calendar day shall be 7.5 cents per R100 of the Tendered Amount (inclusive of value added tax)</p> <p>42.2.8 For the works in sections: Intended date of practical completion and the penalty per calendar day N/A</p> <p>42.2.9 The law applicable to this agreement shall be that of <i>South Africa (country)</i></p> <p><u>42.3 INSURANCES</u></p>	H2			
		H2			

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42.3.1 Contract works insurance to be effected by:				
42.3 INSURANCES				
Contractor:				
For the Sum of R Contract				
Amount + 10.00 %				
With a deductible of - to be determined by the contractor				
42.3.2 Supplementary insurance is required				
No				
42.3.3 Public liability insurance to be effected by:				
Contractor:				
For the Sum of				
R 5 000 000-00				
With a deductible of - to be determined by the contractor				
42.4 DOCUMENTS				
42.4.1 Waivers of contractors lien or right of continuing possession is required				
Yes				
42.4.2 Number of construction document copies to be supplied to the contractor free of charge:				
3 Number of copies				
42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with:				
“Standard System of Measuring Builders’ Work”				
42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within				
5 working days				
<i>The priced bills of quantities must be handed in with the tender</i>				

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42.4.5 JBCC Engineering General Conditions are to be included in the contract documents :				
No				
42.4.6 The contract value is to be adjusted using escalation adjustment indices				
No				
Where JBCC CPAP is to be used				
Base Month N/A				
42.4.7 Details of changes made to the provision of JBCC standard documentation:				
Part 1 - Contract Data completed by Employer				
<u>SECTION B: PRELIMINARIES</u>	H2			
<u>Definitions and interpretation (B1)</u>	H2			
Definition and interpretation (B1.1 - B1.4.6)				
T:.....	ITEM			
<u>Documents (B2)</u>	H2			
Checking of documents (B2.1)	TX			
T:.....	ITEM			
Provisional bills of quantities (B2.2)				
T:.....	ITEM			
Interests of agents (B2.4)	TX			
T:.....	ITEM			
Priced documents (B2.5)				
T:.....	ITEM			
Tender submission (B2.6)				

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T:.....	ITEM			
Defined works area (B3.1)				
T:.....	ITEM			
The site (B3)	H2			
Geotechnical investigation (B3.2)				
T:.....	ITEM			
Inspection of the site (B3.3)				
T:.....	ITEM			
Existing premises occupied (B3.4)				
T:.....	ITEM			
Specific requirements:				
The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines.				
Previous work - dimensional accuracy (B3.5)				
T:.....	ITEM			
Previous work - defects (B3.6)				
T:.....	ITEM			
Services - known (B3.7)				
T:.....	ITEM			
Services - unknown (B3.8)				
T:.....	ITEM			
Protection of trees etc. (B3.9)				
T:.....	ITEM			

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Articles of value (B3.10)				
T:.....	ITEM			
Inspection of adjoining properties etc. (B3.11)				
T:.....	ITEM			
Management of contract (B4)				
Management of the works (B4.1)				
T:.....	ITEM	1		
Programme for the works (B4.2)				
T:.....	ITEM	1		
Progress meetings (B4.3)				
T:.....	ITEM	0		
Technical meetings (B4.4)				
T:.....	ITEM	0		
Labour and Plant records (B4.5)				
T:.....	ITEM	1		
<u>Samples, Shop Drawings and Manufacturer's Instructions (B5)</u>				
Samples of materials (B5.1)				
T:.....	ITEM			
Workmanship samples (B5.2)				
T:.....	ITEM			
Shop drawings (B5.3)				
T:.....	ITEM			
Compliance with Manufacturer's Instructions (B5.4)				

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T:.....	ITEM			
Temporary works and plant (B6)				
Deposits and fees (B6.1)				
T:.....	ITEM			
Enclosure of the works (B6.2)				
T:.....	ITEM			
Advertising (B6.3)				
T:.....	ITEM			
Plant, equipment, sheds and offices (B6.4)				
T:.....	ITEM			
Main notice board (B6.5)				
T:.....	ITEM			
Subcontractors' notice board (B6.6)				
T:.....	ITEM			
Temporary services (B7)				
Location (B7.1)				
T:.....	ITEM			
Water (B7.2)				
Option [A] shall apply				
T:.....	ITEM			
Electricity (B7.3)				
Option [A] shall apply				
T:.....	ITEM			

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Telecommunication facilities (B7.4)				
T:.....	ITEM	0		
Ablution facilities (B7.5)				
T:.....	ITEM	0		
<u>Prime cost amounts (B8)</u>	H2			
Responsibility for prime cost amounts (B8.1)				
T:.....	ITEM			
Attendance on N/S Subcontractors (B9)	H2			
General attendance (B9.1)				
T:.....	ITEM			
Special attendance (B9.2)				
T:.....	ITEM			
Commissioning - Fuel, water and power (B9.3)				
T:.....	ITEM			
<u>Financial aspects (B10)</u>	H2			
Statutory taxes, duties and levies (B10.1)				
T:.....	ITEM			
Payment of preliminaries (B10.2)				
Option [B] shall apply				
T:.....	ITEM			
Adjustment of preliminaries (B10.3)				
Option [A] shall apply				
T:.....	ITEM			

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Payment certificate cash flow (B10.4)				
T:.....	ITEM			
General (B11)	H2			
Protection of works (B11.1)				
T:.....	ITEM			
Protection/isolation of existing/sectionally occupied works (B11.2)				
T:.....	ITEM			
Security of the Works (B11.3)				
T:.....	ITEM	1		
Notice before covering work (B11.4)				
T:.....	ITEM			
Disturbance (B11.5)				
T:.....	ITEM			
Environmental Disturbance (B11.6)				
Works cleaning and clearing (B11.7)				
T:.....	ITEM	0		
Vermin (B11.8)				
T:.....	ITEM			
Overhand work (B11.9)				
T:.....	ITEM			
Instruction manuals and guarantees (B11.10)				
T:.....	ITEM			
As built information (B11.11)				

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T:.....	ITEM				
Tenant Installations (B11.12)					
T:.....	ITEM				
Schedule of variables (B12)					
Pre-tender information (B12.1)					
T:.....	ITEM				
12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional:					
	No				
12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete					
	No				
12.1.3 Interest of agents (B2.4)					
12.1.4 Defined works area (B3.1)					
12.1.5 Geotechnical investigation (B3.2)					
	N/A				
12.1.6 Existing premises occupied (B3.4)					
12.1.7 Previous work - dimensional accuracy (B3.4)					
12.1.8 Previous work - defects (B3.5)					
12.1.9 Services - known (B3.7)					
12.1.10 Protection of trees (B3.9)					
All trees should be protected and only on instruction of the Principal Agent may any trees be removed					
12.1.11 Inspection of adjoining properties (B3.11)					
12.1.12 Enclosure of the works (B6.2)					
12.1.13 Offices (B6.4.3)					
Specific requirements:					

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<p>The contractor shall provide, maintain and remove, on completion of the works, an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times.</p>					
12.1.14 Main notice board (B6.5)	Yes				
12.1.15 Subcontractors notice board (B6.6) A notice board is required	Yes				
12.1.16 Water (B7.2) Alternative Selected: A					
12.1.17 Electricity (B7.3) Alternative selected: A					
12.1.18 Telecommunications (B7.4)					
12.1.19 Ablution facilities (B7.5) Alternative selected: A					
12.1.20 Protection of existing/sectionally occupied works (B11.2)					
12.1.21 Special attendance (B9.2)					
Subcontractor (1) details:	N/A				
12.1.22 Protection of the works (B11.1)	N/A				
12.1.23 Disturbance (B11.5)	N/A				
12.1.24 Environmental Disturbance (B11.6)	N/A				
<u>Post tender information (B12.2)</u>					

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12.2.1 Payment of preliminaries Alternative selected:	B				
12.2.2 Adjustment of preliminaries Alternative selected:	A				
12.2.3 Additional agreed preliminaries items	N/A				
SECTION C: SPECIFIC PRELIMINARIES					
Any special items to meet the particular circumstances of a specific project are embodied in this section. Where required for an aspect of the works to be executed according to a design by a consulting engineer, a recital of the headings to the individual clauses of the JBCC Engineering General Conditions are included					
Site instructions					
Instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor					
T:.....	ITEM				
Black economic empowerment and training					
T:.....	ITEM				
Proprietary branded products					
T:.....					
Testing of flat roof waterproofing for water tightness					

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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					
T:.....	ITEM				
The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative					
Contract instructions					
T:.....	ITEM	1			
Contract instructions issued on site are to be recorded in triplicate in a contract instruction book which is to be supplied and maintained on site by the contractor					
Labour record					
T:.....	ITEM				
At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and descriptions of tradesmen and labourers employed by him and all subcontractors on the works each day of that week					

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	<p>Plant record</p> <p>T:.....</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools used on the works each day of that week</p> <p>Guarantees</p> <p>T:.....</p> <p>Where guarantees are called for, the contractor shall obtain a written guarantee, 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 guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, 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 from the principal agent to do so. This guarantee 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. The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement</p>	ITEM	1		
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	Overtime				
	T:.....	ITEM			
	Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer				
	Co-operation of contractor for cost management				
	F:..... V:..... T:.....	ITEM	1		
	It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants 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 quantity surveyor undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor will attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures in regard to all subcontractors				
	Occupational Health and Safety Specification				
	F:..... V:..... T:.....	ITEM	1		

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<p>set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)</p> <p>It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document.</p> <p>The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total noncompliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p> <p>Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause, as well as the clauses that follow hereafter and it is explicitly</p> <p>Occupational Health and Safety Specification</p> <p>T:.....</p> <p>Preparation of contractor's site specific health and safety plan, including compliance with Covid-19 legislation, regulations and guidelines</p> <p>Occupational Health and Safety Specification</p> <p>T:.....</p> <p>Principal contractor's initial obligations in respect of the Health and Safety Act, Construction Regulations and Covid-19 regulations, etc</p>	ITEM				
	ITEM				

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Occupational Health and Safety Specification				
T:.....	ITEM	1		
Principal contractor's time related obligations in respect of the Health and Safety Act, Construction Regulations and Covid-19 regulations, etc.				
Provision of personal protective equipment (PPE)				
T:.....	ITEM	1		
Provision of reflective vests				
Provision of personal protective equipment (PPE)				
T:.....	ITEM	1		
Provision of hard hats				
Provision of personal protective equipment (PPE)				
T:.....	ITEM	1		
Provision of protective footwear				
Provision of personal protective equipment (PPE)				
T:.....	ITEM	1		
Provision of earplugs				
Provision of personal protective equipment (PPE)				
T:.....	ITEM	1		
Provision of dust masks				
Provision of personal protective equipment (PPE)				

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T:.....	ITEM	1		
Provision of gloves				
Provision of personal protective equipment (PPE)				
T:.....	ITEM	1		
Provision of high visibility overalls to SARTSM Chapter 13 Level 3				
Provision of personal protective equipment (PPE)				
T:.....	ITEM	1		
Provision of SANS approved ear defenders				
Provision of personal protective equipment (PPE)				
T:.....	ITEM			
Provision of face masks (Covid -19)				
Provision of personal protective equipment (PPE)				
T:.....	ITEM			
Provision of face shields (Covid-19)				
Provision of personal protective equipment (PPE)				
T:.....	ITEM			
Provision of gloves (Covid-19)				
Provision of personal protective equipment (PPE)				
T:.....	ITEM			

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Provision of hand sanitiser (min 70% alcohol), foot press stands and paper towels (Covid-19)					
Provision of personal protective equipment (PPE)					
T:.....	ITEM				
Provision of covered refuse bins and refuse bags and waste (including hazardous) management (Covid -19)					
Provision of personal protective equipment (PPE)					
T:.....	ITEM	1			
Provision of digital infra red non-contact body thermometer (Covid-19, minimum of two per site entrance)					
Provision of personal protective equipment (PPE)					
T:.....	ITEM				
Provision of perspex screens for office staff (Covid-19, minimum size 600 x 500mm)					
Provision of personal protective equipment (PPE)					
T:.....	ITEM				
Provision of signage, including Covid-19 related signage					
Provision of personal protective equipment (PPE)					
T:.....	ITEM				
Provision of full time construction health and safety officer (SACPCMP Registered)					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

Provision of personal protective equipment (PPE)				
T:.....	ITEM			
Medical certificates and medical surveillance including initial (baseline) medical examinations, periodic examinations, and exit examinations				
Provision of personal protective equipment (PPE)				
T:.....	ITEM	1		
Medical screenings, examinations, etc. in terms of Covid-19 regulations				
Provision of personal protective equipment (PPE)				
T:.....	ITEM			
Induction training, including Covid-19 training				
Provision of personal protective equipment (PPE)				
T:.....	ITEM			
Provision of first aid boxes to GSR requirements				
Provision of personal protective equipment (PPE)				
T:.....	ITEM			
Noise monitoring including establishment of noise zones (plant), audio grams (personnel), etc.				
T:.....	ITEM			
Submission of health and safety file				
HIV/AIDS Awareness				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

	<p>T:.....</p> <p>It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C11.1 to C11.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained.</p> <p>The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p>	ITEM			
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Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

SUMMARY OF CATEGORIES	H2
Category : Fixed R.....	
Category : Value R.....	
Category : Time R.....	
CARRIED TO SUMMARY	

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

DEMOLITIONS					
Section No. 1					
DEMOLITIONS					
BILL NO.1					
1	Allow demolitions of walls at block FD4 (Enviro loo)	Item	1		
2	Demolish existing pit toilet structures including hacking up and removing foundations and surface beds , doors , windows, ironmongery and plumbing fittings complete. All pits are to be filled with soil.	No	5		
3	Demolish existing ground slabs (max strength and size, 25MPa and 10m2 respectively) with mesh reinforcement for pit toilets that have been abandoned.All pits are to be filled with soil.	No	5		
CARRIED TO SUMMARY					
				R	-

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

REMEDIAL WORKS						
Section No. 1.2						
1	Removal of concrete	m3	17,00			
2	Pits	m3	40,00			
3	Pipe works	m	100,00			
Extra over all excavations for carting away						
4	dumping site to be located by the contractor	m3	150,00			
Allow for provisional sum for additional remedial works and making good existing works to be executed at the discretion of Principal Agent						
5		Sum	1,00	R48 898,01	R	48 898,01
CARRIED TO SUMMARY						

Section No. 3 FD4

BILL NO. 1

EARTHWORKS (PROVISIONAL)

For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades

SUPPLEMENTARY PREAMBLES

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

Nature of ground

A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured

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

Filling

Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material

Soil poisoning

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

	Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said certificate to the Principal Agent				
	SITE CLEARANCE ETC				
	<u>Site clearance</u>				
	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	65,00		
	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	65,00		
	EXCAVATION, FILLING, ETC				
	<u>Excavation in earth not exceeding 2m deep</u>				
2	Trenches	m3	18,00		
3	Pits	m3	28,00		
4	Thickening under aprons	m3	5,00		
	<u>Extra over trench and hole excavations in earth for excavation in</u>				
5	Soft rock	m3	3,00		
6	Hard rock	m3	2,00		
	<u>Extra over all excavations for carting away</u>				
	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	56,00		
	<u>Risk of collapse of excavations</u>				
	Sides of trench and hole excavations not exceeding 1,5m deep	m2	40,00		
	<u>Keeping excavations free of water</u>				
	Keeping excavations free of all water other than subterranean water	Item	1,00		

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

	<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>				
10	Under floors, steps, paving, etc	m3	8,00		
11	Backfilling to trenches, holes, etc	m3	6,00		
	<u>Compaction of surfaces</u>				
	Compaction 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				
12	AASHTO density	m2	63,00		
	Compaction 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				
13	AASHTO density (Enviro Loo Tanks Pit)	m2	30,00		
	Compaction of ground surface under aprons including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod				
14	AASHTO density including concrete ramp	m2	50,00		
	<u>Prescribed density tests on filling</u>				
15	Modified AASHTO Density	No	5,00		
	SOIL POISONING				
	<u>Weedkiller mixed in accordance to supplier's specifications</u>				
16	To bottoms and sides of trenches, etc.	m2	63,00		
	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in				
17	furrows and ramming(pits)	m2	30,00		
	Under floors, aprons etc including forming and poisoning shallow furrows against foundation walls				
18	etc, filling in furrows and ramming	m2	50,00		

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

	<u>Soil insecticide</u>				
19	To bottoms and sides of trenches etc	m2	63,00		
20	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming(pits)	m2	30,00		
21	Under floors, aprons etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	40,00		
CARRIED TO SUMMARY					R -

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>Section No. 3</u>					
<u>BILL NO. 2</u>					
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
UNREINFORCED CONCRETE, ETC.					
<u>15MPa/19mm concrete</u>					
1	Aprons cast in panels to falls	m3	5,00		
Extra over for concrete thickening in aprons size approximately 100mm deep, 400mm at top and tapering one side to 200mm at bottom, including all excavations, cart away, etc.					
2		m	30,00		
<u>25MPa/19mm concrete</u>					
3	Strip footings	m3	9,00		
4	Ramps	m3	3,00		
REINFORCED CONCRETE					
<u>25MPa/19mm concrete</u>					
5	Surface beds	m3	20,00		
6	Surface beds in pits	m3	9,00		
Extra over for thickening in pits for thickening size approximately 150mm deep, 500mm at top and tapering to 400mm at bottom, incl. all excavations, cart away, etc.					
7		m	25,00		
<u>30Mpa/19mm concrete</u>					
8	Slabs (pits)	m3	6,00		
TEST CUBES					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

9	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith	Sets	9,00		
CONCRETE SUNDRIES					
	<u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u>				
10	Surface beds, slabs, etc	m2	63,00		
11	Surface beds, slabs, etc (pits)	m2	10,80		
12	Aprons to falls	m2	35,00		
SMOOTH FORMWORK (DEGREE OF ACCURACY I)					
	<u>Smooth formwork to sides</u>				
13	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	40,00		
	<u>Permanent formwork to soffits</u>				
14	Slabs propped up not exceeding 1,5m high	m2	40,00		
15	Form 500mm radius opening in floor slab	No	6,00		
REINFORCEMENT (PROVISIONAL)					
	<u>Fabric Reinforcement</u>				
16	Mesh ref. No. 395 fabric reinforcement fixed horizontalt in surface beds ,apron etc.	m2	65,00		
CARRIED TO SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>Section No. 3</u>					
<u>BILL NO. 3</u>					
<u>MASONRY</u>					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
SUPPLEMENTARY PREAMBLES					
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					
Face bricks					
Bricks shall be ordered timeously to obtain uniformity in size and colour					
Pointing					
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc					
FOUNDATIONS (PROVISIONAL)					
<u>Corobrick "Letaba Satin Face bricks" in class II mortar</u>					
1	One brick walls	m2	20,00		
2	One brick walls in pits	m2	35,00		
3	Half brick corbelling in pit	m2	21,00		
FACE BRICKWORK					
4	Extra over brickwork for face brickwork	m2	14,50		
SUPERSTRUCTURE					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

	<u>Corobrick "Letaba Satin Face bricks" in class II mortar</u>				
5	Half brick walls	m2	30,00		
6	Half brick walls in beamfilling	m2	5,00		
7	One brick walls	m2	90,00		
	FACE BRICKWORK				
8	Extra over brickwork for face brickwork	m2	5,00		
9	Extra over brickwork for brick-on-edge header course lintel	m	10,00		
10	110mm Wide sill set level and slightly projecting	m	10,00		
11	220mm Wide sill set sloping and slightly protecting outside	m	10,00		
12	Fair cutting fitting around pipe not exceeding 100mm	No	5,00		
13	Fair cutting fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	8,00		
	BRICKWORK SUNDRIES				
	<u>Brickwork reinforcement</u>				
14	75mm Wide reinforcement built in horizontally	m	150,00		
15	150mm Wide reinforcement built in horizontally	m	680,00		
	<u>Galvanised wire ties etc</u>				
16	6mm Diameter roof tie 2m long with one end fixed to timber and other end built into brickwork	No	20,00		
	<u>Turning pieces to lintels etc.</u>				
17	115mm Wide turning pieces	m	20,00		
18	230mm Wide turning pieces	m	20,00		

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

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Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

Section No. 3					
BILL NO. 4					
WATERPROOFING					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
DAMP-PROOFING OF WALLS AND FLOORS					
<u>One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course</u>					
1	In walls	m2	20,00		
<u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>					
2	Under surface beds	m2	30,00		
3	Under aprons and ramps	m2	55,00		
FLOOR AND WALL SEALERS					
<u>Secomastic non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight</u>					
4	Around steel windows and door frames	m	50,00		
CARRIED TO SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

Section No. 3					
BILL NO. 5					
ROOF COVERINGS ETC					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
PROFILED METAL SHEETING AND ACCESSORIES					
<u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u>					
1	Roof covering with pitch not exceeding 25 degrees	m2	40		
ROOF AND WALL INSULATION					
2	12" Thermal resistance insulation laid on purlins	m2	40		
CARRIED TO SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

Section No. 3					
BILL NO. 6					
CARPENTRY AND JOINERY					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
ROOFS, ETC.					
<u>Sawn softwood grade 6</u>					
1	76 x 38mm Wall plates	m	20,00		
2	38 x 114mm Rafters in lengths exceeding 3,9m	m	50,00		
3	50 x 76mm Purlins in lengths exceeding 3,9m	m	45,00		
<u>Sundries</u>					
4	Two coats creosote on sawn timbers	m2	35,00		
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	60,00		
6	Hurricane clips	No	60,00		
EAVES, VERGES, ETC					
<u>Pressed fibre-cement:</u>					
7	15 x 230mm Nutec Fascias and barge boards including galvanised steel H-profile jointing strips	m	30,00		
DOORS, ETC					
<u>Wrought meranti doors hung to steel frames</u>					
8	44mm framed, ledged and braced door 813 x 2032mm high including external weather bar (D1)	No	1,00		
9	44mm framed, ledged and braced door 813 x 1882mm high (door raised by 150mm from bottom) (D2)	No	4,00		

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

10	44mm framed, ledged and braced door 915 x 2032mm high including extrnal weather bar (disabled)	No	1,00	
CARRIED TO SUMMARY				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>Section No. 3</u>					
<u>BILL NO. 7</u>					
<u>IRONMONGERY</u>					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
HINGES, BOLTS, ETC					
100mm Chrome plated "D" type handle 3 by solid brace hinges					
CATCHES,CABIN HOOKS, ETC					
150mm brace Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged					
1	No	6,00			
LOCKS					
<u>Approved</u>					
2	Three lever mortice lock set	No	1,00		
3	Indicator lock set	No	6,00		
4	Security double throw dead lock (no latch)	No	2,00		
5	QS Door Closer (1000mm) for disable	No	1,00		
HANDLES, ETC.					
<u>Aluminium Pull Handle</u>					
ASSA ABLOY Anodised Silver straight pull handle (Code: AL5515-300BBAS) with 300mm fixing centres.or similar					
6	sets	2,00			
<u>Aluminium kick Plate</u>					
ASSA ABLOY Anodised Silver straight kick plate (Code: AL5515-300BBAS) with 300mm fixing centres.or similar					
7	sets	2,00			
SUNDRIES					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

	ASSA ABLOY				
8	38mm Diameter rubber door stop plugged	No	6,00		
	<u>Vaal Paragon</u>				
9	32mm Type 9 back grab rail 800mm long plugged	No	1,00		
10	32mm Type 8 side grab rail 900mm girth plugged	No	1,00		
	LETTERS, NAMEPLATES, ETC				
	<u>Dorma:</u>				
11	DSS-130 Engraved "Female" information sign, plugged	No	1,00		
12	DSS-133 Engraved "Disabled" information sign, plugged	No	1,00		
	BATHROOM FITTINGS				
	<u>Sundries</u>				
	<u>Kimberley-Clark or Similar</u>				
13	SQ2 code 405607B white none lockable toilet roll holder	No	5,00		
	<u>stainless Steel</u>				
14	Stainless steel mirror size: 350 x 400mm plugged to wall with chrome plated screws.	No	1,00		
	CARRIED TO SUMMARY				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

Section No. 3				
BILL NO. 8				
METALWORK				
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades				
WELDED SCREENS, GATES, ETC				
<u>Gates to external doors</u>				
Purpose made square hollow section mild steel single security gate and frame size to fit standard				
1	door, size 813 x 2032mm high	No	1,00	
Single gate and frame size to fit none standard door,				
2	size approximately 915 x 2032mm high (disable)	No	1,00	
PRESSED STEEL DOOR FRAMES				
<u>1,2mm Double rebated frames suitable for half brick walls</u>				
3	Frame for door size 813 x 2032mm high	No	4,00	
<u>1,2mm Double rebated frames suitable for one brick walls</u>				
4	Frame for door size 813 x 2032mm high	No	1,00	
5	Frame for door size 915 x 2032mm high	No	1,00	
STEEL WINDOWS, DOORS, ETC				
<u>Nty steel or similar approved school windows with standard burglar bars formed of 20 x 5mm thick flat bars to all sashes</u>				
6	Window type NE1, size 533 x 654mm high	No	5,00	
7	Window type NE7, size 1022 x 654mm high	No	3,00	
<u>Sundries</u>				
<u>Cage, etc</u>				
She bin cages, to fit 330 x 280 x 180mm width, she bin to be able to open, including pad lock and locking				
8	mechanism, complete, etc	No	2,00	
CARRIED TO SUMMARY				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

Section No. 3		
BILL NO. 9		
PLASTERING		
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades		
GRANOLITHIC		
Untinted granolithic on concrete		
1	20mm Thick on floors	m2 30,00
INTERNAL PLASTER		
<u>Cement plaster on brickwork or blockwork</u>		
2	On internal plastered walls(pits)	m2 70,00
FLOOR AND WALLS SEALERS		
<u>Minimum two coats approved epoxy coat:</u>		
3	On Floor	m2 30,00
4	On pits	m2 130,00
CARRIED TO SUMMARY		

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>Section No. 3</u>					
<u>BILL NO. 10</u>					
<u>PLUMBING AND DRAINAGE(PROVISIONAL)</u>					
RAINWATER DISPOSAL					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
<u>Aluminium Zinc Seamless Gutters</u>					
1	100 x 100mm sandard rainwater gutters fixed with gutter brackets	m	10,00		
2	Extra over eaves gutter for stopped end	No	2,00		
3	75 x 100mm Diameter rainwater down pipes to rainfall water havesty tanks	m	2,00		
4	Extra over eaves gutter for outlet for 75 x 100mm down pipe	No	2,00		
5	Ditto .for shoe	No	2,00		
SANITARY FITTINGS					
<u>"Vaal" or similar and approved</u>					
6	Ceramic wall mounted wash hand basin, complete with all fittings and accesseries including cutting & making good wall & floor wherever required for disable toilets.	No	1,00		
SUPPLY AND INSTALL "ENVIRO-LOO" TOILET SYSTEMS					
7	Enviroloo Industrial Standard seat system complete, (Code: FG-1040STDCA/B3)	No	4,00		
8	Enviroloo Inspections including COC	No	2,00		
PRECAST CONCRETE WASH HAND TROUGH					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

9	Standard SABS approved Pre-Cast Concrete Double Wash Trough, 1080 x 650 x 850mm high with support legs fitted with standard 3/4 Brass Garden Taps, fixed complete to berick wall, including all necessary pipework, including soak away as per 'Engineers detail'.	No	1,00		
	<u>Rainwater tank, etc.</u>				
10	2500 Litre watertank fitted onto and secured to tank platforms including fastening cables	No	1,00		
	SOIL DRAINAGE				
	<u>uPVC pipes</u>				
11	110mm Pipes laid in and including trenches not exceeding 1m deep	m	20,00		
	<u>Extra over uPVC pipes for fittings</u>				
12	110mm Bend	No	3,00		
13	110mm Junction	No	2,00		
	<u>uPVC gulleys</u>				
14	110mm Gulley not exceeding 750mm deep, including excavations, pre-cast concrete surround etc.	No	2,00		
	TRAPS ETC				
	<u>Marley</u>				
15	40 x 300mm Sink combination for double bowl with deepseal "P" trap	No	2,00		
	TAPS, VALVES, ETC				
16	Cobra Watertech 15mm compression type angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).	No	2,00		
17	Cobra Watertech 15mm chrome plated bibtap (Code: NM-500-21B) with blue indice and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412).	No	2,00		

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

	SANITARY PLUMBING				
	<u>uPVC pipes</u>				
18	50mm Pipes	m	35,00		
	<u>Extra over uPVC pipes for fittings</u>				
19	50mm Bend	No	2,00		
20	50mm Access bend	No	2,00		
21	50mm Junction	No	2,00		
	WATER SUPPLIES				
	<u>Class 0 copper pipes</u>				
22	15mm Pipes	m	2,00		
23	22mm Pipes	m	2,00		
	<u>Extra over class 0 copper pipes for capillary fittings</u>				
24	15mm Fittings	No	2,00		
25	22mm Pipes	No	2,00		
	TESTING				
	Allow for testing all drains, sanitary plumbing, water supplies and installtion to the satisfaction of the				
26	Principle Agent.	item	1,00		
	CARRIED TO SUMMARY				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>Section No. 3</u>					
<u>BILL NO. 12</u>					
<u>GLAZING</u>					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
GLAZING TO STEEL WITH PUTTY					
6,38mm Obscure safety glass					
1	Panes not exceeding 0,1 m2	m2	6,00		
CARRIED TO SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

	<p><u>Section No. 3</u></p> <p><u>BILL NO. 13</u></p> <p><u>PAINTWORK</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</p> <p>PAINTWORK ETC TO NEW WORK</p> <p>PREPARATORY WORK TO EXISTING WORK</p> <p>Previously painted plastered surfaces</p> <p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</p> <p>Previously painted metal surfaces</p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p>Previously painted wood surfaces</p> <p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</p> <p>ON FIBRE-CEMENT</p> <p><u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u></p>				
1	On fascias and barge boards	m2	30,00		
	ON METAL				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

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Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

BIL		PAGE					
L	SECTION SUMMARY -FD4	NO					
NO							
	1 EARTHWORKS (PROVISIONAL)						
	2 CONCRETE, FORMWORK & REINFORCEMENT						
	3 MASONRY						
	4 WATERPROOFING						
	5 ROOF COVERINGS, ETC						
	6 CARPENTRY AND JOINERY						
	7 IRONMONGERY						
	8 METALWORK						
	9 PLASTERING						
	10 PLUMBING AND DRAINAGE (PROVISIONAL)						
	11 GLAZING						
	12 PAINTWORK						
	CARRIED TO FINAL SUMMARY						

SD8					
<u>Section No. 4</u>					
<u>BILL NO. 1</u>					
<u>EARTHWORKS (PROVISIONAL)</u>					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
SUPPLEMENTARY PREAMBLES					
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					
Nature of ground					
A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured					
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					
Filling					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

	Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material				
	Soil poisoning				
	Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said certificate to the Principal Agent				
	SITE CLEARANCE ETC				
	<u>Site clearance</u>				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	50,00		
	EXCAVATION, FILLING, ETC				
	<u>Excavation in earth not exceeding 2m deep</u>				
2	Thickening under aprons	m3	10,00		
3	Compaction of ground surface under aprons, ramp including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m2	50,00		
	<u>Prescribed density tests on filling</u>				
4	Modified AASHTO Density	No	3,00		
	SOIL POISONING				
5	Under floors, aprons, ramp, etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	50,00		
	CARRIED TO SUMMARY				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

Section No. 4				
BILL NO. 2				
CONCRETE, FORMWORK AND REINFORCEMENT				
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades				
UNREINFORCED CONCRETE, ETC.				
<u>15MPa/19mm concrete</u>				
1	Aprons cast in panels to falls	m3	8,00	
<u>25MPa/19mm concrete</u>				
2	Ramps	m3	3,00	
REINFORCED CONCRETE				
<u>25MPa/19mm concrete</u>				
3	Surface beds	m3	30,00	
TEST CUBES				
Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing				
4	and paying all charges in connection therewith	Sets	6,00	
CONCRETE SUNDRIES				
<u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u>				
5	Aprons to falls, ramp etc	m2	50,00	
REINFORCEMENT (PROVISIONAL)				
<u>Fabric Reinforcement</u>				
Mesh ref. No. 395 fabric reinforcement fixed				
6	horizontal in surface beds etc.	m2	50,00	
CARRIED TO SUMMARY				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>SECTION NO. 1</u>				
<u>BILL NO. 3</u>				
<u>MASONRY</u>				
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades				
SUPPLEMENTARY PREAMBLES				
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				
Face bricks				
Bricks shall be ordered timeously to obtain uniformity in size and colour				
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				
<u>Corobrick "Letaba Satin Face bricks" in class II mortar</u>				
1	Half brick walls in beamfilling	m2	37,00	
2	One brick walls	m2	30,00	
FACE BRICKWORK				
3	Extra over brickwork for face brickwork	m2	13,40	
CARRIED TO SUMMARY				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

Section No. 4					
BILL NO. 4					
WATERPROOFING					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
DAMP-PROOFING OF WALLS AND FLOORS					
<u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>					
1	Under, surface bed, aprons and ramps	m2	95,85		
FLOOR AND WALL SEALERS					
<u>Secomastic non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight</u>					
2	Around steel windows and door frames	m	52,00		
CARRIED TO SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

Section No. 4					
BILL NO. 5					
ROOF COVERINGS ETC					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
PROFILED METAL SHEETING AND ACCESSORIES					
<u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u>					
1	Carefully remove roof covering with pitch not exceeding 25 degrees and re install	m2	62,00		
2	Allow new roof covering with pitch not exceeding 25 degrees complete	m2	62,00		
ROOF AND WALL INSULATION					
3	12" Thermal resistance insulation laid on purlins	m2	62,00		
CARRIED TO SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

Section No. 4					
BILL NO. 6					
CARPENTRY AND JOINERY					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
ROOFS, ETC.					
<u>Sawn softwood grade 6</u>					
1	76 x 38mm Wall plates	m	32,68		
2	38 x 114mm Rafters in lengths exceeding 3,9m	m	32,68		
3	50 x 76mm Purlins in lengths exceeding 3,9m	m	32,68		
<u>Sundries</u>					
4	Two coats creosote on sawn timbers	m2	40,00		
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	95,00		
6	Hurricane clips	No	120,00		
EAVES, VERGES, ETC					
<u>Pressed fibre-cement:</u>					
7	15 x 230mm Nutec Fascias and barge boards including galvanised steel H-profile jointing strips	m	30,00		
DOORS, ETC					
<u>Wrought meranti doors hung to steel frames</u>					
8	44mm framed, ledged and braced door 813 x 2032mm high including external weather bar (D1)	No	2,00		
9	44mm framed, ledged and braced door 813 x 1882mm high (door raised by 150mm from bottom) (D2)	No	8,00		

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

10	44mm framed, ledged and braced door 915 x 2032mm high including extrnal weather bar (disabled)	No	1,00	
CARRIED TO SUMMARY				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>Section No. 4</u>						
<u>BILL NO. 7</u>						
<u>IRONMONGERY</u>						
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades						
HINGES, BOLTS, ETC						
100mm Chrome plated "D" type handle 3 by solid brace hinges						
CATCHES,CABIN HOOKS, ETC						
100mm brace Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged						
1	No	3,00				
LOCKS						
<u>Approved</u>						
2	Three lever mortice lock set	No	2,00			
3	Indicator lock set	No	9,00			
4	Security double throw dead lock (no latch)	No	3,00			
HANDLES, ETC.						
<u>Aluminium Pull Handle</u>						
ASSA ABLOY Anodised Silver straight pull handle (Code: AL5515-300BBAS) with 300mm fixing centres.						
5	sets	2,00				
SUNDRIES						
ASSA ABLOY						
6	38mm Diameter rubber door stop plugged	No	11,00			
<u>Vaal Paragon</u>						
7	32mm Type 9 back grab rail 800mm long plugged	No	1,00			

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

8	32mm Type 8 side grab rail 900mm girth plugged	No	1,00		
LETTERS, NAMEPLATES, ETC					
<u>Dorma:</u>					
9	DSS-130 Engraved "Male" information sign, plugged	No	1,00		
10	DSS-131 Engraved "Female" information sign, plugged (item 10, pg 51)	No	1,00		
11	DSS-133 Engraved "Disabled" information sign, plugged	No	1,00		
BATHROOM FITTINGS					
<u>Sundries</u>					
<u>Kimberley-Clark or Similar</u>					
12	SQ2 code 405607B white none lockable toilet roll holder	No	9,00		
<u>stainless Steel</u>					
13	Stainless steel mirror size: 350 x 400mm plugged to wall with chrome plated screws.	No	3,00		
14	Brushed stainless steel body, rust resistant, she bin, including the cage, approximately 330 x 280 x 180mm	No	3,00		
CARRIED TO SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

Section No. 4					
BILL NO. 8					
METALWORK					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
WELDED SCREENS, GATES, ETC					
<u>Gates to external doors</u>					
Purpose made square hollow section mild steel single security gate and frame size to fit standard					
1	door, size 813 x 2032mm high	No	2,00		
Single gate and frame size to fit none standard door,					
2	size approximately 915 x 2032mm high (disable)	No	1,00		
CARRIED TO SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>Section No. 4</u>					
<u>BILL NO. 9</u>					
<u>PLASTERING</u>					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
<u>GRANOLITHIC</u>					
Untinted granolithic on concrete					
1	20mm Thick on floors	m2	48,00		
<u>FLOOR AND WALLS SEALERS</u>					
<u>Minimum two coats approved epoxy coat:</u>					
2	On floors	m2	56,00		
CARRIED TO SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>Section No. 4</u>						
<u>BILL NO. 10</u>						
<u>PLUMBING AND DRAINAGE(PROVISIONAL)</u>						
RAINWATER DISPOSAL						
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades						
<u>Aluminium Zinc Seamless Gutters</u>						
1	100 x 100mm sandard rainwater gutters fixed with gutter brackets	m	20,00			
2	Extra over eaves gutter for stopped end	No	2,00			
3	75 x 100mm Diameter rainwater down pipes to rainfall water harvesting tanks	m	10,00			
4	Extra over eaves gutter for outlet for 75 x 100mm down pipe	No	2,00			
5	Ditto .for shoe	No	2,00			
SANITARY FITTINGS						
<u>"Vaal" or similar and approved</u>						
6	Ceramic wall mounted wash hand basin, complete with all fittings and accesseries including cutting & making good wall & floor wherever required for disable toilets.	No	7,00			
7	Paraplegic floor mounted suite with purpose made flush lever, etc. Complete with all fittings and accesseries including cutting & making good wall & floor wherever required.	No	1,00			
8	Vitreous china urinal. Complete with all fittings and accesseries including cutting & making good wall & floor wherever required.	No	3,00			

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

9	Floor mounted suite with purpose made flush lever, etc. Complete with all fittings and accessories including cutting & making good wall & floor wherever required.	No	7,00		
10	PRECAST CONCRETE WASH HAND TROUGH				
11	Standard SABS approved Pre-Cast Concrete Double Wash Trough, 1080 x 650 x 850mm high with support legs fitted with standard 3/4 Brass Garden Taps, fixed complete to berick wall, including all necessary pipework, including soak away as per 'Engineers detail'.	No	2,00		
	SOIL DRAINAGE				
	<u>uPVC pipes</u>				
12	110mm Pipes laid in and including trenches not exceeding 1m deep	m	55,00		
	<u>Extra over uPVC pipes for fittings</u>				
13	110mm Bend	No	5,00		
14	110mm Junction	No	3,00		
	<u>uPVC gulleys</u>				
15	110mm Gulley not exceeding 750mm deep, including excavations, pre-cast concrete surround etc.	No	3,00		
	TRAPS ETC				
	<u>Marley</u>				
16	40 x 300mm Sink combination for double bowl with deepseal "P" trap	No	7,00		
	TAPS, VALVES, ETC				
17	Cobra Watertech 15mm compression type angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).	No	7,00		
18	Cobra Watertech 15mm chrome plated bibtap (Code: NM-500-21B) with blue indice and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412).	No	7,00		

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

	SANITARY PLUMBING				
	<u>uPVC pipes</u>				
19	50mm Pipes	m	60,00		
	<u>Extra over uPVC pipes for fittings</u>				
20	50mm Bend	No	12,00		
21	50mm Access bend	No	12,00		
22	50mm Junction	No	12,00		
	WATER SUPPLIES				
	<u>Class 0 copper pipes</u>				
23	15mm Pipes	m	20,00		
24	22mm Pipes	m	15,00		
	<u>Extra over class 0 copper pipes for capillary fittings</u>				
25	15mm Fittings	No	5,00		
26	22mm Pipes	No	3,00		
	SUNDRIES				
27	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock	m3	20,00		
28	Ditto, but in hard rock	m3	4,00		
29	Extra over excavation for pipe trenches, chambers, etc for carting away surplus material to a dumping site to be located by the contractor	m3	5,00		
30	Extra over backfilling to drain trenches, chambers, etc for suitable earth backfilling supplied by the contractor	m3	10,00		
	CARRIED TO SUMMARY				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>Section No. 4</u>					
<u>BILL NO. 11</u>					
<u>GLAZING</u>					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
GLAZING TO STEEL WITH PUTTY					
6,38mm Obscure safety glass					
1	Panes not exceeding 0,1 m2	m2	4,00		
CARRIED TO SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

	<p><u>Section No. 4</u></p> <p><u>BILL NO. 12</u></p> <p><u>PAINTWORK</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</p> <p>PAINTWORK ETC TO NEW WORK</p> <p>PREPARATORY WORK TO EXISTING WORK</p> <p>Previously painted plastered surfaces</p> <p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</p> <p>Previously painted metal surfaces</p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p>Previously painted wood surfaces</p> <p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</p> <p>ON FIBRE-CEMENT</p> <p><u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u></p>				
1	On fascias and barge boards	m2	35,00		
	<p>ON METAL</p>				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

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Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

BIL L NO	SECTION SUMMARY -SD8	PAGE NO				
	1 EARTHWORKS (PROVISIONAL)					
	2 CONCRETE, FORMWORK & REINFORCEMENT					
	3 MASONRY					
	4 WATERPROOFING					
	5 ROOF COVERINGS, ETC					
	6 CARPENTRY AND JOINERY					
	7 IRONMONGERY					
	8 METALWORK					
	9 PLASTERING					
	10 PLUMBING AND DRAINAGE (PROVISIONAL)					
	11 GLAZING					
	12 PAINTWORK					
	CARRIED TO FINAL SUMMARY					

Section No. 5

BILL NO. 1

GR R6 Waterborne

EARTHWORKS (PROVISIONAL)

For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades

SUPPLEMENTARY PREAMBLES

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

Nature of ground

A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured

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

Filling

Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

	Soil poisoning				
	Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said certificate to the Principal Agent				
	EARTHWORKS (PROVISIONAL)				
	SITE CLEARANCE ETC				
	<u>Site clearance</u>				
	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc				
1		m2	60,00		
	EXCAVATION, FILLING, ETC				
	<u>Excavation in earth not exceeding 2m deep</u>				
2	Thickening under aprons	m3	10,00		
	<u>Compaction of surfaces</u>				
	Compaction of ground surface under aprons and ramp etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density				
3		m2	45,00		
	Under floors, steps, paving, etc.				
	<u>Prescribed density tests on filling</u>				
4	Modified AASHTO Density	No	6,00		
	CARRIED TO SUMMARY				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

Section No. 5					
BILL NO. 2					
CONCRETE, FORMWORK AND REINFORCEMENT					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
UNREINFORCED CONCRETE, ETC.					
<u>15MPa/19mm concrete</u>					
1	Aprons cast in panels to falls	m3	5,00		
TEST CUBES					
Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing					
2	and paying all charges in connection therewith	Sets	3,00		
CONCRETE SUNDRIES					
<u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u>					
3	Aprons, slabs, etc	m2	45,00		
REINFORCEMENT (PROVISIONAL)					
<u>Fabric Reinforcement</u>					
Mesh ref. No. 395 fabric reinforcement fixed					
4	horizontal in surface beds etc.	m2	45,00		
CARRIED TO SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>Section No. 5</u>					
<u>BILL NO. 3</u>					
<u>MASONRY</u>					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
SUPPLEMENTARY PREAMBLES					
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					
Face bricks					
Bricks shall be ordered timeously to obtain uniformity in size and colour					
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					
<u>Corobrick "Letaba Satin Face bricks" in class II mortar</u>					
1	Half brick walls in beamfilling .	m2	45,00		
2	One brick walls	m2	30,00		
CARRIED TO SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

Section No. 5					
BILL NO. 4					
WATERPROOFING					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
FLOOR AND WALL SEALERS					
<u>Secomastic non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight</u>					
1	Around steel windows and door frames	m	60,00		
<u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>					
2	Under aprons and ramps	m2	50,00		
CARRIED TO SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>Section No. 5</u>					
<u>BILL NO. 5</u>					
<u>ROOF COVERINGS ETC</u>					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>					
<u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u>					
Carefully remove roof covering with pitch not exceeding 25 degrees, the cost must include both					
1	removal and re-intallation	m2	55,00		
Allow new roof to be covered with a pitch not					
2	exceeding 25 degrees complete.	m2	55,00		
<u>ROOF AND WALL INSULATION</u>					
3	12" Thermal resistance sisalation laid on purlins	m2	55,00		
<u>CARRIED TO SUMMARY</u>					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>Section No. 5</u>					
<u>BILL NO. 6</u>					
<u>CARPENTRY AND JOINERY</u>					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
ROOFS, ETC.					
<u>Sawn softwood grade 6</u>					
1	76 x 38mm Wall plates	m	27,10		
2	38 x 114mm Rafters in lengths exceeding 3,9m	m	27,10		
3	50 x 76mm Purlins in lengths exceeding 3,9m	m	27,10		
<u>Sundries</u>					
4	Two coats creosote on sawn timbers	m2	20,00		
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	105,00		
6	Hurricane clips	No	105,00		
EAVES, VERGES, ETC					
<u>Pressed fibre-cement:</u>					
7	15 x 230mm Nutec Fascias and barge boards including galvanised steel H-profile jointing strips	m	20,00		
DOORS, ETC					
<u>Wrought meranti doors hung to steel frames</u>					
8	44mm framed, ledged and braced door 813 x 2032mm high including external weather bar (D1) including removal and installation	No	4,00		
9	44mm framed, ledged and braced door 813 x 1882mm high (door raised by 150mm from bottom) (D2) including removal and installation	No	6,00		
CARRIED TO SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

Section No. 5					
BILL NO. 7					
IRONMONGERY					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
HINGES, BOLTS, ETC					
100mm Chrome plated "D" type handle 3 by solid brace hinges					
LOCKS					
<u>Approved</u>					
1	Three lever mortice lock set	No	3,00		
HANDLES, ETC.					
2	Brass peg Stay	No	6,00		
3	Indicator lock set	No	1,00		
4	Security double throw dead lock (no latch)	No	4,00		
5	QS Door Closer (1000mm) for disable	No	1,00		
HANDLES, ETC.					
<u>Aluminium Pull Handle</u>					
ASSA ABLOY Anodised Silver straight pull handle (Code: AL5515-300BBAS) with 300mm fixing centres.or similar					
6		sets	2,00		
<u>Aluminium kick Plate</u>					
ASSA ABLOY Anodised Silver straight kick plate (Code: AL5515-300BBAS) with 300mm fixing centres.or similar					
7		sets	2,00		
SUNDRIES					
ASSA ABLOY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

8	38mm Diameter rubber door stop plugged	No	4,00	
	<u>Vaal Paragon</u>			
9	32mm Type 9 back grab rail 800mm long plugged	No	1,00	
10	32mm Type 8 side grab rail 900mm girth plugged	No	1,00	
	LETTERS, NAMEPLATES, ETC			
	<u>Dorma:</u>			
11	DSS-130 Engraved "Female" information sign, plugged	No	1,00	
12	DSS-133 Engraved "Disabled" information sign, plugged	No	1,00	
13	DSS-133 Engraved "Male" information sign, plugged	No	1,00	
	<u>Sundries</u>			
	<u>Cage, etc</u>			
14	She bin cages, to fit 330 x 280 x 180mm width, she bin to be able to open, including pad lock and locking mechanism, complete, etc	No	2,00	
	CARRIED TO SUMMARY			

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>Section No. 5</u>					
<u>BILL NO. 8</u>					
<u>METALWORK</u>					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
WELDED SCREENS, GATES, ETC					
<u>Gates to external doors</u>					
Purpose made square hollow section mild steel single security gate and frame size to fit standard door, size 813 x 2032mm high					
1		No	3,00		
Single gate and frame size to fit none standard door, size approximately 915 x 2032mm high (disable)					
2		No	1,00		
CARRIED TO SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>Section No. 5</u>					
<u>BILL NO. 9</u>					
<u>PLASTERING</u>					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
GRANOLITHIC					
Untinted granolithic on concrete					
1	20mm Thick on floors	m2	40,00		
FLOOR AND WALLS SEALERS					
<u>Minimum two coats approved epoxy coat:</u>					
2	On floors	m2	40,00		
CARRIED TO SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>Section No. 5</u>					
<u>BILL NO. 10</u>					
<u>PLUMBING AND DRAINAGE(PROVISIONAL)</u>					
SANITARY FITTINGS					
1	Paraplegic floor mounted suite with purpose made flush lever, etc. Complete with all fittings and accesseries including cutting & making good wall & floor wherever required.	No	1,00		
2	Vitreous china urinal. Complete with all fittings and accesseries including cutting & making good wall & floor wherever required.	No	4,00		
3	Ceramic wall mounted wash hand basin, complete with all fittings and accesseries including cutting & making good wall & floor wherever required for disable toilets.	No	5,00		
4	Floor mounted suite with purpose made flush lever, etc. Complete with all fittings and accesseries including cutting & making good wall & floor wherever required.	No	6,00		
SOIL DRAINAGE					
<u>uPVC pipes</u>					
5	110mm Pipes laid in and including trenches not exceeding 1m deep	m	50,00		
<u>Extra over uPVC pipes for fittings</u>					
6	110mm Bend	No	3,00		
7	110mm Junction	No	2,00		
<u>uPVC gulleys</u>					
8	110mm Gulley not exceeding 750mm deep, including removal of existing , pre-cast concrete sorround etc.	No	2,00		

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

WASTE UNIONS ETC					
<u>"Cobra Watertech"</u>					
9	Cobra Watertech 32mm chrome plated basin waste (code: 308) with 62mm diameter flange, 80mm long shank and plug	No	5,00		
TRAPS ETC					
<u>"Cobra Watertech"</u>					
<u>Marley</u>					
10	40 x 300mm Sink combination for double bowl with deepseal "P" trap	No	5,00		
TAPS, VALVES, ETC					
11	Cobra Watertech 15mm compression type angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).	No	5,00		
12	Cobra Watertech 15mm chrome plated bibtap (Code: NM-500-21B) with blue indice and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412).	No	5,00		
SANITARY PLUMBING					
<u>uPVC pipes</u>					
13	50mm Pipes	m	45,00		
<u>Extra over uPVC pipes for fittings</u>					
14	50mm Bend	No	8,00		
15	50mm Access bend	No	5,00		
16	50mm Junction	No	10,00		
WATER SUPPLIES					
<u>Class 0 copper pipes</u>					
17	15mm Pipes	m	45,00		

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

18	22mm Pipes	m	45,00		
	<u>Extra over class 0 copper pipes for capillary fittings</u>				
19	15mm Fittings	No	30,00		
20	22mm Pipes	No	20,00		
	SUNDRIES				
	TESTING				
	Allow for testing all drains, sanitary plumbing, water supplies and installtion to the satisfaction of the				
21	Principle Agent.	item	1,00		
	CARRIED TO SUMMARY				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

BILL NO. 12					
GLAZING					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
GLAZING TO STEEL WITH PUTTY					
6,38mm Obscure safety glass					
1	Panes not exceeding 0,1 m2	m2	6,00		
CARRIED TO SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

Section No. 3				
BILL NO. 13				
PAINTWORK				
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades				
PAINTWORK ETC TO NEW WORK				
PREPARATORY WORK TO EXISTING WORK				
Previously painted plastered surfaces				
Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth				
Previously painted metal surfaces				
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal				
Previously painted wood surfaces				
Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth				
ON FIBRE-CEMENT				
<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u>				
1	On fascias and barge boards	m2	30,00	
ON METAL				
<u>Prime and paint undercoat and 2 finishing coats in gloss enamel, colour TBC.</u>				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

2	On door frames	m2	15,00		
	<u>Spot prining defects in pre-prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP. golden brown gloss enamel paint on steel</u>				
3	On windows with burglar bars	m2	10,00		
	<u>1 coat zinc chromate primer minimum and 2 coats gloss enamel (Exterior Quality)</u>				
4	On gates (Measured over the full flat area of both sides)	m2	10,00		
	ON WOOD				
	<u>Under coat and minimum 2 coats gloss enamel, colour TBC</u>				
5	On doors (External)	m2	10,00		
6	On doors (Internal)	m2	16,50		
CARRIED TO SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

NO	SECTION SUMMARY -GR 6	PAGE NO			
1	EARTHWORKS (PROVISIONAL)				
2	CONCRETE, FORMWORK & REINFORCEMENT				
3	MASONRY				
4	WATERPROOFING				
5	ROOF COVERINGS, ETC				
6	CARPENTRY AND JOINERY				
7	IRONMONGERY				
8	METALWORK				
9	PLASTERING				
10	PLUMBING AND DRAINAGE (PROVISIONAL)				
11	GLAZING				
12	PAINTWORK				
	CARRIED TO FINAL SUMMARY				

MD7- ENVIROLOO

Bill No.5

Section No. 2

BILL NO. 1

EARTHWORKS (PROVISIONAL)

For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades

SUPPLEMENTARY PREAMBLES

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

Nature of ground

A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured

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

Filling

Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

	Soil poisoning				
	Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said certificate to the Principal Agent				
	SITE CLEARANCE ETC				
	<u>Site clearance</u>				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	75,00		
	EXCAVATION, FILLING, ETC				
	<u>Excavation in earth not exceeding 2m deep</u>				
2	Thickening under aprons and ramp	m3	10,00		
3	Compaction of ground surface under aprons and ramp including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m2	55,00		
	SOIL POISONING				
	<u>Weedkiller mixed in accordance to supplier's specifications</u>				
4	Under floors, aprons, ramps etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	55,00		
	<u>Soil insecticide</u>				
5	Under floors, aprons, ramp etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	55,00		
	CARRIED TO SUMMARY				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

Section No. 6				
BILL NO. 2				
CONCRETE, FORMWORK AND REINFORCEMENT				
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades				
UNREINFORCED CONCRETE, ETC.				
<u>15MPa/19mm concrete</u>				
1	Aprons cast in panels to falls	m3	4,00	
<u>25MPa/19mm concrete</u>				
2	Ramps	m3	3,00	
REINFORCED CONCRETE				
TEST CUBES				
Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing				
3	and paying all charges in connection therewith	Sets	3,00	
CONCRETE, FORMWORK AND REINFORCEMENT				
CONCRETE SUNDRIES				
<u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u>				
4	Aprons to falls and ramp	m2	40,00	
SMOOTH FORMWORK (DEGREE OF ACCURACY I)				
<u>Fabric Reinforcement</u>				
Mesh ref. No. 395 fabric reinforcement fixed				
5	horizontal in surface beds etc.	m2	5,00	
CARRIED TO SUMMARY				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>SECTION NO. 1</u>					
<u>BILL NO. 3</u>					
<u>MASONRY</u>					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
SUPPLEMENTARY PREAMBLES					
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					
Face bricks					
Bricks shall be ordered timeously to obtain uniformity in size and colour					
Pointing					
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc					
FACE BRICKWORK					
<u>Corobrick "Letaba Satin Face bricks" in class II mortar</u>					
1	Half brick walls in beamfilling	m2	30,00		
2	In pits	m2	40,00		
3	One brick wall	m2	30,00		
CARRIED FORWARD					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>Section No. 6</u>					
<u>BILL NO. 4</u>					
<u>WATERPROOFING</u>					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
DAMP-PROOFING OF WALLS AND FLOORS					
<u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>					
1	Under aprons and ramps	m2	25,00		
2	In pits	m2	100,00		
FLOOR AND WALL SEALERS					
<u>Secomastic non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight</u>					
3	Around steel windows and door frames	m	60,00		
CARRIED TO SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

Section No. 6					
BILL NO. 5					
ROOF COVERINGS ETC					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
PROFILED METAL SHEETING AND ACCESSORIES					
<u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u>					
1	Carefully remove roof covering with pitch not exceeding 25 degrees and re install	m2	45,00		
2	Allow new roof covering with pitch not exceeding 25 degrees complete	m2	45,00		
ROOF AND WALL INSULATION					
3	12" Thermal resistance insulation laid on purlins	m2	45,00		
CARRIED TO SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

Section No. 6				
BILL NO. 6				
CARPENTRY AND JOINERY				
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades				
ROOFS, ETC.				
<u>Sawn softwood grade 6</u>				
1	76 x 38mm Wall plates	m	35,00	
2	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	35,00	
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	28,00	
<u>Sundries</u>				
4	Two coats creosote on sawn timbers	m2	40,00	
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	105,00	
6	Hurricane clips	No	105,00	
EAVES, VERGES, ETC				
<u>Pressed fibre-cement:</u>				
7	15 x 230mm Nutec Fascias and barge boards including galvanised steel H-profile jointing strips	m	33,00	
DOORS, ETC				
8	44mm framed, ledged and braced door 813 x 2032mm high (door raised by 150mm from bottom) D1	No	3,00	
9	44mm framed, ledged and braced door 813 x 1882mm high (door raised by 150mm from bottom) (D2)	No	6,00	
CARRIED TO SUMMARY				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>Section No. 6</u>						
<u>BILL NO. 7</u>						
<u>IRONMONGERY</u>						
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades						
HINGES, BOLTS, ETC						
100mm Chrome plated "D" type handle 3 by solid brace hinges						
CATCHES,CABIN HOOKS, ETC						
100mm brace Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged						
1		No	3,00			
LOCKS						
<u>Approved</u>						
2	Indicator lock set	No	7,00			
3	Security double throw dead lock (no latch)	No	3,00			
HANDLES, ETC.						
<u>Aluminium Pull Handle</u>						
ASSA ABLOY Anodised Silver straight pull handle (Code: AL5515-300BBAS) with 300mm fixing centres.						
4		No	9,00			
SUNDRIES						
ASSA ABLOY						
5	38mm Diameter rubber door stop plugged	No	9,00			
<u>Vaal Paragon</u>						
6	32mm Type 9 back grab rail 800mm long plugged	No	1,00			

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

7	32mm Type 8 side grab rail 900mm girth plugged	No	1,00		
	LETTERS, NAMEPLATES, ETC				
	<u>Dorma:</u>				
8	DSS-130 Engraved "Male" information sign, plugged	No	2,00		
9	DSS-133 Engraved "Disabled" information sign, plugged	No	1,00		
	BATHROOM FITTINGS				
	<u>Sundries</u>				
	<u>Kimberley-Clark or Similar</u>				
10	SQ2 code 405607B white none lockable toilet roll holder	No	7,00		
	<u>stainless Steel</u>				
11	Stainless steel mirror size: 350 x 400mm plugged to wall with chrome plated screws.	No	3,00		
	CARRIED TO SUMMARY				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>Section No. 6</u>					
<u>BILL NO. 8</u>					
<u>METALWORK</u>					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
WELDED SCREENS, GATES, ETC					
<u>Gates to external doors</u>					
Purpose made square hollow section mild steel single security gate and frame size to fit standard door, size 813 x 2032mm high					
1		No	2,00		
Single gate and frame size to fit none standard door, size approximately 915 x 2032mm high (disable)					
2		No	1,00		
CARRIED TO SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

Section No. 6		
BILL NO. 9		
PLASTERING		
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades		
GRANOLITHIC		
Untinted granolithic on concrete		
1	20mm Thick on floors	m2 30,00
FLOOR AND WALLS SEALERS		
<u>Minimum two coats approved epoxy coat:</u>		
2	On floors	m2 50,00
3	In pits	m2 120,00
CARRIED TO SUMMARY		

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>Section No. 6</u>					
<u>BILL NO. 11</u>					
<u>PLUMBING AND DRAINAGE(PROVISIONAL)</u>					
RAINWATER DISPOSAL					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
<u>Aluminium Zinc Seamless Gutters</u>					
1	100 x 100mm sandard rainwater gutters fixed with gutter brackets	m	15,00		
2	Extra over eaves gutter for stopped end	No	2,00		
3	75 x 100mm Diameter rainwater down pipes fixed to wall	m	25,00		
4	Extra over eaves gutter for outlet for 75 x 100mm down pipe	No	1,00		
5	Ditto .for shoe	No	1,00		
SANITARY FITTINGS					
<u>"Vaal" or similar and approved</u>					
6	Ceramic wall mounted wash hand basin, complete with all fittings and accesseries including cutting & making good wall & floor wherever required for disable toilets.	No	1,00		
SUPPLY AND INSTALL "ENVIRO-LOO" TOILET SYSTEMS					
7	Enviroloo Industrial Standard seat system complete, (Code: FG-1040STDCA/B3)	No	7,00		
8	Enviroloo two (3) Pan Urinal system complete (ABS) (FG-URI3PA/B3)	No	4,00		
9	Enviroloo Inspections including COC	No	2,00		

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

	PRECAST CONCRETE WASH HAND TROUGH				
10	Standard SABS approved Pre-Cast Concrete Double Wash Trough, 1080 x 650 x 850mm high with support legs fitted with standard 3/4 Brass Garden Taps, fixed complete to berick wall, including all necessary pipework, including soak away as per 'Engineers detail'.	No	2,00		
	SOIL DRAINAGE				
	<u>uPVC pipes</u>				
11	110mm Pipes laid in and including trenches not exceeding 1m deep	m	15,00		
	<u>Extra over uPVC pipes for fittings</u>				
12	110mm Bend	No	2,00		
13	110mm Junction	No	2,00		
	<u>uPVC gulleys</u>				
14	110mm Gulley not exceeding 750mm deep, including removal of existing , pre-cast concrete sorround etc.	No	2,00		
	TRAPS ETC				
	<u>Marley</u>				
15	40 x 300mm Sink combination for double bowl with deepseal "P" trap	No	1,00		
	TAPS, VALVES, ETC				
16	Cobra Watertech 15mm compression type angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).	No	1,00		
17	Cobra Watertech 15mm chrome plated bibtap (Code: NM-500-21B) with blue indice and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412).	No	1,00		
	SANITARY PLUMBING				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

	<u>uPVC pipes</u>				
18	50mm Pipes	m	15,00		
	<u>Extra over uPVC pipes for fittings</u>				
19	50mm Bend	No	2,00		
20	50mm Access bend	No	2,00		
21	50mm Junction	No	2,00		
	WATER SUPPLIES				
	<u>Class 0 copper pipes</u>				
22	15mm Pipes	m	10,00		
23	22mm Pipes	m	10,00		
	<u>Extra over class 0 copper pipes for capillary fittings</u>				
24	15mm Fittings	No	1,00		
25	22mm Pipes	No	1,00		
	TESTING				
	Allow for testing all drains, sanitary plumbing, water supplies and installtion to the satisfaction of the				
26	Principle Agent.	item	1,00		
	CARRIED TO SUMMARY				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>Section No. 6</u>					
<u>BILL NO. 12</u>					
<u>GLAZING</u>					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
GLAZING TO STEEL WITH PUTTY					
6,38mm Obscure safety glass					
1	Panes not exceeding 0,1 m2	m2	2,00		
CARRIED TO SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

	<p><u>Section No. 6</u></p> <p><u>BILL NO. 13</u></p> <p><u>PAINTWORK</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades</p> <p>PAINTWORK ETC TO NEW WORK</p> <p>PREPARATORY WORK TO EXISTING WORK</p> <p>Previously painted plastered surfaces</p> <p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</p> <p>Previously painted metal surfaces</p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p>Previously painted wood surfaces</p> <p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</p> <p>ON FIBRE-CEMENT</p> <p><u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u></p>				
1	On fascias and barge boards	m2	15,00		
	ON METAL				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

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Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

BILL NO		PAGE NO				
	SECTION SUMMARY -MD7					
	1 EARTHWORKS (PROVISIONAL)					
	2 CONCRETE, FORMWORK & REINFORCEMENT					
	3 MASONRY					
	4 WATERPROOFING					
	5 ROOF COVERINGS, ETC					
	6 CARPENTRY AND JOINERY					
	7 IRONMONGERY					
	8 METALWORK					
	9 PLASTERING					
	10 PLUMBING AND DRAINAGE (PROVISIONAL)					
	11 GLAZING					
	12 PAINTWORK					
	CARRIED TO FINAL SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>EXTERNAL WORK</u>						
<u>Section No. 6</u>						
<u>WATER SUPPLIES</u>						
<u>BILL NO.1</u>						
<u>SUPPLIMENTARY PREAMBLES</u>						
For preambles see "Specification of materials and methods to be used-PW 371"						
<u>Class 10 HDPE type IV pipes</u>						
1	50mm Pipes laid in and including trenches not exceeding 1m deep	m	250			
<u>Extra over Class 10 HDPE type IV pipes for fittings</u>						
2	50mm Reducer	No	6			
3	50mm Bend	No	12			
4	50mm Threaded adaptor	No	5			
<u>Galvanised medium steel pipes with screwed and socketed joints</u>						
5	50mm pipes	m	24			
<u>Extra over galvanised medium steel pipes with screwed and socketed joints for steel fittings</u>						
6	50mm Fittings	No	4			
7	50mm Bush	No	4			
8	50mm Elbow	No	4			
<u>Valve boxes</u>						
9	600x600mm Stopcock box complete as per detail drawing 'Valve chamber' including 400x400 cast iron cover and frame depth not exceeding 750mm internally	No	3			

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

[illegible]

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

	<u>Section No. 6</u>				
	<u>ELEVATED WATER TANKS</u>				
	<u>BILL NO.2</u>				
	<u>SUPPLIMENTARY PREAMBLES</u>				
	For preambles see "Specification of materials and methods to be used-PW 371"				
	<u>Excavation in earth not exceeding 2m deep</u>				
1	Holes	m3	8		
	<u>Extra over trench and hole excavations in earth for excavation in:</u>				
2	Soft rock	m3	4		
3	Hard rock	m3	2		
	<u>Extra over all excavations for carting away</u>				
	Surplus material from excavations and/rock piles on site to the dumping site to be located by the				
4	Contractor	m3	6		
	<u>Risk of collapse of excavations</u>				
	Sides of trench and hole excavation not exceeding				
5	1.5m deep	m2	10		
	<u>Keep excavation free of water</u>				
6	Keep excavation free of water	item	1		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod. AASHTO density</u>				
7	Backfilling to trenches,holes ,etc	m3	2		
	<u>Soil insecticide</u>				
8	To bottom and sides of trenches,etc	m2	24		

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

	<u>One layer of 250 micron green medium density waterproof sheeting sealed at laps with pressure sensitive tape in accordance with the manufacturer's instructions</u>				
9	Under surface beds	m2	24		
	<u>15Mpa/19mm concrete</u>				
10	Blinding	m3	1		
	<u>25Mpa/19mm concrete</u>				
11	Bases	m3	6		
	<u>Finishing top surface of concrete smooth with a wood float</u>				
12	On top of bases	m2	5		
	<u>'Jojo" o equal approved SANS PVC water tanks</u>				
13	5000 Litre plastic water tank fitted onto and secured to tank stand	No	1		
	10000 Litre plastic water tank fitted onto and secured to tank stand	No	1		
	<u>Galvanised medium normalised mild steel piping</u>				
14	25mm Pipes	m	60		
15	50mm Pipes	m	105		
	<u>Extra over galvanised medium normalised mild steel piping for fittings:</u>				
16	25mm Fittings	No	8		
17	50mm Elbows	No	5		
18	50mm Union	No	8		
19	50mm Reducing bush	No	4		
	<u>'Cobra Watertech" or other equal approved</u>				
20	15mm 'Cobra Ref.108LK" brass hose bibtap	No	4		

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

21	50mm Fullway gate valve	No	4	
	<u>The following in structural steel tank stands</u>			
	<u>Welded steel columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete</u>			
22	80x80x6mm angle columns	t	0,5	
	<u>Steel members and girth, bolted to steel</u>			
23	30x30x6mm flat-bar	t	0,2	
24	40x40x5mm angle	t	0,1	
25	125x75x8mm unequal angle	t	0,2	
26	125x50x20x2mm Lipped channel	t	0,3	
	<u>BOLTS, FASTENERS, ETC (LI)</u>			
27	High tensile bolts	t	0,5	
	12mm Diameter L-shaped threaded anchor bolt			
28	350mm girth embedded in top of concrete	No	16	
	<u>ON METAL</u>			
	Undercoat and minimum 2 coats gloss enamel			
29	Paint to structural steel	m2	125	
	<u>TESTING</u>			
	<u>Testing of water tanks</u>			
30	Testing for tank	Item	1	
	CARRIED TO SUMMARY			

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>Section No. 6</u>					
<u>BILL NO.3</u>					
<u>SEPTIC TANKS, ETC</u>					
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades					
1	Allow an amount of R150 000 to complete septic tank	item		R 150 000,00	R 150 000,00
<u>FRENCH DRAINS</u>					
<u>SITE CLEARANCE ETC</u>					
<u>Site clearance</u>					
2	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	20		
<u>Excavation in earth not exceeding 2m deep</u>					
3	Holes	m3	15		
<u>Extra over trench and hole excavations in earth for excavation in:</u>					
4	Soft rock	m3	1		
5	Hard rock	m3	1		
<u>Extra over all excavations for carting away</u>					
6	Surplus material from excavations and/rock piles on site to the dumping site to be located by the Contractor	m3	8		
<u>Risk of collapse of excavations</u>					
7	Sides of trench and hole excavation not exceeding 1.5m deep	m2	4		
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod. AASHTO density</u>					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

8	On top of french drain as soil cover	m3	7	
	<u>FILTER FABRIC</u>			
	<u>'Kaytech Engineered Fabric" or similar approved laid in strict accordance to the manufacturer's instructions</u>			
9	'Kaytech U14" or equal approved around stone filling in sub-soil drain trenches	m2	20	
	<u>20mm Graded stone filling or similar approved</u>			
10	In holes	m3	5	
	<u>200-300mm Diameter clean washed stone filling or similar approved by Engineer</u>			
11	In holes	m3	15	
	<u>WATER PROOFING</u>			
	<u>One layer of 250 micron green medium density waterproof sheeting sealed at laps with pressure sensitive tape in accordance with the manufacturer's instructions</u>			
12	On top of pipes as protection of joints	m2	15	
	<u>ROOF SHEETING</u>			
	<u>Roof sheeting</u>			
13	On top of french drain	m2	15	
	<u>uPVC Pipes</u>			
14	110mm pipes laid in and including trenches	m	15	
15	160mm pipes laid in and including trenches	m	10	
	<u>Extra over uPVC pipes for fittings</u>			
16	110mm End cap	No	4	
17	110mm Bend	No	2	
	<u>CARRIED TO SUMMARY</u>			

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

Section No. 6					
BILL NO. 4					
WATER HARVESTING TANKS					
<u>SITE CLEARANCE ETC</u>					
<u>Site clearance</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	65		
<u>EXCAVATION, FILLING, ETC</u>					
<u>Excavation in earth not exceeding 2m deep</u>					
2	Trenches	m3	13,072		
<u>Extra over trench and hole excavations in earth for excavation in</u>					
3	Soft rock	m3	3,9216		
4	Hard rock	m3	2,6144		
<u>Extra over all excavations for carting away</u>					
5	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	18		
<u>Risk of collapse of excavations</u>					
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	10		
<u>Keeping excavations free of water</u>					
7	Keeping excavations free of all water other than subterranean water	item	1		

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

	<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>				
8	Backfilling to trenches, holes, etc	m3	7,00		
	<u>SOIL POISONING</u>				
	<u>Soil poisoning mixed in accordance to supplier's specifications</u>				
9	To bottoms and sides of trenches, etc.	m2	12		
	CONCRETE, FORMWORK AND REINFORCEMENT				
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	25MPa/19mm concrete				
10	Strip footings	m3	2		
11	Platform surface beds cast in panels	m3	2		
	<u>FINISHING TOP SURFACE OF CONCRETE</u>				
	<u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u>				
12	Surface beds, slabs, etc (rainwater tanks)	m2	15		
	<u>REINFORCEMENT</u>				
	Fabric reinforcement				
13	Type 295 fabric reinforcement in concrete surface beds, slabs, etc	m2	15		
	<u>TEST CUBES</u>				
14	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

	all charges in connection therewith.	Sets	3,00		
	<u>BRICKWORK</u>				
	<u>Corobrick "Letaba Satin Face bricks" in class II mortar</u>				
15	One brick walls	m2	25		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Brickwork reinforcement</u>				
16	150mm Wide reinforcement built in horizontally	m	50		
	<u>FACE BRICKWORK</u>				
	Face bricks (Purchase price of R5 000-00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints				
17	Extra over brickwork for face brickwork	m2	7,5		
	Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R3 500,00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces				
18	Coping on top of one brick wall	m2	7,5		
	<u>WATERPROOFING</u>				
	<u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>				
19	Under surface beds	m2	4,544		
	<u>WATER SUPPLIES</u>				
	<u>Jojo approved SANS PVC water tanks</u>				
20	2 500 Litre plastic water tank fitted onto and secured to tank platforms	No	2,00		
	<u>Galvanized medium normalized mild steel piping</u>				

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<u>Section No. 6</u>					
<u>BILL NO. 5</u>					
<u>PAVED WALKWAYS</u>					
<u>SUPPLEMENTARY PREAMBLES</u>					
For preambles see "Specifications of materials and methods to be used - PW 371"					
Site Clearance					
<u>Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.</u>					
1		m2	88,5		
Stripping average 100mm thick layer of top soil and stockpiling on site					
2		m2	88,5		
<u>Open face excavation in earth over sloping site</u>					
Excavation in earth not exceeding 2m open face excavation to form platforms under parking areas etc and depositing excavated material over site, including haulage not exceeding 10m from perimeter of excavations exceeding 2m deep					
3		m3	17,7		
<u>Extra over all excavations for carting away</u>					
Surplus material from excavations and/stock piles on site to the dumping site to be located by the Contractor.					
4		m3	17,7		
<u>Earth filling supplied by the contractor under parking areas, roadways, etc</u>					
Sub-base course of G5 material in accordance with SABS 1200 DM, compacted to 93% Mod AASHTO density					
5		m3	17,7		
<u>Compaction of surfaces</u>					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

6	Compaction 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	17,7		
	<u>Soil poisoning</u>				
7	Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrisien 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m ² on cleared ground	m2	88,5		
8	60mm Thick precast concrete DZZ interlocking heavy duty block paving of grey paving blocks in accordance with SANS 1058, laid to falls on and including 25mm thick sand layer with joints filled in with sand, compacted with a vibration compactor:				
8	Paving to toilet areas etc to falls	m2	100		
9	Grouting	m2	121,85		
10	Remove one-sided paving carefully; according to engineer approval, the cost will include both removal and re-intallation	m2	15		
11	Remove one-sided kerbs carefully; according to engineer approval, the cost will include both removal and re-intallation	m2	46		
12	Fig. 7 kerbs to sides of paving	m	128		
13	15Mpa/19mm unreinforced concrete in haunching	m3	15		
	CARRIED TO SUMMARY				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>Section No. 6</u>					
<u>BILL NO. 6</u>					
<u>STORMWATER CONTROL</u>					
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Earthworks</u>					
<u>For preambles see "Specifications of materials and methods to be used - PW 371"</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	50		
2	Excavate in earth below natural, reduced or made up ground level , not exceeding 2m deep, to reduced levels under aprons, paving, etc	m3	20		
3	Extra over surplus material from excavations and/stock				
	piles on site to the dumping site to be located by the Contractor.	m3	10		
4	Extra over trench or hole for excavations in soft rock	m3	15		
5	Re-compaction of disturbed formation levels, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	85		
6	Treat soil under concrete rain water channels, etc. with an approved insecticide solution at the rate not less than 2 litre per 1m2	m2	250		
<u>Reinforced Concrete</u>					
7	25Mpa/19mm Mass concrete in V-shaped channel				

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<u>Section No. 6</u>						
<u>BILL NO. 7</u>						
<u>PERIMETER FENCE, FENCING AROUND TANK STANDS AND FENCING AROUND GRADE R ETC.</u>						
<u>EXCAVATIONS</u>						
SITE CLEARANCE ETC						
Clearing fence line						
1	Digging up and removing existing fence, poles, concrete, etc	m	607			
EXCAVATION, FILLING, ETC						
2	Excavation in earth not exceeding 2m deep Holes	m3	20,58			
Extra over trench and hole excavations in earth for excavation in						
3	Soft rock	m3	5			
4	Hard rock	m3	3			
Extra over all excavations for carting away Surplus material from excavations on site to a dumping site to be located by the contractor						
		m3	12,5			
CONCRETE, FORMWORK AND REINFORCEMENT						
UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES						
15MPa/19mm concrete						
5	Base	m3	22,58			
FENCING						
Steel Palisade fence material on site						

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

6	<p>1800mm High Steel Palisade fence formed of 30 x 30 x 2mm mild steel angle iron palings spaced at 133mm centres with devil fork at the top and dove tail at the bottom, vertically welded on two 40 x 40 x 2mm horizontal rails, including steel stiffeners, welding, cutting, all necessary fixings lugs, bolts, etc.</p> <p>the rate must include labour and transporting around degistated position on site .</p>	m	307		
	<p>FENCING</p> <p>PERIMETER FENCE, FENCING AROUND GRADE R BLOCK AND ELEVATED TANKS</p>				
	<p>Steel Palisade fence</p> <p>1800mm High Steel Palisade fence formed of 30 x 30 x 2mm mild steel angle iron palings spaced at 133mm centres with devil fork at the top and dove tail at the bottom, vertically welded on two 40 x 40 x 2mm horizontal rails, including steel stiffeners, welding, cutting, all necessary fixings lugs, bolts, including grade R etc.</p>	m	340		
8	<p>Steel posts 76 x 76 x 2mm, 2400mm long, with 150mm stiffener welded in and fixed into ground 600mm deep and cast into the concrete base,</p>	No	220		
	<p>ACCESS GATES</p>				
	<p>Palisade silding gate</p> <p>Vehicular double sliding access gate size 5000 x 1800mm high including rectangular tubes, flat bars, steel angles, roller kit, etc. (PC Amount R7 500-00 each VAT excl. supplied and delivered to site)</p>	No	1		
10	<p>Palisade pedestrian gate</p> <p>Pedestrian gate size 1500 x 1800mm high including rectangular tubes, flat bars, steel angles, etc, (PC Amount R2 000-00 each VAT excl. supplied and delivered to site)</p>	No	3		
	<p>PAINTING</p> <p>Apply one coat primer for steel (red oxide), apply one coat universal undercoat for all surfaces, apply one coat gloss enamel. The colour of the gloss enamel paint shall be traffic green unless directed otherwise by the Limpopo Department o Education (not school)</p> <p>No brush painting</p>				

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

11	on rails, bars, palings, posts, pipes, Steel Palisade fence	m2	600		
CARRIED TO SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

<u>EXTERNAL WORKS</u>					
<u>SECTION SUMMARY - EXTERNAL WORKS</u>					
		Page			
		No			
1	WATER SUPPLY				
2	WATER TANKS				
3	SEPTIC TANK AND FRENCH DRAINS				
4	WATER HARVESTING TANKS				
5	PAVED WALKWAYS				
6	STORMWATER CONTROL				
7	FENCING				
CARRIED TO FINAL SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

Section No. 7					
PROVISIONAL SUMS					
Provide and amount of R 250 000,00 (Two Hundred and Fifty Thousand) for Borehole refurbishments & Reverse osmosis		Item			R 250 000,00
Add profit and attendance		Item	%		
Provide and amount of R 250 000,00 (Two Hundred and Fifty Thousand)Refurbishment of existing ablutions		Item			R 250 000,00
Add profit and attendance		Item	%		
CARRIED TO FINAL SUMMARY					

Construction of School Water and Sanitation Facilities at Magaingwana Primary School, Limpopo

FINAL SUMMARY	
1 P's and G's	
2 Demolitions	
3 Remedial Works	
4 FD4- Enviroloo	
5 SD8-Waterborne	
6 Gr R6- Waterborne	
7 MD6- Enviroloo	
8 External works	
9 Prov sum	
Sub Total	
Contingency sum (@10%)	
Sub Total	
VAT	
Total Carried to form of Tender	