

Item No		Quantity	Rate	Amount
	<u>SECTION 1</u> <u>BILL NO. 1</u> <u>PRELIMINARIES</u> <u>BUILDING AGREEMENT AND PRELIMINARIES</u> 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 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 Contractors are referred to the above-mentioned documents for the full intent and meaning of each clause thereof 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 Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable" 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			
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Brought Forward		R	
<u>PREAMBLES FOR TRADES</u> 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 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 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 <u>GENERAL</u> 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 <u>SECTION A - PRINCIPAL BUILDING AGREEMENT</u>			
<u>Definitions (A1)</u>			
1 Definitions and interpretation (clause 1)			
F:..... V:..... T:.....	Item		
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	Brought Forward		R	
	<u>Objective and Preparation (A2 to A14)</u>			
2	Offer acceptance and performance (clause 2) F:..... V:..... T:.....	Item		
3	Documents (clause 3) F:..... V:..... T:.....	Item		
4	Design responsibility (clause 4) F:..... V:..... T:.....	Item		
5	Employer's agents (clause 5) F:..... V:..... T:..... The principal agent shall: - 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	Item		
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	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			
6	Site representative (clause 6)			
	F:..... V:..... T:.....	Item		
7	Compliance with regulations (clause 7)			
	F:..... V:..... T:.....	Item		
8	Works risk (clause 8)			
	F:..... V:..... T:.....	Item		
9	Indemnities (clause 9)			
	F:..... V:..... T:.....	Item		
10	Works insurances (clause 10)			
	F:..... V:..... T:.....	Item		
11	Liability insurances (clause 11)			
	F:..... V:..... T:.....	Item		
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12	Effecting insurance (clause 12) F:..... V:..... T:.....	Item		
13	NO CLAUSE	N/A		
14	Security (clause 14) F:..... V:..... T:.....	Item		
	<u>Execution (A15-A23)</u>			
15	Preparation for and execution of the works (clause 15) F:..... V:..... T:.....	Item		
16	Access to the works (clause 16) F:..... V:..... T:.....	Item		
17	Contract instructions (clause 17) F:..... V:..... T:.....	Item		
18	Setting out of the works (clause 18) F:..... V:..... T:..... 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 encroachments	Item		
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19	Assignment (clause 19) F:..... V:..... T:..... The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer	Item		
20	Nominated subcontractors (clause 20) F:..... V:..... T:.....	Item		
21	Selected subcontractors (clause 21) F:..... V:..... T:..... 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 All amounts allowed under Provisional Amounts are intended to be awarded to Selected Subcontractors	Item		
22	Employer's Direct Contractors (clause 22) F:..... V:..... T:.....	Item		
23	Contractor's Domestic Sub-Contractors (Clause 23) F:..... V:..... T:.....	Item		
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<u>Completion (A24-A30)</u>				
24	Practical completion (clause 24) F:..... V:..... T:.....	Item		
25	Works completion (clause 25) F:..... V:..... T:.....	Item		
26	Final completion (clause 26) F:..... V:..... T:.....	Item		
27	Latent defects liability period (clause 27) F:..... V:..... T:.....	Item		
28	Sectional completion (clause 28) F:..... V:..... T:.....	Item		
29	Revision of date of practical completion (clause 29) F:..... V:..... T:..... 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 nor for an adjustment to the contract sum (clause 29.3)	Item		
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30	Penalty for non-completion (clause 30) F:..... V:..... T:.....	Item		
	<u>Payment (A31 - A35)</u>			
31	Interim payment to the contractor (clause 31) F:..... V:..... T:.....	Item		
32	Adjustment to the contract value (clause 32) F:..... V:..... T:..... 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	Item		
33	Recovery of expense and loss (clause 33) F:..... V:..... T:.....	Item		
34	Final account and final payment (clause 34) F:..... V:..... T:..... 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	Item		
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	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			
35	Payment to other parties (clause 35) F:..... V:..... T:..... <u>Cancellation (A36-A39)</u>	Item		
36	Cancellation by employer - contractor's default (clause 36) F:..... V:..... T:.....	Item		
37	Cancellation by employer - loss and damage (clause 37) F:..... V:..... T:.....	Item		
38	Cancellation by contractor - employer's default (clause 38) F:..... V:..... T:.....	Item		
39	Cancellation - cessation of the works (clause 39) F:..... V:..... T:.....	Item		
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	<u>Dispute (A40)</u>			
40	Dispute Settlement (clause 40) F:..... V:..... T:.....	Item		
	<u>Substitute Provisions (A41)</u>			
41	State clauses (Clause 41) F:..... V:..... T:..... Information necessary for the completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder	Item		
	<u>THE SCHEDULE</u> Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder			
42	Pre-tender information (clause 42) F:..... V:..... T:.....	Item		
	<u>42.1 CONTRACTING AND OTHER PARTIES</u>			
	42.1.1 Employer: As per information on the tender data			
	42.1.2 Principal Agent: As per the information on the Tender data			
	42.1.3 Architect:			
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Brought Forward 42.2.6 Period for the commencement of the works after the contractor takes posse 42.2.7 For the works as a whole. Intended date of practical completion and the penalty per calendar day 3 months after contractual commencement date <i>Date</i> <i>Penalty Amount</i> <i>The penalty per calender day shall be 0.05% of the tenderd amount (inclusive of value added tax)</i> 42.2.8 For the works in sections: Intended date of practical completion and the penalty per calendar day Section 1 .N/A..... <i>Date</i> R.N/A..... <i>Penalty Amount</i> 42.2.9 The law applicable to this agreement shall be that of <i>South Africa (country)</i> <u>42.3 INSURANCES</u> 42.3.1 Contract works insurance to be effected by: <i>Contractor:</i> <i>For the Sum of R Contract Amount + 20.00 %</i> <i>With a deductible of - to be determined by the contractor</i> 42.3.2 Supplementary insurance is required <i>No</i> Carried Forward Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL		R	
		R	

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42.3.3 Public liability insurance to be effected by: <i>Contractor:</i> <i>For the Sum of R 2 500 000-00</i> <i>With a deductible of - to be determined by the contractor</i>			
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			
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 working days <i>The priced bills of quantities must be handed in with the tender</i>			
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 Yes Where JBCC CPAP is to be used <i>Base Month July 2010</i>			
42.4.7 Details of changes made to the provision of JBCC standard documentation:			
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	<u>SECTION B: PRELIMINARIES</u>			
	<u>Definitions and interpretation (B1)</u>			
43	Definition and interpretation (B1.1 - B1.4.6) F:..... V:..... T:.....	Item		
	<u>Documents (B2)</u>			
44	Checking of documents (B2.1) F:..... V:..... T:.....	Item		
45	Provisional bills of quantities (B2.2) F:..... V:..... T:.....	N/A		
46	Availability of construction documentation (B2.3) F:..... V:..... T:.....	Item		
47	Interests of agents (B2.4) F:..... V:..... T:.....	Item		
48	Priced documents (B2.5) F:..... V:..... T:.....	Item		
49	Tender submission (B2.6) F:..... V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		R	
50	Defined works area (B3.1) F:..... V:..... T:..... <u>The site (B3)</u>	Item		
51	Geotechnical investigation (B3.2) F:..... V:..... T:.....	Item		
52	Inspection of the site (B3.3) F:..... V:..... T:..... Existing premises occupied (B3.4) F:..... V:..... T:..... Previous work - dimensional accuracy (B3.5) F:..... V:..... T:..... Previous work - defects (B3.6) F:..... V:..... T:.....	Item		
53	Services - known (B3.7) F:..... V:..... T:.....	Item		
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Brought Forward			R	
54	Services - unknown (B3.8) F:..... V:..... T:.....	Item		
55	Protection of trees etc (B3.9) F:..... V:..... T:.....	Item		
56	Articles of value (B3.10) F:..... V:..... T:.....	Item		
<u>Management of contract (B4)</u>				
57	Inspection of adjoining properties etc (B3.11) F:..... V:..... T:.....	Item		
58	Management of the works (B4.1) F:..... V:..... T:.....	Item		
59	Programme for the works (B4.2) F:..... V:..... T:.....	Item		
60	Progress meetings (B4.3) F:..... V:..... T:.....	Item		
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	Brought Forward		R	
61	Technical meetings (B4.4) F:..... V:..... T:.....	Item		
62	Labour and Plant records (B4.5) F:..... V:..... T:.....	Item		
	<u>Samples, Shop Drawings and Manufacturer's Instructions (B5)</u>			
63	Samples of materials (B5.1) F:..... V:..... T:.....	Item		
64	Workmanship samples (B5.2) F:..... V:..... T:.....	Item		
65	Shop drawings (B5.3) F:..... V:..... T:.....	Item		
66	Compliance with Manufacturer's Instructions (B5.4) F:..... V:..... T:.....	Item		
	<u>Temporary works and plant (B6)</u>			
67	Deposits and fees (B6.1) F:..... V:..... T:.....	Item		
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	Brought Forward		R	
75	Electricity (B7.3) Option [A] shall apply F:..... V:..... T:.....	Item		
76	Telecommunication facilities (B7.4) F:..... V:..... T:.....	Item		
77	Ablution facilities (B7.5) Option [A] shall apply F:..... V:..... T:.....	Item		
	<u>Prime cost amounts (B8)</u>			
78	Responsibility for prime cost amounts (B8.1) F:..... V:..... T:.....	Item		
	<u>Attendance on N/S Subcontractors (B9)</u>			
79	General attendance (B9.1) F:..... V:..... T:.....	Item		
80	Special attendance (B9.2) F:..... V:..... T:.....	Item		
81	Commissioning - Fuel, water and power (B9.3) F:..... V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		R	
	<u>Financial aspects (B10)</u>			
	Statutory taxes, duties and levies (B10.1)			
	F:..... V:..... T:.....	Item		
82	Payment of preliminaries (B10.2) Option [B] shall apply			
	F:..... V:..... T:.....	Item		
83	Adjustment of preliminaries (B10.3) Option [A] shall apply			
	F:..... V:..... T:.....	Item		
84	Payment certificate cash flow (B10.4)			
	F:..... V:..... T:.....	Item		
	<u>General (B11)</u>			
85	Protection of works (B11.1)			
	F:..... V:..... T:.....	Item		
86	Protection/isolation of existing/sectionally occupied works (B11.2)			
	F:..... V:..... T:.....	Item		
87	Security of the Works (B11.3)			
	F:..... V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		R	
88	Notice before covering work (B11.4)			
	F:..... V:..... T:.....	Item		
89	Disturbance (B11.5)			
	F:..... V:..... T:.....	Item		
90	Environmental Disturbance (B11.6)			
	F:..... V:..... T:.....	Item		
91	Works cleaning and clearing (B11.7)			
	F:..... V:..... T:.....	Item		
92	Vermin (B11.8)			
	F:..... V:..... T:.....	Item		
93	Overhand work (B11.9)			
	F:..... V:..... T:.....	Item		
94	Instruction manuals and guarantees (B11.10)			
	F:..... V:..... T:.....	Item		
95	As built information (B11.11)			
	F:..... V:..... T:.....	Item		
96	Tenant Installations (B11.12)			
	F:..... V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		R	
	<u>Schedule of variables (B12)</u>			
97	Pre-tender information (B12.1)			
	F:..... V:..... 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			
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	Brought Forward		R	
12.1.12	Enclosure of the works (B6.2)			
12.1.11 (B3.11)	Inspection of adjoining properties			
12.1.13	Offices (B6.4.3)			
	An office for the clerck of works should be provided			
12.1.14	Main notice board (B6.5)			
	YES			
12.1.15	Subcontractors notice board (B6.6)			
	A notice board is required			
	No			
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			
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	Brought Forward		R	
	12.1.23 Disturbance (B11.5) N/A			
	12.1.24 Environmental Disturbance (B11.6) N/A			
	<u>Post tender information (B12.2)</u>			
	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			
	<u>SECTION C: SPECIFIC PRELIMINARIES</u>			
	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			
98	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 F: V:..... T:.....	Item		
99	Black economic empowerment and training F: V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		R	
100	Proprietary branded products F:..... V:..... T:.....	Item		
101	Testing of flat roof waterproofing for watertightness Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing F:..... V:..... T:..... 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	Item		
102	Contract instructions F:..... V:..... T:..... 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	Item		
103	Labour record F:..... V:..... T:..... 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	Item		
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104	Plant record F:..... V:..... T:..... 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	Item		
105	Guarantees F:..... V:..... T:..... 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	Item		
106	Overtime F:..... V:..... T:.....	Item		
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	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			
107	Co-operation of contractor for cost management F:..... V:..... T:.....	Item		
	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			
108	Occupational Health and Safety Specification F:..... V:..... T:.....	Item		
	Any Principal Contractor entering into a contract with The Developer must achieve an acceptable level of Occupational Health and Safety performance. Refer to "Project Specification" and "Safety, Health and Environmental Evaluation Questionnaire" The contractor to comply with all provisions of the above and to be enforced on all selected and or other sub-contractors, as no claim afterwards will be entertained			
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	<u>BILL NO.2</u> <u>EARTHWORKS</u> For preambles see "Specifications of materials and methods to be used - PW 371" <u>SUPPLEMENTARY PREAMBLES</u> <u>Nature of ground</u> 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 <u>Nature of ground</u> 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 <u>Carting away of excavated material</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site <u>Filling</u> 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			
	Carried Forward		R	
	Section No. 2 BUILDING WORKS - GR 3 Bill No. 1 FOUNDATION			

	Brought Forward			R	
	<u>Soil poisoning</u>				
	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				
	<u>SITE CLEARANCE</u>				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs,bush and trees not exceeding 200mm girth, etc.	m2	75		
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	31		
	<u>EXCAVATION,FILLING, ETC</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
3	Trenches	m3	18		
4	Pit	m3	16		
5	For aprons thickening	m3	8		
	<u>Extra over trench and hole excavations in earth for excavation:</u>				
6	Soft rock	m3	6		
7	Hard rock	m3	2		
	<u>Extra over all excavations for carting away:</u>				
8	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	23		
	<u>Risk of collapse of excavations</u>				
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	45		
	Carried Forward			R	
	Section No. 2 BUILDING WORKS - GR 3 Bill No. 1 FOUNDATION				

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CONSTRUCTION OF SANITATION FACILITIES
KOPJENG PRIMARY SCHOOL

Brought Forward			R
	<u>Keeping excavations free of water.</u>		
10	Keeping excavations free of water other than subterranean water	Item	
	<u>Earth filling obtained from the excavation and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>		
11	Under floors, steps, pavings, etc.	m3	2
12	Backfilling to trenches, holes, etc.	m3	7
	<u>Compaction of surfaces</u>		
13	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	19
14	Compaction of ground surface to pits 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	9
	<u>Prescribed density tests on filling</u>		
15	Modified AASHTO Density tests	No	3
	<u>SOIL POISONING</u>		
	<u>Soil insecticide</u>		
16	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	19
17	To bottom of concrete aprons	m2	15
18	To bottoms and sides of trenches, etc.	m2	28
Carried Forward			R
Section No. 2 BUILDING WORKS - GR 3 Bill No. 1 FOUNDATION			

	Brought Forward			R	
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
	<u>UNREINFORCED CONCRETE, ETC</u>				
	<u>15MPa/19mm concrete</u>				
19	Surface blinding under footings and bases	m3	1		
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>25MPa/19mm concrete</u>				
20	Strip footings	m3	3		
21	<u>Surface beds in tank bottoms</u>	m3	1		
22	Surface beds for rainwater tanks, etc	m3	0,3		
23	Extra over for thickening in bottoms of tanks for thickening size approximately 125mm deep, 500mm at top and tapering to 460mm at bottom, incl. all excavations, cart away, etc.	m	11		
	<u>REINFORCED CONCRETE</u>				
	<u>30Mpa/19mm concrete</u>				
24	Slabs including beams and inverted beams	m3	1		
	<u>FINISHING TOP SURFACE OF CONCRETE</u>				
	<u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u>				
25	Surface beds, slabs, etc	m2	8		
26	Surface beds, slabs, etc (Bottom of tanks)	m2	8		
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>				
	Carried Forward			R	
	Section No. 2 BUILDING WORKS - GR 3 Bill No. 1 FOUNDATION				

	Brought Forward			R	
	<u>Smooth formwork to sides</u>				
27	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	11		
	<u>PERMANENT FORMWORK TO SOFFITS</u>				
	<u>Permanent formwork formed of 0.6mm thick corrugated sheeting supported by carbolonium treated gumpoles to the satisfaction of the principal agent to:</u>				
28	Slabs propped up not exceeding 1,5m high	m2	8		
29	Form 500mm radius opening in floor slab	No	3		
	<u>REINFORCEMENT</u>				
	<u>Fabric reinforcement</u>				
30	Steeledale Mesh standard square fabric mesh, nominal mass 3,95 kg/m ² with nominal 5,6mm thick wires and 200 x 200mm pitch (code 395), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long	m2	15		
	<u>Mesh Reinforcement (measure nett)</u>				
31	Mesh ref. No. 245 fabric reinforcement fixed horizontal in surface beds	m2	17		
	<u>TEST CUBES</u>				
32	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	3,0		
	<u>BRICKWORK</u>				
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>				
33	One brick walls	m2	26		
34	One brick walls in pit	m2	21		
	Carried Forward			R	
	Section No. 2 BUILDING WORKS - GR 3 Bill No. 1 FOUNDATION				

Brought Forward			R
	<u>Half brick wall brick-on-flat and projecting approximately 115mm built all around tank pit as support to Enviro loo tanks</u>		
35	4Half brick corbelling in pit	m	20
	<u>BRICKWORK SUNDRIES</u>		
	<u>Brickwork reinforcement</u>		
36	150mm Wide reinforcement built in horizontally	m	266
	<u>Prestressed fabricated lintels</u>		
37	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	10
	<u>FACE BRICKWORK</u>		
	<u>"Corobrick" "Letaba Satin Face bricks" pointed with recessed horizontal and vertical joints</u>		
38	Extra over brickwork for face brickwork in foundation	m2	4
Carried Forward to Summary of Section No. 2			R
Section No. 2			
BUILDING WORKS - GR 3			
Bill No. 1			
FOUNDATION			

Item No		Quantity	Rate	Amount
	<u>BILL NO.3</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> For preambles see "Specifications of materials and methods to be used - PW 371" <u>SUPPLEMENTARY PREAMBLES</u> <u>Cost of tests</u> The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Principal Agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Principal Agent. (Test cubes are measured separately) Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated <u>"Foamcement " lightweight concrete</u> "Foamcement" lightweight concrete is to have a density of 600kg/m3 for the top 50mm and 400kg/m3 for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 50mm <u>"Celbeton" lightweight concrete</u> "Celbeton" lightweight concrete is to have a density of 1000kg/m3 for the top 20mm and 480kg/m3 for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 30mm			
	Carried Forward		R	
	Section No. 2 BUILDING WORKS - GR 3 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT			

	Brought Forward			R	
	<u>Formwork</u> Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself. Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks" <u>REINFORCED CONCRETE, ETC</u> <u>25Mpa/19mm Concrete</u>				
1	Surface beds cast in panels on waterproofing	m3	2		
	<u>CONCRETE SUNDRIES</u> <u>Finishing top surfaces of concrete smooth with a steel trowel</u>				
2	Surface beds, slabs, etc	m2	19		
	Carried Forward			R	
	Section No. 2 BUILDING WORKS - GR 3 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT				

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	Brought Forward			R	
3	Extra over brickwork for face brickwork in beamfilling	m2	2		
4	Fair raking and cutting	m	11		
	<u>Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 3 500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces</u>				
5	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	3		
6	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	3		
7	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	3		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Brick reinforcement</u>				
8	75mm Wide reinforcement built in horizontally	m	43		
9	150mm Wide reinforcement built in horizontally	m	97		
	<u>Turning pieces</u>				
10	220mm Wide turning piece to lintel etc	m	5		
	<u>Galvanised wire ties etc</u>				
11	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	10		
	<u>Prestressed fabricated lintels</u>				
12	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	7		
	<u>Ventillation bricks</u>				
13	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	4		
	Carried Forward				
	Section No. 2			R	
	BUILDING WORKS - GR 3				
	Bill No. 3				
	MASONRY				

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Carried Forward

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CONSTRUCTION OF SANITATION FACILITIES
KOPJENG PRIMARY SCHOOL

	Brought Forward			R	
2	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	32		
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	32		
	<u>Sundries</u>				
4	Two coats creosote on sawn timbers	m2	20		
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	10		
6	Hurricane clips	No	24		
	<u>EAVES, VERGES, ETC.</u>				
	<u>Pressed fibre-cement</u>				
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	19		
	<u>DOORS, ETC.</u>				
	<u>Wrought meranti doors hung to steel frames</u>				
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	1		
Carried Forward to Summary of Section No. 2					R
Section No. 2					
BUILDING WORKS - GR 3					
Bill No. 6					
CARPENTRY AND JOINERY					

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Item No		Quantity	Rate	Amount
	<u>BILL NO.9</u>			
	<u>METALWORK</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	Metalwork described as"holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	<u>WELDED SCREENS, GATES, ETC</u>			
	<u>Steel gates and frames</u>			
1	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No	1	
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1,2mm Double rebated frames suitable for one brickwalls</u>			
2	Frame for door 813 x 2032mm high	No	1	
	<u>STEEL WINDOWS, DOORS, ETC</u>			
3	Window type NE1, 533 x 654mm high including burglar bars	No	3	
4	Window type NE 7,1022 x 654mm high including burglar bars	No	1	
	Carried Forward to Summary of Section No. 2			
	Section No. 2			
	BUILDING WORKS - GR 3			
	Bill No. 8			
	METALWORK			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 11</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>RAINWATER DISPOSAL</u>			
	<u>0.6mm Galvanised sheet iron with "Chromadek" finish on one side</u>			
1	100 x 100mm Eaves gutters with beaded front edge	m	4	
2	Extra over for closed ends	No	2	
3	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	3	
4	Extra over rainwater pipe for eaves offset	No	2	
5	Ditto ,for shoe	No	1	
	<u>SUPPLY AND INSTALL ENVIRO-LOO UNIT SYSTEM COMPLETE</u>			
6	Enviroloo Industrial Junior seat unit system complete (code BPi1040)	No	3	
	<u>PRECAST CONCRETE WASH HAND TROUGH</u>			
7	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, including all necessary pipework including soak away approximately 10 meters away from the wash trough, sized at 1000 x 1000 x 1000mm covered with "bidim" complete etc	No	1	
	Carried Forward			
	Section No. 2 BUILDING WORKS - GR 3 Bill No. 10 PLUMBING AND DRAINAGE		R	

	Brought Forward			R	
	<u>RAINWATER TANK,ETC</u>				
8	Supply and install 2 500 Litre water tank fitted onto and secured to tank platforms including fastening cables with a "Do Not Drink" sticker	No	1		
	<u>TAPS, VALVES, ETC</u>				
	<u>"Cobra Watertech"</u>				
9	15mm 111CP Pillartap	No	2		
	<u>SANITARY PLUMBING</u>				
	<u>uPVC pipes</u>				
10	50mm Pipes	m	10		
	<u>Extra over uPVC pipes for fittings</u>				
11	50mm Bend	No	2		
12	50mm Access bend	No	2		
13	50mm Junction	No	2		
	<u>WATER SUPPLIES</u>				
	<u>Class 0 copper pipes</u>				
14	15mm Pipes	m	10		
	<u>Extra over class 0 copper pipes for capillary fittings</u>				
15	15mm Fittings	No	4		
	Carried Forward to Summary of Section No. 2			R	
	Section No. 2				
	BUILDING WORKS - GR 3				
	Bill No. 10				
	PLUMBING AND DRAINAGE				

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Carried Forward

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 1</u>			
	<u>CONCRETE APRONS (PROVISIONAL)</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades			
	<u>APRONS AROUND BUILDINGS</u>			
	<u>Compaction of surfaces</u>			
1	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 AASHTO density	m2	10	
	<u>Weedkiller mixed in accordance to supplier's specifications</u>			
2	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	10	
	<u>Soil insecticide</u>			
3	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	10	
	<u>15 MPa/20 mm concrete</u>			
4	Aprons cast in panels to falls	m3	1	
5	<u>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</u>	m	17	
	Carried Forward		R	
	Section No. 3 EXTERNAL WORKS Bill No. 1 CONCRETE APRONS			

	Brought Forward			R	
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
6	Aprons to falls	m2	10		
	<u>Smooth formwork to sides</u>				
7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	17		
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>Fabric reinforcement</u>				
8	Steeledale Mesh standard square fabric mesh, nominal mass 1,93 kg/m ² with nominal 5,6mm thick wires and 200 x 200mm pitch (code 193), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long	m2	10		
	<u>SUNDRIES</u>				
9	25mm impregnated expansion joint filler board between brickwork and concrete	m	17		
10	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	Sets	1,0		
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3				
	EXTERNAL WORKS				
	Bill No. 1				
	CONCRETE APRONS				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u> <u>BILL NO. 2</u> <u>WALKWAYS</u> For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades as well as Engineering Specifications attached to these documents <u>SUPPLEMENTARY PREAMBLES</u> <u>Materials and workmanship must be in accordance to the following SABS 1200 specifications:</u> C - Site clearance D - Earthworks DM - Earthworks (Roads, subgrade) M - Roads (General) ME - Sub-base MF - Base MK - Kerb and Channeling MM - Ancillary Roadworks <u>EXCAVATION, FILLING, 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 24 <u>Open face excavation in earth over sloping site</u> 2 Stripping average 150mm thick layer of top soil and stockpiling on site m3 4 3 Excavate in pickable earth to reduce ground level below paving and but cart away excavated material to a dumping place to be found by the contractor (cut to spoil) m3 4 Carried Forward Section No. 3 EXTERNAL WORKS Bill No. 2 PAVING			
			R	

	Brought Forward			R	
4	Excavate in pickable earth to reduce ground level below paving and set aside for later use	m3	4		
5	Rip and scarify ground level to a depth of 150mm and consolidate to 100% mod. AASHTO density (minimum CBR 3)	m2	24		
	<u>Paving layers</u>				
	The following to be natural selected gravel layers evenly spread and consolidated in layers and dimensions as specified and on the drawings. All thicknesses to be consolidated thicknesses.				
	Where described as "imported" the gravel to be supplied and carted on by the contractor from an approved borrow pit				
6	Selected filling previously set aside compacted to 93% mod. AASHTO density	m3	4		
7	Imported G6 material compacted to 93% mod. AASHTO density	m3	4		
	<u>Prescribed density tests on filling</u>				
8	"Mod. AASHTO Density" test	No	3		
	<u>PAVING</u>				
	<u>Interlocking paving</u>				
	<u>"Concor Double Zig Zag" pre-cast concrete interlocking paving (35MPa Minimum compressive strength):</u>				
9	80mm Thick natural grey paving laid in herring bone pattern	m2	24		
10	Weed-killing treatment of surface under paving	m2	24		
11	Fig 7 kerb (PC Amount R150-00/m VAT excl.)	m	24		
12	Straight cutting units to fit edge restraints	m	24		
	Carried Forward			R	
	Section No. 3 EXTERNAL WORKS Bill No. 2 PAVING				

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 3</u>			
	<u>FENCING</u>			
	<u>EXCAVATIONS</u>			
	<u>Site Clearance,etc</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	70	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
2	Holes	m3	11	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
3	Soft rock	m3	0,3	
4	Hard rock	m3	1	
	<u>Extra over all excavations for carting away:</u>			
5	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	11	
	<u>Risk of collapse of excavations</u>			
6	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	75	
	<u>Keeping excavations free of water.</u>			
7	Keeping excavations free of water other than subterranean water	Item		
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	Carried Forward		R	
	Section No. 3 EXTERNAL WORKS Bill No. 3 FENCING AROUND GRADE R TOILETS			

Brought Forward			R
<u>UNREINFORCED CONCRETE, ETC</u>			
<u>25Mpa/19mm Concrete</u>			
8	Base	m3	1
<u>FENCING</u>			
<u>50 x 50mm Galvanized welded mesh fencing erected in strict accordance to the manufacturer's instructions</u>			
9	1800mm Galvanised 50 x 50mm welded mesh fixed to posts etc	m	70
10	Corner post size 2,2m high x 101mm diameter x 2mm thick with cap and baseplate and finished with silver bitumen primer fixed in concrete base (e/m)	No	4
11	Gate post size 2,2m high x 101mm diameter x 2mm thick with cap and baseplate and finished with silver bitumen primer fixed in concrete base (e/m)	No	2
12	Immediate post size 2,2m high x 101mm diameter x 2mm thick with cap and base plate and finished with silver bitumen primer fixed in concrete base (e/m)	No	12
13	Inclined stay size 2400mm x 48mm x 2mm thick with steel base plate fixed to concrete base (e/m)	No	34
14	2200mm Standard Y nailed into the ground	No	30
15	Pedestrian gate 1000 x 1800mm high to suit diamond mesh fencing covered with galvanised wire diamond mesh fixed to framing and cross brace including sliding lock (PC Amount R2000-00 each VAT excl. supplied and delivered to site)	No	1
Carried Forward to Summary of Section No. 3			R
Section No. 3			
EXTERNAL WORKS			
Bill No. 3			
FENCING AROUND GRADE R TOILETS			

R

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KOPJENG PRIMARY SCHOOL

Section No	<u>FINAL SUMMARY</u>	Page No		Amount
1	PRELIMINARIES AND GENERAL	28		
2	BUILDING WORKS - GR 3	55		
3	EXTERNAL WORKS	63		
	SUB TOTAL (A)		R	
	Provide 10% (TEN PERCENT) on Sub-total (A) as contingency to be deducted in whole or in part if not required	%		
	SUB TOTAL (B)		R	
	Add VAlue Added Tax @ 15%		R	
	Carried to Final Cluster summary		R	