

**BILLS OF QUANTITIES
VUKAYIBAMBE SSS
COMPLETION OF REMAINING WORK
DOEEC/14/2022/2023.**

Item No	Quantity	Rate	Amount R
<p><u>SECTION NO. 1</u></p> <p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>NOTE 1: All site specific health and safety allowances as per the Health and Safety Agents health and safety specification shall be presented as a lump sum herein. Such lump sum shall include among other things all COVID-19 Compliance requirements.</u></p> <p>The JBCC Series 2000 Preliminaries dated May 2005, code 2103 for use with the JBCC Principal Building Agreement dated March 2005, edition 4.1, code 2101 are deemed to be incorporated herein.</p> <p>The tenderer is deemed to refer to the above mentioned documents for the full intent and meaning of each clause. These clauses are referred to by heading and clause number only, for which such allowance must be made as may be considered necessary.</p> <p>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.</p> <p>Where any item is not relevant to this specific contract such item is marked N/A (signifying "Not Applicable").</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 by insertion of "F", "V", "T" as the case may be against the price in the "rate" column immediately preceding the "amount" column, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value, and "T" denotes an amount proportionate to time.</p> <p><u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u></p>			
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<u>Definitions (A1)</u>				
1	Definitions and interpretation (clause 1) F:..... V:..... T:.....	Item		
<u>Objective (A2)</u>				
2	Offer, acceptance and performance obligations (clause 2) F:..... V:..... T:.....	Item		
<u>Preparation (A3-A14)</u>				
<p>Without limiting the generality of the provisions of clause 7.0 of the agreement, the contractor's attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of the Occupational Health and Safety Act, 1993 in which it is specifically stated that the employer shall prepare a documented health specification for the works (refer to clients General Health and Safety Undertaking and Rules annexed hereto) and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during execution of the works. The contractor shall price opposite this item for compliance with the act and regulations and the provisions of the aforementioned health and safety specification, as well as any specific provisions applicable to this project to be issued by the principal agent, provided such specifications are reasonable in terms of the act and regulations.</p> <p>The contractor shall appoint in writing a capable, responsible full-time employee who will ensure that activities and operations pertaining to this contract, are undertaken in a reasonable fashion which is commensurate with the prescriptions of all relevant legislation, as contemplated in Section 16 (2) of the Occupational Health and Safety Act.</p> <p>The Contractor shall provide proof of registration with Workman's Compensation Commissioner in terms of the Workman's Compensation Act.</p>				
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	The Contractor shall provide proof of registration with the Department of Labour and that all fees in terms of Compensation for Occupational Injuries and Diseases are fully paid up.			
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:.....	Item		
6	Contractor's site representative (clause 6)			
	F:..... V:.....			
	T:.....	Item		
7	Compliance with laws and regulations (clause 7)			
	F:..... V:.....			
	T:.....	Item		
8	Works risk (clause 8)			
	F:..... V:.....			
	T:.....	Item		
9	Indemnities (clause 9)			
	F:..... V:.....			
	T:.....	Item		
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10	Works insurance (clause 10) Refer to 42.3.1 for details of insurance. F:..... V:..... T:.....	Item		
11	Liability insurances (clause 11) Refer to 42.3.3 and 42.3.4 for details of insurance. F:..... V:..... T:.....	Item		
12	Effecting insurances (clause 12) Refer to 42.3.3 and 42.3.4 for details of insurance. F:..... V:..... T:.....	Item		
13	Assignment (clause 13) F:..... V:..... T:.....	Item		
14	Security (clause 14)Refer to 42.5.7 for details of security.F:..... V:..... T:.....	Item		
<u>Execution (A15-A23)</u>				
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.				
15	Preparation for and execution of the works (clause 15) F:..... V:..... T:.....	Item		
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16	Site and access (clause 16) F:..... V:..... T:.....	Item		
17	Contract instructions (clause 17) F:..... V:..... T:..... Contract price adjustment provisions (CPAP) [Refer clause 31.5.3] The monetary provision for statutory increases (CPAP) must be omitted and the value thereof and the contract value shall be adjusted according to the JBCC CPAP. YES - The provision and the contract sum will be adjusted in accordance with the Contract Price Adjustment Provisions (CPAP) as set out in the CPAP Manual and Reference guide as prepared by the Joint Building Contracts Committee (JBCC) series 2000, Code 2105).	Item		
18	Setting out of the works (clause 18) F:..... V:..... T:.....	Item		
19	Temporary works and plant (clause 19) F:..... V:..... T:.....	Item		
20	Nominated subcontractors (clause 20) F:..... V:..... T:.....	Item		
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21	<p>Selected subcontractors (clause 21)</p> <p>F:..... V:.....</p> <p>T:.....</p>	<div></div> Item		
22	<p>Employer's direct contractors (clause 22)</p> <p>F:..... V:.....</p> <p>T:.....</p>	<div></div> Item		
23	<p>Contractor's domestic subcontractors (clause 23)</p> <p>F:..... V:.....</p> <p>T:.....</p> <p><u>Completion (A24-A30)</u></p>	<div></div> Item		
24	<p>Practical completion (clause 24)</p> <p>F:..... V:.....</p> <p>T:.....</p>	<div></div> Item		
25	<p>Works completion (clause 25)</p> <p>F:..... V:.....</p> <p>T:.....</p>	<div></div> Item		
26	<p>Final completion (clause 26)</p> <p>F:..... V:.....</p> <p>T:.....</p>	<div></div> Item		
27	<p>Latent defects liability period (clause 27)</p> <p>F:..... V:.....</p> <p>T:.....</p>	<div></div> Item		
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28	Sectional completion (clause 28) F:..... V:..... T:.....	Item		
29	Revision of date for practical completion (clause 29) F:..... V:..... T:.....	Item		
30	Penalty for late or noncompletion (clause 30) F:..... V:..... T:.....	Item		
<u>Payment (A31 - A35)</u>				
31	Interim payment to the contractor (clause 31)Refer to 42.5.3 for details of payment.F:..... V:..... T:.....			
Contract price adjustment provisions (CPAP) [Refer clause 31.5.3] The monetary provision for statutory increases (CPAP) must be omitted and the value thereof and the contract value shall be adjusted according to the JBCC CPAP. YES - The provision and the contract sum will be adjusted in accordance with the Contract Price Adjustment Provisions (CPAP) as set out in the CPAP Manual and Reference guide as prepared by the Joint Building Contracts Committee (JBCC) series 2000, Code 2105).				
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32 Adjustment to the contract value (clause 32) Refer to 42.5.4 and 42.5.5 for details of preliminaries adjustment. F:..... V:.....
T:.....

Contract price adjustment provisions (CPAP)
[Refer clause 31.5.3] The monetary provision for statutory increases (CPAP) must be omitted and the value thereof and the contract value shall be adjusted according to the JBCC CPAP.
YES - The provision and the contract sum will be adjusted in accordance with the Contract Price Adjustment Provisions (CPAP) as set out in the CPAP Manual and Reference guide as prepared by the Joint Building Contracts Committee (JBCC) series 2000, Code 2105).

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Notwithstanding the provisions of clause 31.5.3 or any other clause all fluctuations in costs shall be for the account of the contractor. See also clause 42.4.6.

33 Recovery of expense and loss (clause 33)

F:..... V:.....

T:.....

Item

34 Final account and final payment (clause 34)

F:..... V:.....

T:.....

Item

35 Payment to other parties (clause 35)

F:..... V:.....

T:.....

Item

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<u>Termination (A36-A39)</u>				
36	Termination by employer - Contractor's default (clause 36) F:..... V:..... T:.....	Item		
37	Termination by employer - Loss and damage (clause 37) F:..... V:..... T:.....	Item		
38	Termination by contractor - Employer's default (clause 38) F:..... V:..... T:.....	Item		
39	Termination - Cessation of the works (clause 39) F:..... V:..... T:.....	Item		
<u>Dispute (A40)</u>				
40	Settlement of disputes (clause 40) F:..... V:..... T:.....	Item		
<u>State provisions</u>				
41	State substitutions (clause 41) F:..... V:..... T:.....	N/A		
<u>Contract variables (A42)</u>				
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The schedule: Pre-tender information (clause 42)

Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder.

42.1 CONTRACTING AND OTHER PARTIES

42.1.1 Employer:

Postal Address:

Telephone:

Facsimile:

Domicilium:

E-mail

42.1.2 Principal Agent:

Postal address:

Telephone

Facsimile

E-mail

42.1.3 Agents service:

Agent (1)

Postal address:

Telephone

Facsimile

E-mail

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42.1.4 Agents service: Quantity Surveyor

Agent (2)

Postal address:

Telephone

Facsimile

E-mail

42.1.5 Agents service:

Agent (3)

Postal address:

Telephone:

Facsimile:

E-mail:

42.1.6 Agents service:

Agent (4)

Postal address:

Telephone:

Facsimile:

E-mail:

42.2 CONTRACT DETAILS

42.2.1 Works Description:

42.2.2 Site Description:

42.2.3 Work for installation by others:

42.2.4 Government Contract:

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42.2.5 Possession of the site is to be given on:

To be in terms of clause 15.2.1 and to be
agreed
on signing of the Contract.

42.2.6 Period for the commencement of the works after
the contractor takes possession of the site:
Working days: Five (5) days

42.2.7 Completion in sections:

Completion in sections is required.

42.2.8 For the works as a whole: The date for
practical

completion is to be in terms of clause 24.3.1
and to be **taken 6 months (excluding builders**
shutdown) after site handover and the **penalty**
per calender day is to be in terms of clause 30.1.3.

42.2.9. The law applicable to this agreement:
South African

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42.3 INSURANCES

Refer 42.3.1

(10.1; 10.2; 12.1)

The Contract works insurance shall be effected by the employer for the sum of R **contract sum** inclusive of VAT.

Refer 42.3.2

(10.1; 10.2; 12.1)

Supplementary insurance required (No)

Refer 42.3.3

(11.1; 12.1)

The Public Liability insurance is to be effected by the employer for the sum of R **5 000,000.00 (Five Million Rand)** (Public insurance is covered under and forms part of the Contract works insurance policy)

Refer 42.3.4

(11.2; 12.1)

The Support insurance is to be effected by the employer for the sum of R **5 000,000.00 (Five Million Rand)**

42.4 DOCUMENTS

42.4.1 Waivers of contractor's lien is required: Yes

42.4.2 Construction document copies to be supplied to the **contractor** free of charge: No. 3

42.4.3 State other system if document is not drawn up in accordance with the Standard System of Measuring Building Work: Standard System Sixth (Revised) Edition Dated 1999.

42.4.4 On acceptance of the tender the priced document is to be submitted within **14 working days**.

42.4.5 JBCC Engineering General Conditions are to be included in the documents: (No)

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42.4.6 Contract price adjustment provisions (CPAP)

[Refer clause 31.5.3] The monetary provision for statutory increases (CPAP) must be omitted and the value thereof and the contract value shall be adjusted according to the JBCC CPAP.

YES - The provision and the contract sum will be adjusted in accordance with the Contract Price Adjustment Provisions (CPAP) as set out in the CPAP Manual and Reference guide as prepared by the Joint Building Contracts Committee (JBCC) series 2000, Code 2105).

Where CPAP is to be used the base month is:
April 2019 (*for pre-tender escalation*)

42.4.7 Details of changes made to the provision of JBCC standard documentation: Refer 42.5.7.
 Security to be provided by contractor. The contractor shall submit, together with his tender submission, proof (to the satisfaction of the employer) that he is able to provide the selected security in terms of 14.0. such proof must be in the form of a written statement from a registered financial institution.

The schedule: Post-tender information (clause 42)

Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder.

42.5 CONTRACT DETAILS

42.5.3 Issue of payment certificate:

Latest day of the month for the issue of an interim payment certificate: 25th day of the month.

42.5.4 Payment of preliminaries

Alternative selected by Contractor: (A or B)

42.5.5 Adjustment of preliminaries

Alternative selected by Contractor: (A or B)

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42.5.6 Payment guarantee

The payment guarantee effected by the
employer for the sum according to JBCC Payment
Guarantee form and as stated in the schedule.

42.5.7 Security

The security to be provided by contractor are to
be one of the following:

(1) Variable construction guarantee

(2) Fixed construction guarantee

(3) Cash deposit of 10% of the contract sum

42.5.8 The annual building holiday period after the
commencement of the construction period:

To be in terms of clause 29.7.2

42.6 DOCUMENTS

Refer clause 42.6.1 - other documents
(1.1)

Health and Safety Specification

Please note that a Health and Safety
Specification for Construction work is included
with this Document as well as a agreement form and
both documents must be signed as part of the
contract.

Returnable Schedules

Please note that a Returnable Schedule is
included with this Document and must be returned with
the tender as part of the contract.

HIV - Aids Specification

Please note that a HIV - Aids Specification is
included with this Document and forms part of
the contract.

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42.7 DISPUTE RESOLUTION

42.7 Dispute resolution

The default dispute resolution process is adjudication

Where adjudication is not to apply, arbitration or mediation will be applied for dispute resolution.

be Name of arbitrator / mediator or adjudicator to
the nominated by the President for the time being of
Institute of South African Architects.

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SECTION B: PRELIMINARIES

Definition and interpretation (B1)

42 Definition and interpretation (B1.1 - B1.6.5)

F:..... V:.....

T:.....

Item

Documents (B2)

43 Checking of documents (B2.1)

F:..... V:.....

T:.....

These bills of quantities contain pages and annexures as indexed on the flyleaf

The items in these bills of quantities are to be read and priced in conjunction with and the descriptions regarded as amplified by the Model Preambles for Trades as recommended and published by the Association of South African Quantity Surveyors, 1999 edition, and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained.

Item

44 Provisional bills of quantities (B2.2)

F:..... V:.....

T:.....

Item

45 Availability of construction documentation (B2.3)

F:..... V:.....

T:.....

Item

46 Interests of agents (B2.4)

F:..... V:.....

T:.....

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47	<p>Priced documents (B2.5)</p> <p>F:..... V:.....</p> <p>T:.....</p>	Item	
48	<p>Tender submission (B2.6)</p> <p>Notwithstanding anything contained in this clause tenders shall be valid for a period of 90 days from the closing date of tenders.</p> <p>F:..... V:.....</p> <p>T:.....</p> <p><u>The site (B3)</u></p>	Item	
49	<p>Defined works area (B3.1)</p> <p>The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site</p> <p>F:..... V:.....</p> <p>T:.....</p>	Item	
50	<p>Geotechnical investigation (B3.2)</p> <p>F:..... V:.....</p> <p>T:.....</p>	N/A	
51	<p>Inspection of the site (B3.3)</p> <p>F:..... V:.....</p> <p>T:.....</p> <p>No claims for extras arising from the contractor having failed to comply with this clause will be entertained</p>	Item	
52	<p>Existing premises occupied (B3.4)</p> <p>F:..... V:.....</p> <p>T:.....</p>	Item	
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53	Previous work - dimensional accuracy (B3.5)			
	F:..... V:.....			
	T:.....	Item		
54	Previous work - defects (B3.6)			
	F:..... V:.....			
	T:.....	Item		
55	Services - known (B3.7)			
	F:..... V:.....			
	T:.....	Item		
56	Services - unknown (B3.8)			
	F:..... T:.....	Item		
57	Protection of trees (B3.9)			
	F:..... V:.....			
	T:.....	Item		
58	Articles of value (B3.10)			
	F:..... V:.....			
	T:.....	Item		
59	Inspection of adjoining properties etc (B3.11)			
	F:..... V:.....			
	T:.....	Item		
	<u>Management of contract (B4)</u>			
60	Management of the works (B4.1)			
	F:..... V:.....			
	T:.....	Item		
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61	Programmine for the works (B4.2)				
	F:..... V:.....				
	T:.....	Item			
62	Progress meetings (B4.3)				
	F:..... V:.....				
	T:.....	Item			
63	Technical meetings (B4.4)				
	F:..... V:.....				
	T:.....	Item			
64	Labour and plant records (B4.5)				
	F:..... V:.....				
	T:.....	Item			
	<u>Samples and shop drawings (B5)</u>				
65	Samples of materials (B5.1)				
	F:..... V:.....				
	T:.....	Item			
66	Workmanship samples (B5.2)				
	F:..... V:.....				
	T:.....	Item			
67	Shop drawings (B5.3)				
	F:..... V:.....				
	T:.....	Item			
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<u>Temporary services (B7)</u>				
75	Location (B7.1) F:..... V:..... T:.....	Item		
76	Water (B7.2) F:..... V:..... T:.....	Item		
77	Electricity (B7.3) F:..... V:..... T:.....	Item		
78	Telecommunication facilities (B7.4) F:..... V:..... T:.....	Item		
79	Ablution facilities (B7.5) F:..... V:..... T:.....	Item		
<u>Prime cost amounts (B8)</u>				
80	Responsibility for prime cost amounts (B8.1) F:..... V:..... T:.....	Item		
<u>Attendance on N/S Subcontractors (B9)</u>				
81	General attendance (B9.1) F:..... V:..... T:.....	Item		
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82	Special attendance (B9.2) F:..... V:..... T:.....	Item		
83	Commissioning - Fuel, water and electricity (B9.3) F:..... V:..... T:.....	Item		
84	<u>NOTE:</u> Allow an amount of One Million Four Hundred and Seven Thousand Five Hundred & Forty-Five Rands & Eighty Cents (R1 407 545.80) for the value of work done and owed to the Domestic Subcontractors to be certified upon approval in writing by the Client's Project Manager. <u>Financial aspects (B10)</u> Statutory taxes, duties and levies (B10.1) F:..... V:..... T:..... Provision are made in the summary of these bills of quantities for the inclusion of Value Added Tax (VAT)	Item	1 407 545.80	
85	Payment of preliminaries (B10.2) F:..... V:..... T:.....	Item		
86	Adjustment of preliminaries (B10.3) F:..... V:..... T:.....	Item		
87	Payment certificate cash flow (B10.4) F:..... V:..... T:.....	Item		
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88	Contractor information supply (B10.5) F:..... V:..... T:.....	Item		
	<u>General (B11)</u>			
89	Protection of works (B11.1) F:..... V:..... T:.....	Item		
90	Protection/isolation of existing/sectionally occupied works (B11.2) F:..... V:..... T:.....	Item		
91	Security of the works (B11.3) F:..... V:..... T:.....	Item		
92	Notice before covering work (B11.4) F:..... V:..... T:.....	Item		
93	Disturbance (B11.5) F:..... V:..... T:.....	Item		
94	Enviromental disturbance (B11.6) F:..... V:..... T:.....	Item		
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95	Works cleaning and clearing (B11.7)			
	F:..... V:.....			
	T:.....	Item		
96	Vermin (B11.8)			
	F:..... V:.....			
	T:.....	Item		
97	Overhand work (B11.9)			
	F:..... V:.....			
	T:.....	Item		
98	Instruction manuals and guarantees (B11.10)			
	F:..... V:.....			
	T:.....	Item		
99	As built information (B11.11)			
	F:..... V:.....			
	T:.....	Item		
100	Tenant installations (B11.12)			
	F:..... V:.....			
	T:.....	Item		
<u>Schedule of variables (B12)</u>				
Information necessary for elections and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that either no details or specific requirements are available or that the clause is not relevant to this specific contract				
12.1.1 Provisional bills of quantities (B2.2)				
The quantities are provisional: (Yes)				
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12.1.2	Availability of construction documentation (B2.3)			
	Construction documentation is complete (No)			
12.1.3	Interest of agents (B2.4)			
12.1.4	Defined works area (B3.1)			
	The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site.			
	The Contractor is to make good any damage caused to grassed areas, plantings, roadways, kerbing, paths and to any of the existing buildings and structures on site at the completion of the works.			
12.1.5	Geotechnical investigation (B3.2) (N/A)			
12.1.6	Existing premises occupied (B3.4) (Yes)			
	The contractor is to note that the Studio will be in continuous use throughout the contract and he is to make allowance therefor. The renovations to the existing areas will have to be co-ordinated with the Studio authorities and there could be times when the contractors will not be able to work in certain areas. The contractor is to allow for possible overtime and/or weekend work where work will not be allowed during normal working hours. All overtime and/or weekend work must be arranged with the studio authorities. All costs will be to the contractors expense.			
12.1.7	Previous work - dimensional accuracy (B3.5) (No - Contractor to verify on site)			
12.1.8	Previous work - defects (B3.6) (Yes)			
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<p>12.1.9 Services - known (B3.7) (Yes)</p> <p>Existing services and points of connection are shown on the site plan or will be pointed out on site by the principal agent. The contractor will at his own cost however be responsible for conducting his own investigations to ascertain the extent of services.</p>			
<p>12.1.10 Protection of trees (B3.9) (Yes)</p> <p>None of the existing trees, palms, shrubs or plants are to be cut or removed prior arrangement with the Architect. Care is to be exercised in protecting trees, palms, shrubs and plants around the site from damage or destruction.</p>			
<p>12.1.11 Inspection of adjoining properties (B3.11) (Yes)</p> <p>No specific additional requirements are prescribed.</p>			
<p>12.1.12 Progress meetings (B4.3)</p> <p>It is imperative that the Contractor attend site meetings. Any abortive costs incurred by Consultants due to the Contractor not attending meetings, or appointments on site will be deducted from the Contractor's progress payments.</p>			
<p>12.1.13 Enclosure of the works (B6.2) (Yes)</p> <p>Hoarding is required - refer to architects plan</p>			
<p>12.1.14 Offices (B6.4.3) (Yes)</p> <p>Minimum noise levels are required. Offices will be in use at all times</p>			
<p>12.1.15 Main notice board (B6.5) (Yes)</p> <p>Standard notice board is to be provided.</p>			
<p>12.1.16 Subcontractors notice board (B6.6) (No)</p>			
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SECTION C: SPECIFIC PRELIMINARIES

101 Proprietary branded products

The contractor shall take delivery of, handle, store, use apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instruction after consultation with the manufacturer's authorised representative

F:..... V:.....
T:.....

Item

102 Overtime

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 the execution thereof, that costs for such overtime are to be borne by the employer.

F:..... V:.....
T:.....

Item

103 As Built Drawings

The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.

F:..... V:.....
T:.....

Item

104 Site instructions

Site 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

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105	<p>Labour record</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 and description of tradesmen and labourers employed by him and all subcontractors on the works each day.</p> <p>F:..... V:..... T:.....</p>	Item		
106	<p>Plant record</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, currently used on the works.</p> <p>F:..... V:..... T:.....</p>	Item		
107	<p>Non Cession of Monies</p> <p>The contractor shall not cede nor assign his rights or claims to any monies due or to become due under this contract</p> <p>F:..... V:..... T:.....</p>	Item		
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	<u>SECTION NO. 2</u>			
	<u>BILL NO 1</u>			
	<u>PREFABRICATED CLASSROOMS</u>			
	<u>PREAMBLES</u>			
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
	<u>NOTE TO CONTRACTOR</u>			
	"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
	<u>EXTERNAL WORKS, ETC.</u>			
	<u>DEFECTIVE WORK</u>			
1	Enclosing the bottom of the prefabricated units with galvanised metal sheeting or similar material to match the prefabricated wall material painted one side with two coats PVA, including bracing, etc. firmly secured, with and including taping hoardings all round to form a dust proof screen(Labour Intensive)	m ²	80	
2	Supply and install galvanised mild steel entrance steps approximately 850mm wide x 300mm high with a non-slip stair threads to existing prefabricated classroom.	No	10	
3	Allow for inspection of the existing x10 8mx7m long prefabricated structures and provide certificates of compliance.			
		Item		
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	PREFABRICATED BUILDINGS			

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4 Allow for making good all defects and breakages to the existing x10 8mx7m long prefabricated structures.

Item

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PREFABRICATED BUILDINGS
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 PREFABRICATED BUILDINGS

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	<u>SECTION 3</u>			
	<u>BILL NO 1</u>			
	<u>EARTHWORKS</u>			
	<u>PREAMBLES</u>			
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
	<u>NOTE TO CONTRACTOR</u>			
	"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Nature of ground</u>			
	The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock".			
	The nature of the ground is assumed to be gravel, therefore "earth", but possibly interspersed with "soft rock".			
	The nature of the ground is assumed to be silty clay with loose river boulders varying in size up to approximately 450mm diameter, therefore "earth", but possibly interspersed with "hard rock".			
	Trial holes indicate that the nature of the ground is silty clay to a depth of approximately 500mm with fine to medium loose sandy material below, therefore "earth". The trial holes also indicate that the water table is at a maximum depth of approximately 1000mm.			
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	EARTHWORKS			

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

SITE CLEARANCE ETC

Site clearance

- | | | | | |
|---|---|----------------|----|--|
| 1 | Stripping average 100mm thick layer of top soil and stockpiling on site | m ² | 59 | |
|---|---|----------------|----|--|

EXCAVATIONS

Open face excavation in earth over sloping site

- | | | | | |
|---|----------------------|----------------|---|--|
| 2 | Open face excavation | m ³ | 2 | |
|---|----------------------|----------------|---|--|

Excavation in earth n.e 2m

- | | | | | |
|---|----------|----------------|----|--|
| 3 | Trenches | m ³ | 10 | |
| 4 | Holes | m ³ | 2 | |

Excavation in earth exceeding 2m and n.e 4m deep

- | | | | | |
|---|-----------------------------|----------------|----|--|
| 5 | Reduced levels under floors | m ³ | 13 | |
| 6 | Trenches | m ³ | 14 | |

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ABLUTION BLOCK 1
 Bill No. 1
 EARTHWORKS

<u>EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER</u>							
<u>Extra over bulk excavation in earth for excavation in</u>							
7	Soft rock	m ³	4				
8	Hard rock	m ³	4				
<u>Extra over trench and hole excavations in earth for excavation in</u>							
9	Soft rock	m ³	7				
10	Hard rock	m ³	3				
<u>Extra over all excavations for carting away</u>							
11	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	25				
<u>Risk of collapse of excavations</u>							
12	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	14				
13	Sides of trench and hole excavations exceeding 1,5m deep n.e 2m deep	m ²	32				
<u>Keeping excavations free of water</u>							
14	Keeping excavations free of water		Item				
<u>FILLING ETC</u>							
<u>Demolished materials consisting of masonry and concrete (free of reinforcement and other harzardous materials) broken up and compacted to engineers specification and set aside to be re- use</u>							
15	In berms,concrete stoeps etc as directed by the Engineer	m ³	10				
<u>Earth filling obtained from the excavations (not compacted)</u>							
16	In prescribed stock piles on site	m ³	24				
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<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density</u>					
17	Under floors, steps, pavings, etc	m ³	5		
<u>Earth filling supplied by the contractor, compacted to 93% Mod AASHTO density</u>					
18	Under floors, steps, pavings, etc	m ³	8		
19	Backfilling to trenches, holes, etc	m ³	17		
<u>Coarse river sand filling supplied by the contractor</u>					
20	Under floors etc	m ³	1		
<u>Compaction of surfaces</u>					
21	Compaction of ground surface under floors etc by wetting and compacting with 4 passes of a 10 ton vibratory roller	m ²	8		
<u>SOIL POISONING</u>					
<u>Soil insecticide</u>					
22	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m ²	21		
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	<u>Facebrick</u>				
	Corobrik 14MPa Firelight Satin Imperial FBX standard clay face-brick, size 222x106x73mm, manufactured in accordance with SANS-227:2007. Bedded together with the internal skin in Class-I mortar (NO Chinese cement). All generally in stretcher-bond and to detail as shown with bonded with brickforce on every third course and two coats FLINTKOTE applied on the Outer-face of the inner-skin brickwork as the work progresses (Flintkote elsewhere measured). Pointed with square recessed horizontal and vertical joints, (5mm deep) All to brick scales: vertical; 4 bricks+4 joints = total 330m				
26	Extra over ordinary brickwork for facing in stretcher bond and pointing.	m ²	33		
27	Face brick on edge window cill set sloping and slightly projecting on bottom edge in 1:5 cement mortar including cutting and fitting between reveals, fair splay cutting under and pointing on top, edge and projecting soffit (In No. 28)	m	4		
28	Face brick cut soldier course window head, formed with cant bricks 170mm high, bedded in 1:5 cement mortar including cutting and fitting between reveals and pointing on top and front face.	m	4		
29	Face brick soldier course band 160mm wide to top of one brick wall bedded in 1:5 cement mortar including pointing to sides and faces	m	9		
	<u>Brickwork reinforcement</u>				
30	75mm Wide reinforcement built in horizontally	m	40		
31	150mm Wide reinforcement built in horizontally	m	170		
	<u>Concrete prestressed fabricated lintels</u>				
32	110 x 75mm Lintels in lengths not exceeding 3m	m	13		
33	110 x 75mm Lintels in lengths not exceeding 3m n.e 4.5m	m	5		
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	MASONRY				

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Galvanised hoop iron cramps, ties, etc

34	30 x 1,6mm Cramp 500mm long with one end fixed to wood and other end built into brickwork	No	30
35	40 x 1,6mm "Tibond" wall tie strips shot pinned to pilaster and with ties bent out and built into brickwork	No	12

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ABLUTION BLOCK 1
 Bill No. 2
 MASONRY

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Item No		Quantity	Rate	Amount R
	<u>BILL NO 3</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
	<u>NOTE TO CONTRACTOR</u>			
	"Where trade preambles,supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u>			
36	In walls	m ²	1	
	<u>One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
37	Under surface beds	m ²	29	
	<u>Pit Linings</u>			
	<u>One coat Sikafloor®-156 and three coats Sikagard®-63 N or other equally approved waterproofing wall system as approved by the Employer on</u>			
38	Walls	m ²	118	
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	Bill No. 3			
	WATERPROOFING			

SEALANTS ETC

39	Silicon pointing to aluminium windows	m	15
	<u>SIKAFELX PRO 2HP or other equally approved sealing compound including backing cord, bond breaker, primer, etc</u>		
40	6 x 10mm In saw cut joints in floors	m	4
41	10 x 10mm Isolation joints in floors	m	45

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WATERPROOFING

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Item No		Quantity	Rate	Amount R
	<u>BILL NO 4</u>			
	<u>ROOF COVERINGS ETC</u>			
	<u>PREAMBLES</u>			
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
	<u>NOTE TO CONTRACTOR</u>			
	"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>Safintra 0.50mm thick WIDEDEK AZ150 G550 interlocking roof sheeting fixed to 75 x 50mm SA pine purlins at 1200mm centres (purlins elsewhere measured) with 2 x galvanised hurricane clip screws fixed at each intersection to premanufactured gang nail type SA pine trusses (trusses elsewhere measured)</u>			
42	Roof coverings with pitches not exceeding 50 degrees	m ²	45	
43	0.5mm thick ridge capping	m	7	
44	0,5mm Thick cover flashing piece to roofing 375mm girth twice times bent, including notching over ribs	m	2	
45	Ditto but purpose made tile to end of ridge	No	3	
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	ROOF COVERINGS			

ROOF AND WALL INSULATION

**"Sisalation 420" heavy industrial grade aluminium
foil based insulation**

46	Insulation laid taut over purlins (at approximately 1,80m centres) and fixed concurrent with roof covering, including taped laps and nylon straining wires	m ²	45	
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ROOF COVERINGS

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Item No	Quantity	Rate	Amount R
<u>BILL NO 5</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>PREAMBLES</u>			
<p>For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.</p>			
<u>NOTE TO CONTRACTOR</u>			
<p>"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail</p>			
<u>ROOFS, ETC</u>			
<u>Plate nailed timber roof truss construction</u>			
<p>Timber roof truss prices are to include for the design, supply, wind category as per SANS 10160 and erection of the trusses into position complete including bolts, connectors, connections, etc. The dimensions of the trusses given in the following descriptions are nominal and the actual measurements for the design and manufacture of the trusses must be taken on site to match existing. The truss spans given are measured horizontally between the outer faces of the wall plates. Permanent bracing and runners have not been measured in accordance with the Standard System of Measuring Builder's Work and are measured as an item, the price of which is to include for the design, supply and fixing of necessary permanent bracing and runners.</p>			
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	<u>Monoplaner Prefabricated Connector Plate Roof</u>				
	<u>Trussesat 1600mm maximum centres with a pitch of</u>				
	<u>25 Degrees and suitable for EVERITE Nutec Bigsix</u>				
	<u>corrugated roof sheeting or other equal approved</u>				
	<u>with 50 x 76mm purlins(elsewhere measured) at</u>				
	<u>1050mm centres and Gypsum plasterboard ceiling</u>				
	<u>(Gypsum plasterboard ceiling elsewhere measured)</u>				
	<u>with brandering at 450mm centres</u>				
47	Truss size 5 100mm span x 1100mm high with 450mm overhang on both sides	No	7		
	<u>Sawn softwood</u>				
48	38 x 114mm Wall plates	m	14		
49	38 x 114mm Bracing	m	89		
50	50 x 76mm Purlins, bolted	m	59		
	<u>Structural Timber</u>				
51	45 x 145mm treated pine beams	m	7		
	<u>Sundries</u>				
52	32 x 1,2mm Galvanised hoop iron roof tie 600mm girth with each end fixed to timber	No	14		
	<u>EAVES, VERGES, ETC</u>				
	<u>Marley white PVC Fascia boards ETC</u>				
53	Eaves soffit coverings 600mm wide of 4mm thick sheets, including 38 x 38mm sawn softwood brandering along edges, along centre and at 1,20m centres across sheets	m ²	9		
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54	<p>225 x 75 x 9mmmm Fascias and barge boards, fascia boards to be in long lengths fixed with two neatly spaced solid brass capped screws to 32x32mm timber cleats screwed to truss sprockets. Marley fascia connectors and end cover caps all strictly as per manufacturer's requirements and installation guides, barge boards to be in long lengths fixed with neatly spaced solid brass capped screws @ 800 centres to 32x44mm timber runner screwed to the undersides of the projecting purlins. Top cap of barge board fixed with galv. roofing screw through to roof sheeting in to purlins. Marley barge connectors and end cover caps all strictly as per manufacturer's requirements and installation guides.</p> <p><u>DOORS, ETC</u></p> <p><u>SABS 545 Solid core doors with vertical tongue and groove boarding on both sides and hardwood edging both vertical sides</u></p>	m	14	
55	<p>44mm Door size 813 x 2032mm high</p> <p><u>FRAMED FRAMES, ETC</u></p> <p><u>Timber frames</u></p>	No	9	
56	<p>108 x 44mm rebated timber door frames with 5 x 5 mm inner rebate and 14 x 14mm chamfered outward exposed edge for stiles and top frame securely retro fixed to walls</p>	m	45	
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	<u>BILL NO 6</u>			
	<u>PARTITIONS</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
	<u>PREAMBLES</u>			
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
	<u>NOTE TO CONTRACTOR</u>			
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	<u>NAILED UP CEILINGS</u>			
	<u>6,4mm Rhino gypsum plasterboard sheets with 63mm wide strips of wire scrim nailed over joints and at junction with walls, surface of ceiling finished smooth with Rhinolite plaster</u>			
57	Horizontal ceilings fixed with ivoryside downwards to and including 38 x 38mm sawn pine brandering at 400mm centres in one direction and behind all joints and with additional brandering at outer edges of rooms.	m ²	22	
	<u>Cornices</u>			
58	75mm Coved cornice.	m	28	
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	CEILINGS ETC			

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	<u>BILL NO 7</u>			
	<u>IRONMONGERY</u>			
	<u>PREAMBLES</u>			
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
	<u>NOTE TO CONTRACTOR</u>			
	"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
	<u>HINGES, BOLTS, ETC</u>			
59	WBH B2451 100x75x3mm stainless steel washered butt hinges, supplied with s/steel fixing screws	Pairs	9.0	
	<u>LOCKS</u>			
	<u>"Union or other equally approved"</u>			
60	Lockset consisting of: One x pair WBH 2246 150mm anodized aluminium pull handles with bolt thru back-to-back furniture, and One x WBH B2148 cylinder dead doorlock - keyed alike for toilets entrance doors - with SC 25mm striker and supplied with two keys for each lock.	No	5	
61	Lockset consisting of: One x pair WBH 2246 150mm anodized aluminium pull handles with bolt thru back-to-back furniture, and One x WBH B2148 cylinder dead doorlock - keyed alike for toilets entrance doors - with SC 25mm striker and supplied with two keys for each lock.	No	1	
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62	BH B3631 satin chrome bathroom indicator bolt	No	3		
	<u>Hi Tech Stainless Steel Products Paraplegic Equipment: Grab Rail</u>				
63	600mm long straight grab rail code HT9 secured with Stainless steel screws as per manufacturers specifications and screw-plugs fixed with epoxy glue into walls.	No	1		
64	Cranked Grab Rail code HT24	No	1		
	<u>SUNDRIES</u>				
	<u>Toilet Roll Holder</u>				
65	Franke STR x 671L wall mounted lockable toilet roll holder including fixing screws and plastic wall plugs epoxy flued to wall	No	4		
	<u>Door Viewer</u>				
	<u>Hat and Coat Hook</u>				
66	WBH B3659 natural anodised Aluminium hat-&-coat hook	No	4		
67	WBH B2743 natural anodised Aluminium hat-&-coat hook - Fixed at 1300mm above floor.	No	1		
	<u>Door Closer</u>				
68	WBH B3659 door stop	No	9		
69	WBH B2392 wall-mounted rubber doorstop with screw-plug fixing epoxy glued to wall - mounte at handle height	No	1		
	<u>Door signs or numbers to be of an approved grey ultra high impact acrylic plastic construction plugged to wall or screwed to door with 15mm countersunk raised head chromium plated screws at each corner or hung from ceilings with two chromium plated chains</u>				
70	200 x 70 x 2.5mm Sign with 40mm high letters to centre of main door leaf 1850mm above ffl (Allow for 10 Letters)	No	5		
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SIGNAGE

71	Pareplegic sign size 150mm x 150mm dorma	No	1
72	Female sign WBH 2314 size152x152mm with rounded corners and polished edges - white ABS plastic with black engraved International cloakroom door signage. 4xflush screwed and epoxy glued at 1500mm high and centre to each toilet entrance door.	No	1
73	Male sign WBH 2313 size152x152mm with rounded corners and polished edges - white ABS plastic with black engraved International cloakroom door signage. 4xflush screwed and epoxy glued at 1500mm high and centre to each toilet entrance door	No	1

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Item No	Quantity	Rate	Amount R
<u>BILL NO 8</u>			
<u>METALWORK</u>			
<u>PREAMBLES</u>			
For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
<u>NOTE TO CONTRACTOR</u>			
"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
<u>HOT DIP GALVANISED STEEL WINDOWS</u>			
<u>The following units refer to the Architects diagrams, details and specifications bound into the back of these bills of quantities and must be adhered to in all respects and all prices are to include all glass, ironmongery,, fixing, sealing etc</u>			
74	Standard window size 533 x 654mm	No 4	
75	Standard window size 899 x 457mm	No 2	
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BURGLAR BARS

The following in hot dip galvanised after fabrication steel burglar bars SPECIFIC TO WINDOW opening size comprising of Two 600mm long x 10mm square galvanized steel bars slotted and epoxy glued into 10mmØ opposite holes in window reveals to top-hang fan lights – spaced 290 apart and aligned to the centre of the window OR Two 1500mm long x 10mm square galvanized steel bars with 245mm 90°cranked ends slotted and glued 65mm deep into holes in the predrilled 10mmØ holes directly opposite eachother in the window reveals to allow for bottom-hang inward opening school type window, refer to the Architects diagrams, details and specifications bound into the back of these bills of quantities and must be adhered to in all respects and all prices are to include all assembly, setting up, building in, etc.

76	Burglar bar to suit opening size 533 x 654mm	No	4
77	Burglar bar to suit opening size size 899 x 457mm	No	2

HOT DIP GALVANISED STEEL POSTS

78	88.9mm x 3mm circular hollow galvanised steel set on concrete footings (footings elsewhere measured)	m	22
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HOT DIP GALVANISED CHANNEL

79	140 x 60 x 15mm galvanised steel U channel fixed to walls with 10 x 140mm corrosion resistant expansion bolt at 600mm centres	m	7
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HOT DIP GALVANISED STEEL GATES

80 Hot dip galvanised single gate size 877mm long x 2225mm high overall, formed of 50 x 30 x 2,5mm thick rectangular hollow section frame with 50 x 30 x 2,5mm thick rectangular hollow section middle rail and 38 x 38 x 2,5mm thick square hollow section tube Diame tergonal braces in between, all sections welded together, with 25 x 25 x 2mm thick square tube bolt frame with 12mm Diameter. x 85mm long bolt (bolt formed of 85mm long high tension solid round bar welded to 76 x 25 x 5mm plate with 14mm Diameter. drilled hole), including drilling hole size 18mm Diameter. through square tube gate frame for bolt opening, with and including three pin hinges (size 25mm Diameter. x 80mm long overall) with 15mm dia. x 30mm long pin and 25mm dia. sheath welded to gate and post

No

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Item No		Quantity	Rate	Amount R
	<u>BILL NO 9</u>			
	<u>PLASTERING</u>			
	<u>PREAMBLES</u>			
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
	<u>NOTE TO CONTRACTOR</u>			
	"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
	<u>SCREEDS</u>			
	<u>Screeds on concrete</u>			
81	50mm Thick on floors and landings	m ² 22		
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork</u>			
82	On walls	m ² 115		
83	In narrow widths not exceeding 300m wide	m ² 9		
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	PLASTERING			

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Item No		Quantity	Rate	Amount R
	<u>BILL NO 10</u>			
	<u>GLAZING</u>			
	<u>PREAMBLES</u>			
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
	<u>NOTE TO CONTRACTOR</u>			
	"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
	<u>TO STEEL WITH PUTTY</u>			
	<u>6.38mm thick laminated safety glass panels. All edges of the glazing panels to be treated and fully sealed with Betaseal to avoid delamination and penetrating stains.</u>			
84	Panes not exceeding 0,1m2.	m ²	2	
	<u>MIRRORS</u>			
85	Polished Stainless steel mirror (1 mm thick) Size: 400x300x1.0mm vertically above each basin 670mm above floor - screw fixed with countersunk stainless steel Philips screws on four corners. Rear surface of the mirror and plastic wall-plugs securely epoxy-glued to wall	No	2	
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	ABLUTION BLOCK 1			
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	GLAZING			

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Item No	Quantity	Rate	Amount R
<u>BILL NO 11</u>			
<u>PAINTWORK</u>			
<u>PREAMBLES</u>			
For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
<u>NOTE TO CONTRACTOR</u>			
"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
<u>PAINTWORK, ETC TO NEW WORK ON</u>			
<u>Apply two coats FLINTKOTE applied on the Outer-face of the inner-skin brickwork as the work progresses</u>			
86	One brick collar bonded walls	m ² 143	
<u>FLOATED PLASTER SURFACES WITH</u>			
<u>One coat Dulux alkali resistant plaster primer and two coats Dulux Pearl glo Waterbased Enamel paint on</u>			
87	Internal walls	m ² 111	
88	Ceilings	m ² 22	
89	Ceilings and cornices	m ² 9	
90	Fascias and barge boards	m ² 4	
<u>WOOD SURFACES WITH</u>			
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Item No		Quantity	Rate	Amount R
	<u>BILL NO 12</u>			
	<u>EXTERNAL WORKS, ETC.</u>			
	<u>PREAMBLES</u>			
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
	<u>NOTE TO CONTRACTOR</u>			
	"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
	<u>APRONS</u>			
	<u>Excavations</u>			
94	Excavate in clay soil to reduce levels not exceeding 2 m deep.	m ³	4	
95	Extra over excavations in earth for excavation in soft rock.	m ³	0.4	
96	Ditto in hard rock.	m ³	0.2	
97	Extra over all excavations for carting surplus excavated material from the site.	m ³	4	
98	Scarify ground to a depth of 150 mm and re compact to 93% Mod. AASHTO density.	m ²	14	
99	250 Micron polyethylene sheeting in accordance with SABS 952 Type C lapped 150 mm at joints and sealed with pressure sensitive tape and laying under concrete surface bed.	m ²	16	
100	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m ²	14	
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	EXTERNAL WORKS			

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101	Approved G5 material and consolidate in layers not exceeding 150mm thick to 98% Mod. AASHTO density in backfilling to foundation excavations.	m ³	2		
	<u>Cement concrete (25 MPa - 19 mm stone) in</u>				
102	Surface bed cast in panels.	m ³	2		
	<u>Sundries</u>				
103	Extra for broom swept non slip finish to surface bed including any additional cement necessary	m ²	14		
	<u>Formwork</u>				
104	Formwork to edge not exceeding 300 mm high.	m	23		
	<u>Expansion joints</u>				
105	10mm Thick expansion joint filler not exceeding 300mm wide vertically between concrete or brick surfaces.	m	14		
106	Rake out 10 mm wide expansion joint for a depth of 15 mm, clean, prime and seal with an approved external quality polyurethane sealing compound applied with a pressure caulking gun.	m	14		
	<u>STORMWATER DRAINAGE(CPAP Work Group No. 146 Unless Otherwise Stated)</u>				
107	Cement concrete (15MPa) apron with light shallow V-shaped open-ended channel size 1500 x 85mm overall to extreme with 1500 x 40mm deep (approximately) extreme tapered channel formed in same to falls and finished with wood float to non slip finish with angles rounded, laid to falls in lengths not exceeding 2000mm on a well rammed earth bottom, jointed in 3.1 cement mortar including excavation exceeding 1m but n.e 2 metres deep,filling, casing, ramming and depositing and levelling spoil on site where directed.	m	10		
	<u>ELEVATED WATER TANKS</u>				
108	Allow the provisional Sum of R 650 000 (Six Hundred and Fifty Thousand Rand) nett for the supply and fitting of an elevated water tank and drilling a borehole complete by a nominated subcontractor.			Item	
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Item No		Quantity	Rate	Amount R
	<u>SECTION 4</u>			
	<u>BILL NO 1</u>			
	<u>PRECAST CONCRETE</u>			
	<u>PREAMBLES</u>			
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
	<u>NOTE TO CONTRACTOR</u>			
	"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
	<u>PRECAST CONCRETE ACCESS PANELS</u>			
1	910 x 375 x 100mm thick precast concrete pit latrine access panel complete with concealed key holes on sides and rubber seal on soffits	m	2	
2	Ditto but 930 x 375 x 100mm thick precast concrete pit latrine access panel complete with concealed key holes on sides and rubber seal on soffits	No	2	
3	Ditto but 1110 x 375 x 100mm thick precast concrete pit latrine access panel complete with concealed key holes on sides and rubber seal on soffits	No	2	
4	Ditto but 1890 x 375 x 100mm thick precast concrete pit latrine access panel	No	2	
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	PRECAST CONCRETE			

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	<u>Corobrik 14MPa Firelight Satin Imperial FBX standard clay face-brick, size 222x106x73mm, manufactured in accordance with SANS-227:2007. Bedded together with the internal skin in Class-I mortar (NO Chinese cement). All generally in stretcher-bond and to detail as shown with bonded with brickforce on every third course and two coats FLINTKOTE applied on the Outer-face of the inner-skin brickwork as the work progresses (Flintkote elsewhere measured). Pointed with square recessed horizontal and vertical joints, (5mm deep) All to brick scales: vertical; 4 bricks+4 joints = total 330m</u>				
8	Extra over ordinary brickwork for facing in stretcher bond and pointing.	m ²	33		
9	Face brick on edge window cill set sloping and slightly projecting on bottom edge in 1:5 cement mortar including cutting and fitting between reveals, fair splay cutting under and pointing on top, edge and projecting soffit (In No. 28)	m	4		
10	Face brick cut soldier course window head, formed with cant bricks 170mm high, bedded in 1:5 cement mortar including cutting and fitting between reveals and pointing on top and front face.	m	4		
11	Face brick soldier course band 160mm wide to top of one brick wall bedded in 1:5 cement mortar including pointing to sides and faces	m	9		
	<u>Brickwork reinforcement</u>				
12	75mm Wide reinforcement built in horizontally	m	40		
13	150mm Wide reinforcement built in horizontally	m	170		
	<u>Concrete prestressed fabricated lintels</u>				
14	110 x 75mm Lintels in lengths not exceeding 3m	m	13		
15	110 x 75mm Lintels in lengths not exceeding 3m n.e 4.5m	m	5		
	<u>Galvanised hoop iron cramps, ties, etc</u>				
16	30 x 1,6mm Cramp 500mm long with one end fixed to wood and other end built into brickwork	No	30		
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	Bill No. 2				
	MASONRY				

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Item No		Quantity	Rate	Amount R
	<u>BILL NO 3</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
	<u>NOTE TO CONTRACTOR</u>			
	"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u>			
18	In walls	m ²	1	
	<u>One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
19	Under surface beds	m ²	29	
	<u>Pit Linings</u>			
	<u>One coat Sikafloor®-156 and three coats Sikagard®-63 N or other equally approved waterproofing wall system as approved by the Employer on</u>			
20	Walls	m ²	118	
	<u>SEALANTS ETC</u>			
21	Silicon pointing to aluminium windows	m	15	
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	WATERPROOFING			

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**SIKAFELX PRO 2HP or other equally approved
sealing compound including backing cord, bond
breaker, primer, etc**

22	6 x 10mm In saw cut joints in floors	m	4
23	10 x 10mm Isolation joints in floors	m	45

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Item No		Quantity	Rate	Amount R
<u>BILL NO 4</u>				
<u>ROOF COVERINGS ETC</u>				
<u>PREAMBLES</u>				
For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.				
<u>NOTE TO CONTRACTOR</u>				
"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<u>Safintra 0.50mm thick WIDEDEK AZ150 G550 interlocking roof sheeting fixed to 75 x 50mm SA pine purlins at 1200mm centres (purlins elsewhere measured) with 2 x galvanised hurricane clip screws fixed at each intersection to premanufactured gang nail type SA pine trusses (trusses elsewhere measured)</u>				
24	Roof coverings with pitches not exceeding 50 degrees	m²	45	
25	0.5mm thick ridge capping	m	7	
26	0,5mm Thick cover flashing piece to roofing 375mm girth twice times bent, including notching over ribs	m	2	
27	Ditto but purpose made tile to end of ridge	No	3	
<u>ROOF AND WALL INSULATION</u>				
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ROOF COVERINGS				

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28	<p><u>"Sisalation 420" heavy industrial grade aluminium foil based insulation</u></p> <p>Insulation laid taut over purlins (at approximately 1,80m centres) and fixed concurrent with roof covering, including taped laps and nylon straining wires</p>	m ²	45	
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	ABLUTION BLOCK 2 Bill No. 4 ROOF COVERINGS			

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ROOF COVERINGS

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ROOF COVERINGS

Item No	Quantity	Rate	Amount R
<u>BILL NO 5</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>PREAMBLES</u>			
<p>For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.</p>			
<u>NOTE TO CONTRACTOR</u>			
<p>"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail</p>			
<u>ROOFS, ETC</u>			
<u>Plate nailed timber roof truss construction</u>			
<p>Timber roof truss prices are to include for the design, supply, wind category as per SANS 10160 and erection of the trusses into position complete including bolts, connectors, connections, etc. The dimensions of the trusses given in the following descriptions are nominal and the actual measurements for the design and manufacture of the trusses must be taken on site to match existing. The truss spans given are measured horizontally between the outer faces of the wall plates. Permanent bracing and runners have not been measured in accordance with the Standard System of Measuring Builder's Work and are measured as an item, the price of which is to include for the design, supply and fixing of necessary permanent bracing and runners.</p>			
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36	<p>225 x 75 x 9mmmm Fascias and barge boards, fascia boards to be in long lengths fixed with two neatly spaced solid brass capped screws to 32x32mm timber cleats screwed to truss sprockets. Marley fascia connectors and end cover caps all strictly as per manufacturer's requirements and installation guides, barge boards to be in long lengths fixed with neatly spaced solid brass capped screws @ 800 centres to 32x44mm timber runner screwed to the undersides of the projecting purlins. Top cap of barge board fixed with galv. roofing screw through to roof sheeting in to purlins. Marley barge connectors and end cover caps all strictly as per manufacturer's requirements and installation guides.</p> <p><u>DOORS, ETC</u></p> <p><u>SABS 545 Solid core doors with vertical tongue and groove boarding on both sides and hardwood edging both vertical sides</u></p>	m	14	
37	<p>44mm Door size 813 x 2032mm high</p> <p><u>FRAMED FRAMES, ETC</u></p> <p><u>Timber frames</u></p>	No	9	
38	<p>108 x 44mm rebated timber door frames with 5 x 5 mm inner rebate and 14 x 14mm chamfered outward exposed edge for stiles and top frame securely retro fixed to walls</p>	m	45	
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ABLUTION BLOCK 2 Bill No. 5 CARPENTRY AND JOINERY				

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Item No		Quantity	Rate	Amount R
	<u>BILL NO 6</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
	<u>PREAMBLES</u>			
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
	<u>NOTE TO CONTRACTOR</u>			
	"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
	<u>NAILED UP CEILINGS</u>			
	<u>6,4mm Rhino gypsum plasterboard sheets with 63mm wide strips of wire scrim nailed over joints and at junction with walls, surface of ceiling finished smooth with Rhinolite plaster</u>			
39	Horizontal ceilings fixed with ivoryside downwards to and including 38 x 38mm sawn pine brandering at 400mm centres in one direction and behind all joints and with additional brandering at outer edges of rooms.	m ²	22	
	<u>Cornices</u>			
40	75mm Coved cornice.	m	28	
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	CEILINGS ETC			

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Item No		Quantity	Rate	Amount R
	<u>BILL NO 7</u>			
	<u>IRONMONGERY</u>			
	<u>PREAMBLES</u>			
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
	<u>NOTE TO CONTRACTOR</u>			
	"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
	<u>HINGES, BOLTS, ETC</u>			
41	WBH B2451 100x75x3mm stainless steel washered butt hinges, supplied with s/steel fixing screws	Pairs	9.0	
	<u>LOCKS</u>			
	<u>"Union or other equally approved"</u>			
42	Lockset consisting of: One x pair WBH 2246 150mm anodized aluminium pull handles with bolt thru back-to-back furniture, and One x WBH B2148 cylinder dead doorlock - keyed alike for toilets entrance doors - with SC 25mm striker and supplied with two keys for each lock.	No	5	
43	Lockset consisting of: One x pair WBH 2246 150mm anodized aluminium pull handles with bolt thru back-to-back furniture, and One x WBH B2148 cylinder dead doorlock - keyed alike for toilets entrance doors - with SC 25mm striker and supplied with two keys for each lock.	No	1	
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44	BH B3631 satin chrome bathroom indicator bolt	No	3		
	<u>Hi Tech Stainless Steel Products Paraplegic Equipment: Grab Rail</u>				
45	600mm long straight grab rail code HT9 secured with Stainless steel screws as per manufacturers specifications and screw-plugs fixed with epoxy glue into walls.	No	1		
46	Cranked Grab Rail code HT24	No	1		
	<u>SUNDRIES</u>				
	<u>Toilet Roll Holder</u>				
47	Franke STR x 671L wall mounted lockable toilet roll holder including fixing screws and plastic wall plugs epoxy flued to wall	No	4		
	<u>Door Viewer</u>				
	<u>Hat and Coat Hook</u>				
48	WBH B3659 natural anodised Aluminium hat-&-coat hook	No	4		
49	WBH B2743 natural anodised Aluminium hat-&-coat hook - Fixed at 1300mm above floor.	No	1		
	<u>Door Closer</u>				
50	WBH B3659 door stop	No	9		
51	WBH B2392 wall-mounted rubber doorstop with screw-plug fixing epoxy glued to wall - mounte at handle height	No	1		
	<u>Door signs or numbers to be of an approved grey ultra high impact acrylic plastic construction plugged to wall or screwed to door with 15mm countersunk raised head chromium plated screws at each corner or hung from ceilings with two chromium plated chains</u>				
52	200 x 70 x 2.5mm Sign with 40mm high letters to centre of main door leaf 1850mm above ffl (Allow for 10 Letters)	No	5		
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SIGNAGE

53	Pareplegic sign size 150mm x 150mm dorma	No	1
54	Female sign WBH 2314 size152x152mm with rounded corners and polished edges - white ABS plastic with black engraved International cloakroom door signage. 4xflush screwed and epoxy glued at 1500mm high and centre to each toilet entrance door.	No	1
55	Male sign WBH 2313 size152x152mm with rounded corners and polished edges - white ABS plastic with black engraved International cloakroom door signage. 4xflush screwed and epoxy glued at 1500mm high and centre to each toilet entrance door	No	1

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<u>BILL NO 8</u>			
<u>METALWORK</u>			
<u>PREAMBLES</u>			
For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
<u>NOTE TO CONTRACTOR</u>			
"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
<u>HOT DIP GALVANISED STEEL WINDOWS</u>			
<u>The following units refer to the Architects diagrams, details and specifications bound into the back of these bills of quantities and must be adhered to in all respects and all prices are to include all glass, ironmongery,, fixing, sealing etc</u>			
56	Standard window size 533 x 654mm	No 4	
57	Standard window size 899 x 457mm	No 2	
<u>BURGLAR BARS</u>			
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The following in hot dip galvanised after fabrication steel burglar bars SPECIFIC TO WINDOW opening size comprising of Two 600mm long x 10mm square galvanized steel bars slotted and epoxy glued into 10mmØ opposite holes in window reveals to top-hang fan lights – spaced 290 apart and aligned to the centre of the window OR Two 1500mm long x 10mm square galvanized steel bars with 245mm 90°cranked ends slotted and glued 65mm deep into holes in the predrilled 10mmØ holes directly opposite eachother in the window reveals to allow for bottom-hang inward opening school type window, refer to the Architects diagrams, details and specifications bound into the back of these bills of quantities and must be adhered to in all respects and all prices are to include all assembly, setting up, building in, etc.

58	Burglar bar to suit opening size 533 x 654mm	No	4		
59	Burglar bar to suit opening size size 899 x 457mm	No	2		
<u>HOT DIP GALVANISED STEEL POSTS</u>					
60	88.9mm x 3mm circular hollow galvanised steel set on concrete footings (footings elsewhere measured)	m	22		
<u>HOT DIP GALVANISED CHANNEL</u>					
61	140 x 60 x 15mm galvanised steel U channel fixed to walls with 10 x 140mm corrosion resistant expansion bolt at 600mm centres	m	7		

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HOT DIP GALVANISED STEEL GATES

62 Hot dip galvanised single gate size 877mm long x 2225mm high overall, formed of 50 x 30 x 2,5mm thick rectangular hollow section frame with 50 x 30 x 2,5mm thick rectangular hollow section middle rail and 38 x 38 x 2,5mm thick square hollow section tube Diamentergonal braces in between, all sections welded together, with 25 x 25 x 2mm thick square tube bolt frame with 12mm Diameter. x 85mm long bolt (bolt formed of 85mm long high tension solid round bar welded to 76 x 25 x 5mm plate with 14mm Diameter. drilled hole), including drilling hole size 18mm Diameter. through square tube gate frame for bolt opening, with and including three pin hinges (size 25mm Diameter. x 80mm long overall) with 15mm dia. x 30mm long pin and 25mm dia. sheath welded to gate and post

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Item No		Quantity	Rate	Amount R
	<u>BILL NO 9</u>			
	<u>PLASTERING</u>			
	<u>PREAMBLES</u>			
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
	<u>NOTE TO CONTRACTOR</u>			
	"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
	<u>SCREEDS</u>			
	<u>Screeds on concrete</u>			
63	50mm Thick on floors and landings	m ² 22		
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork</u>			
64	On walls	m ² 115		
65	In narrow widths not exceeding 300m wide	m ² 9		
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	PLASTERING			

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Item No		Quantity	Rate	Amount R
	<u>BILL NO 10</u>			
	<u>GLAZING</u>			
	<u>PREAMBLES</u>			
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
	<u>NOTE TO CONTRACTOR</u>			
	"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
	<u>TO STEEL WITH PUTTY</u>			
	<u>6.38mm thick laminated safety glass panels. All edges of the glazing panels to be treated and fully sealed with Betaseal to avoid delamination and penetrating stains.</u>			
66	Panes not exceeding 0,1m2.	m ²	2	
	<u>MIRRORS</u>			
67	Polished Stainless steel mirror (1 mm thick) Size: 400x300x1.0mm vertically above each basin 670mm above floor - screw fixed with countersunk stainless steel Philips screws on four corners. Rear surface of the mirror and plastic wall-plugs securely epoxy-glued to wall	No	2	
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	GLAZING			

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Item No			Quantity	Rate	Amount R
	BILL NO 11				
	<u>PAINTWORK</u>				
	<u>PREAMBLES</u>				
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplemetary preambles below.				
	<u>NOTE TO CONTRACTOR</u>				
	"Where trade preambles,supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail				
	<u>PAINTWORK, ETC TO NEW WORK ON</u>				
	<u>Apply two coats FLINKOTE applied on the Outer-face of the inner-skin brickwork as the work progresses</u>				
68	One brick collar bonded walls	m ²	143		
	<u>FLOATED PLASTER SURFACES WITH</u>				
	<u>One coat Dulux alkali resistant plaster primer and two coats Dulux Pearlgo Waterbased Enamel paint on</u>				
69	Internal walls	m ²	111		
70	Ceilings	m ²	22		
71	Ceilings and cornices	m ²	9		
72	Fascias and barge boards	m ²	4		
	<u>WOOD SURFACES WITH</u>				
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	<u>BILL NO 12</u>			
	<u>PROVISIONAL SUMS ETC</u>			
	<u>PREAMBLES</u>			
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
	<u>NOTE TO CONTRACTOR</u>			
	"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
	<u>TESTING</u>			
76	Making and testing 150 x 150 x 150mm concrete strength test cubes (Provisional)	No	15	
	<u>Prescribed density tests on filling</u>			
77	"Modified AASHTO Density" test	No	5	
78	"Field Density" test, including "Optimum Moisture Content" (four readings per test)	No	5	
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	PROVISIONAL AMOUNTS			

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	<u>Corobrik 14MPa Firelight Satin Imperial FBX standard clay face-brick, size 222x106x73mm, manufactured in accordance with SANS-227:2007. Bedded together with the internal skin in Class-I mortar (NO Chinese cement). All generally in stretcher-bond and to detail as shown with bonded with brickforce on every third course and two coats FLINTKOTE applied on the Outer-face of the inner-skin brickwork as the work progresses (Flintkote elsewhere measured). Pointed with square recessed horizontal and vertical joints, (5mm deep) All to brick scales: vertical; 4 bricks+4 joints = total 330m</u>				
4	Extra over ordinary brickwork for facing in stretcher bond and pointing.	m ²	33		
5	Face brick on edge window cill set sloping and slightly projecting on bottom edge in 1:5 cement mortar including cutting and fitting between reveals, fair splay cutting under and pointing on top, edge and projecting soffit (In No. 28)	m	4		
6	Face brick cut soldier course window head, formed with cant bricks 170mm high, bedded in 1:5 cement mortar including cutting and fitting between reveals and pointing on top and front face.	m	4		
7	Face brick soldier course band 160mm wide to top of one brick wall bedded in 1:5 cement mortar including pointing to sides and faces	m	9		
	<u>Brickwork reinforcement</u>				
8	75mm Wide reinforcement built in horizontally	m	40		
9	150mm Wide reinforcement built in horizontally	m	170		
	<u>Concrete prestressed fabricated lintels</u>				
10	110 x 75mm Lintels in lengths not exceeding 3m	m	13		
11	110 x 75mm Lintels in lengths not exceeding 3m n.e 4.5m	m	5		
	<u>Galvanised hoop iron cramps, ties, etc</u>				
12	30 x 1,6mm Cramp 500mm long with one end fixed to wood and other end built into brickwork	No	30		
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	MASONRY				

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13	<div>40 x 1,6mm "Tibond" wall tie strips shot pinned to pilaster and with ties bent out and built into brickwork</div>	No	12
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Item No		Quantity	Rate	Amount R
	<u>BILL NO 2</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
	<u>NOTE TO CONTRACTOR</u>			
	"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u>			
14	In walls	m ²	1	
	<u>One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
15	Under surface beds	m ²	29	
	<u>Pit Linings</u>			
	<u>One coat Sikafloor®-156 and three coats Sikagard®-63 N or other equally approved waterproofing wall system as approved by the Employer on</u>			
16	Walls	m ²	118	
	<u>SEALANTS ETC</u>			
17	Silicon pointing to aluminium windows	m	15	
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	WATERPROOFING			

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WATERPROOFING

Item No		Quantity	Rate	Amount R
<u>BILL NO 3</u>				
<u>ROOF COVERINGS ETC</u>				
<u>PREAMBLES</u>				
For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.				
<u>NOTE TO CONTRACTOR</u>				
"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<u>Safintra 0.50mm thick WIDEDEK AZ150 G550 interlocking roof sheeting fixed to 75 x 50mm SA pine purlins at 1200mm centres (purlins elsewhere measured) with 2 x galvanised hurricane clip screws fixed at each intersection to premanufactured gang nail type SA pine trusses (trusses elsewhere measured)</u>				
20	Roof coverings with pitches not exceeding 50 degrees	m ²	45	
21	0.5mm thick ridge capping	m	7	
22	0,5mm Thick cover flashing piece to roofing 375mm girth twice times bent, including notching over ribs	m	2	
23	Ditto but purpose made tile to end of ridge	No	3	
<u>ROOF AND WALL INSULATION</u>				
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24	<p><u>"Sisalation 420" heavy industrial grade aluminium foil based insulation</u></p> <p>Insulation laid taut over purlins (at approximately 1,80m centres) and fixed concurrent with roof covering, including taped laps and nylon straining wires</p>	m ²	45		
	<p style="text-align: right;">Carried to Abstract</p> <p>ABLUTION BLOCK 3 Bill No. 3 ROOF COVERINGS</p>			R	

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<u>BILL NO 4</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>PREAMBLES</u>			
For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
<u>NOTE TO CONTRACTOR</u>			
"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
<u>ROOFS, ETC</u>			
<u>Plate nailed timber roof truss construction</u>			
Timber roof truss prices are to include for the design, supply, wind category as per SANS 10160 and erection of the trusses into position complete including bolts, connectors, connections, etc. The dimensions of the trusses given in the following descriptions are nominal and the actual measurements for the design and manufacture of the trusses must be taken on site to match existing. The truss spans given are measured horizontally between the outer faces of the wall plates. Permanent bracing and runners have not been measured in accordance with the Standard System of Measuring Builder's Work and are measured as an item, the price of which is to include for the design, supply and fixing of necessary permanent bracing and runners.			
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	<u>Monoplaner Prefabricated Connector Plate Roof</u>				
	<u>Trusses at 1600mm maximum centres with a pitch of</u>				
	<u>25 Degrees and suitable for EVERITE Nutec Bigsix</u>				
	<u>corrugated roof sheeting or other equal approved</u>				
	<u>with 50 x 76mm purlins (elsewhere measured) at</u>				
	<u>1050mm centres and Gypsum plasterboard ceiling</u>				
	<u>(Gypsum plasterboard ceiling elsewhere measured)</u>				
	<u>with bracing at 450mm centres</u>				
25	Truss size 5 100mm span x 1100mm high with 450mm overhang on both sides	No	7		
	<u>Sawn softwood</u>				
26	38 x 114mm Wall plates	m	14		
27	38 x 114mm Bracing	m	89		
28	50 x 76mm Purlins, bolted	m	59		
	<u>Structural Timber</u>				
29	45 x 145mm treated pine beams	m	7		
	<u>Sundries</u>				
30	32 x 1,2mm Galvanised hoop iron roof tie 600mm girth with each end fixed to timber	No	14		
	<u>EAVES, VERGES, ETC</u>				
	<u>Marley white PVC Fascia boards ETC</u>				
31	Eaves soffit coverings 600mm wide of 4mm thick sheets, including 38 x 38mm sawn softwood bracing along edges, along centre and at 1,20m centres across sheets	m ²	9		
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ABLUTION BLOCK 3					
Bill No. 4					
CARPENTRY AND JOINERY					

**BILLS OF QUANTITIES
VUKAYIBAMBE SSS
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32	225 x 75 x 9mmmm Fascias and barge boards, fascia boards to be in long lengths fixed with two neatly spaced solid brass capped screws to 32x32mm timber cleats screwed to truss sprockets. Marley fascia connectors and end cover caps all strictly as per manufacturer's requirements and installation guides, barge boards to be in long lengths fixed with neatly spaced solid brass capped screws @ 800 centres to 32x44mm timber runner screwed to the undersides of the projecting purlins. Top cap of barge board fixed with galv. roofing screw through to roof sheeting in to purlins. Marley barge connectors and end cover caps all strictly as per manufacturer's requirements and installation guides.	m	14
<u>DOORS, ETC</u>			
<u>SABS 545 Solid core doors with vertical tongue and groove boarding on both sides and hardwood edging both vertical sides</u>			
33	44mm Door size 813 x 2032mm high	No	9
<u>FRAMED FRAMES, ETC</u>			
<u>Timber frames</u>			
34	108 x 44mm rebated timber door frames with 5 x 5 mm inner rebate and 14 x 14mm chamfered outward exposed edge for stiles and top frame securely retro fixed to walls	m	45
			R
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CARPENTRY AND JOINERY

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CARPENTRY AND JOINERY

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Item No		Quantity	Rate	Amount R
	<u>BILL NO 5</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
	<u>PREAMBLES</u>			
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
	<u>NOTE TO CONTRACTOR</u>			
	"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
	<u>NAILED UP CEILINGS</u>			
	<u>6,4mm Rhino gypsum plasterboard sheets with 63mm wide strips of wire scrim nailed over joints and at junction with walls, surface of ceiling finished smooth with Rhinolite plaster</u>			
35	Horizontal ceilings fixed with ivorieside downwards to and including 38 x 38mm sawn pine brandering at 400mm centres in one direction and behind all joints and with additional brandering at outer edges of rooms.	m ²	22	
	<u>Cornices</u>			
36	75mm Coved cornice.	m	28	
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	ABLUTION BLOCK 3			
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	CEILINGS ETC			

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Item No		Quantity	Rate	Amount R
	<u>BILL NO 6</u>			
	<u>IRONMONGERY</u>			
	<u>PREAMBLES</u>			
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
	<u>NOTE TO CONTRACTOR</u>			
	"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
	<u>HINGES, BOLTS, ETC</u>			
37	WBH B2451 100x75x3mm stainless steel washered butt hinges, supplied with s/steel fixing screws	Pairs	9.0	
	<u>LOCKS</u>			
	<u>"Union or other equally approved"</u>			
38	Lockset consisting of: One x pair WBH 2246 150mm anodized aluminium pull handles with bolt thru back-to-back furniture, and One x WBH B2148 cylinder dead doorlock - keyed alike for toilets entrance doors - with SC 25mm striker and supplied with two keys for each lock.	No	5	
39	Lockset consisting of: One x pair WBH 2246 150mm anodized aluminium pull handles with bolt thru back-to-back furniture, and One x WBH B2148 cylinder dead doorlock - keyed alike for toilets entrance doors - with SC 25mm striker and supplied with two keys for each lock.	No	1	
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	ABLUTION BLOCK 3 Bill No. 6 IRONMONGERY			

BILLS OF QUANTITIES
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40	BH B3631 satin chrome bathroom indicator bolt	No	3		
	<u>Hi Tech Stainless Steel Products Paraplegic Equipment: Grab Rail</u>				
41	600mm long straight grab rail code HT9 secured with Stainless steel screws as per manufacturers specifications and screw-plugs fixed with epoxy glue into walls.	No	1		
42	Cranked Grab Rail code HT24	No	1		
	<u>SUNDRIES</u>				
	<u>Toilet Roll Holder</u>				
43	Franke STR x 671L wall mounted lockable toilet roll holder including fixing screws and plastic wall plugs epoxy flued to wall	No	4		
	<u>Door Viewer</u>				
	<u>Hat and Coat Hook</u>				
44	WBH B3659 natural anodised Aluminium hat-&-coat hook	No	4		
45	WBH B2743 natural anodised Aluminium hat-&-coat hook - Fixed at 1300mm above floor.	No	1		
	<u>Door Closer</u>				
46	WBH B3659 door stop	No	9		
47	WBH B2392 wall-mounted rubber doorstop with screw-plug fixing epoxy glued to wall - mounte at handle height	No	1		
	<u>Door signs or numbers to be of an approved grey ultra high impact acrylic plastic construction plugged to wall or screwed to door with 15mm countersunk raised head chromium plated screws at each corner or hung from ceilings with two chromium plated chains</u>				
48	200 x 70 x 2.5mm Sign with 40mm high letters to centre of main door leaf 1850mm above ffl (Allow for 10 Letters)	No	5		
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BILLS OF QUANTITIES
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SIGNAGE

49	Pareplegic sign size 150mm x 150mm dorma	No	1
50	Female sign WBH 2314 size152x152mm with rounded corners and polished edges - white ABS plastic with black engraved International cloakroom door signage. 4xflush screwed and epoxy glued at 1500mm high and centre to each toilet entrance door.	No	1
51	Male sign WBH 2313 size152x152mm with rounded corners and polished edges - white ABS plastic with black engraved International cloakroom door signage. 4xflush screwed and epoxy glued at 1500mm high and centre to each toilet entrance door	No	1

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ABLUTION BLOCK 3
 Bill No. 6
 IRONMONGERY

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IRONMONGERY

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The following in hot dip galvanised after fabrication steel burglar bars SPECIFIC TO WINDOW opening size comprising of Two 600mm long x 10mm square galvanized steel bars slotted and epoxy glued into 10mmØ opposite holes in window reveals to top-hang fan lights – spaced 290 apart and aligned to the centre of the window OR Two 1500mm long x 10mm square galvanized steel bars with 245mm 90°cranked ends slotted and glued 65mm deep into holes in the predrilled 10mmØ holes directly opposite eachother in the window reveals to allow for bottom-hang inward opening school type window, refer to the Architects diagrams, details and specifications bound into the back of these bills of quantities and must be adhered to in all respects and all prices are to include all assembly, setting up, building in, etc.

54	Burglar bar to suit opening size 533 x 654mm	No	4		
55	Burglar bar to suit opening size size 899 x 457mm	No	2		
<u>HOT DIP GALVANISED STEEL POSTS</u>					
56	88.9mm x 3mm circular hollow galvanised steel set on concrete footings (footings elsewhere measured)	m	22		
<u>HOT DIP GALVANISED CHANNEL</u>					
57	140 x 60 x 15mm galvanised steel U channel fixed to walls with 10 x 140mm corrosion resistant expansion bolt at 600mm centres	m	7		

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ABLUTION BLOCK 3
Bill No. 7
METALWORK

HOT DIP GALVANISED STEEL GATES

58 Hot dip galvanised single gate size 877mm long x 2225mm high overall, formed of 50 x 30 x 2,5mm thick rectangular hollow section frame with 50 x 30 x 2,5mm thick rectangular hollow section middle rail and 38 x 38 x 2,5mm thick square hollow section tube Diame tergonal braces in between, all sections welded together, with 25 x 25 x 2mm thick square tube bolt frame with 12mm Diameter. x 85mm long bolt (bolt formed of 85mm long high tension solid round bar welded to 76 x 25 x 5mm plate with 14mm Diameter. drilled hole), including drilling hole size 18mm Diameter. through square tube gate frame for bolt opening, with and including three pin hinges (size 25mm Diameter. x 80mm long overall) with 15mm dia. x 30mm long pin and 25mm dia. sheath welded to gate and post

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METALWORK

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Item No		Quantity	Rate	Amount R
	<u>BILL NO 8</u>			
	<u>PLASTERING</u>			
	<u>PREAMBLES</u>			
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
	<u>NOTE TO CONTRACTOR</u>			
	"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
	<u>SCREEDS</u>			
	<u>Screeds on concrete</u>			
59	50mm Thick on floors and landings	m ² 22		
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork</u>			
60	On walls	m ² 115		
61	In narrow widths not exceeding 300m wide	m ² 9		
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	PLASTERING			

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Item No		Quantity	Rate	Amount R
	<u>BILL NO 9</u>			
	<u>GLAZING</u>			
	<u>PREAMBLES</u>			
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
	<u>NOTE TO CONTRACTOR</u>			
	"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
	<u>TO STEEL WITH PUTTY</u>			
	<u>6.38mm thick laminated safety glass panels. All edges of the glazing panels to be treated and fully sealed with Betaseal to avoid delamination and penetrating stains.</u>			
62	Panes not exceeding 0,1m2.	m ²	2	
	<u>MIRRORS</u>			
63	Polished Stainless steel mirror (1 mm thick) Size: 400x300x1.0mm vertically above each basin 670mm above floor - screw fixed with countersunk stainless steel Philips screws on four corners. Rear surface of the mirror and plastic wall-plugs securely epoxy-glued to wall	No	2	
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	GLAZING			

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Item No		Quantity	Rate	Amount R
	<u>BILL NO 10</u>			
	<u>PAINTWORK</u>			
	<u>PREAMBLES</u>			
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
	<u>NOTE TO CONTRACTOR</u>			
	"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
	<u>PAINTWORK, ETC TO NEW WORK ON</u>			
	<u>Apply two coats FLINTKOTE applied on the Outer-face of the inner-skin brickwork as the work progresses</u>			
64	One brick collar bonded walls	m²	143	
	<u>FLOATED PLASTER SURFACES WITH</u>			
	<u>One coat Dulux alkali resistant plaster primer and two coats Dulux Pearl glo Waterbased Enamel paint on</u>			
65	Internal walls	m²	111	
66	Ceilings	m²	22	
67	Ceilings and cornices	m²	9	
68	Fascias and barge boards	m²	4	
	<u>WOOD SURFACES WITH</u>			
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PAINTWORK

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PAINTWORK

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Item No		Quantity	Rate	Amount R
	<u>BILL NO 11</u>			
	<u>PROVISIONAL SUMS ETC</u>			
	<u>PREAMBLES</u>			
	For preambles the tenderer is referred to the "Model Specification of Materials and Methods to be used for Department of Roads and Public Works projects" (PW371, Rev July 2013 Part A and B) as well as to the "Model Preambles for Trades" (1998) and Supplementary preambles below.			
	<u>NOTE TO CONTRACTOR</u>			
	"Where trade preambles, supplementary preambles or PW 371 A and B are in conflict with the architects designs or specifications, the latter (Architects designs and specification) shall prevail			
	<u>TESTING</u>			
72	Making and testing 150 x 150 x 150mm concrete strength test cubes (Provisional)	No	15	
	<u>Prescribed density tests on filling</u>			
73	"Modified AASHTO Density" test	No	5	
74	"Field Density" test, including "Optimum Moisture Content" (four readings per test)	No	5	
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	PROVISIONAL AMOUNTS			

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3	ABLUTION BLOCK 1	74	
4	ABLUTION BLOCK 2	105	
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6	SOCIAL DELIVERABLES	136	
	ELECTRICAL WORK	Item	
	<u>MONETARY PROVISIONS</u>		
	<u>The following monetary provisions have been made in the contract and must be omitted from the contract sum at the start of the contract and used as directed below.</u>		
	<u>NOTE TO CONTRACTOR</u>		
	<u>These are monetary provisions only and the use, value and payment thereof are subject to adjustment based on actual costs through contractually approved variation orders and escalation costs calculated in terms of the prescribed contractual escalation calculations directives respectively.</u>		
	<u>Monetary Provision for Contingencies:</u>		
	Provide the sum of R135 000.00(One Hundred & Thirty-Five Thousand Rands Only), for Contingencies, to be adjusted, used and paid as instructed and approved by the Client in terms of clauses 17, 31 and 32 of the Principal Building Agreement(refer JBCC)		
			SUM
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**BILLS OF QUANTITIES
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Item No	Quantity	Rate	Amount R
<u>SECTION 7</u>			
<u>BILL NO 1</u>			
<u>ELECTRICAL WORK</u>			
<u>POWER SUPPLY AND RETICULATION FOR THE PREFABRICATED UNITS</u>			
NOTE: Tenderers are advised to study the specification before pricing the bill.			
<u>Complete installation including commissioning of new electrical installations: Reticulation; electrical, including provision of Certificates of Compliance (CoC)</u>			
<u>DISTRIBUTION BOARDS</u>			
<u>Distribution board complete with sheet-metal tray, frames, sub-frames, bus bars, provision for four future circuit breakers, legend card, circuit breakers, fuses, relay, volt-meter, ammeter, transformer, earth leakage unit, time switch, etc.The board is to be rewired in accordance with the SANS wiring code, a certificate of compliance is to be issued after the rewiring is completed.</u>			
1	Supply and installation of main-distribution as per the drawings and specifications	No 1	
<u>LUMINAIRES</u>			
2	1 - Lamp 36 W Standard fluorescent luminaire	No 8	
<u>Equipment provided in main distribution board</u>			
<u>Moulded Case Circuit Breakers</u>			
3	10 Ampere S.P. 5 kA	No 4	
4	20 Ampere S.P. 5 kA	No 3	
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ELECTRICAL RETICULATION			

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<u>Termination for bare and PVC insulated copper conductors including lugs and connections</u>							
14	10 mm ² Conductor	No	10				
15	35 mm ² Conductor	No	12				
<u>SLEEVES</u>							
<u>Unplasticised polyvinyl chloride (UPVC) sleeve piping including short lengths and jointing, laid in trench (trench backfilling measured elsewhere)</u>							
16	100mm Diameter pipe	m	53				
<u>Extra on UPVC piping for:</u>							
17	100mm Diameter long radius bend	No	2				
<u>EXCAVATIONS, ETC.</u>							
<u>Excavate in earth and set excavated material aside for re-use as filling for:</u>							
18	Cable or sleeve trenches not exceeding 1m deep	m ³	3				
19	Surplus material from the excavations spread and levelled over the site as directed	m ³	1				
<u>SUNDRIES</u>							
20	Cable warning tape placed 150mm above cables in excavations	m	30				
21	Concrete cable slabs placed 150mm above cables in excavations	m	5				
22	5mm x 300mm PVC interlocking protection sheet complete with warning signs	m	6				
23	Cable route markers	No	10				
24	Allow for cutting and fitting for switchgear supports and cutting of holes and making good chequered plates (chequered plates measured elsewhere)		Item				
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ELECTRICAL RETICULATION							
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ELECTRICAL RETICULATION							

BILLS OF QUANTITIES
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25	Test and commission the complete low tension installation	Item		
26	All notices and substation safety equipment as required by law	Item		
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ELECTRICAL RETICULATION				
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ELECTRICAL RETICULATION				

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	ADD: Value added Tax at 15%		R
	Sub Total		R
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