

7. Where modifications or amendments as described are made, such modifications and/or amendments shall supercede any conflicting provisions in the relevant clauses of the Standard Preliminaries or the Principal Building Agreement and the Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.

8. Where any item is not relevant to this specific contract, such item is marked N/A.

9. 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.

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SECTION A: PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

Definitions and interpretation (Clause 1).

1 F: V: T:

Item

OBJECTIVE AND PREPARATION

Offer, acceptance and performance (Clause 2).

2 F: V: T:

Item

Documents (Clause 3).

Clause 3.1 is deleted and substituted with: 'This tender is for a Government Contract. No Payment Guarantee will be provided.'

Clause 3.3 is deleted and substituted with:

The principal agent shall complete the schedule and arrange for formal signing of the agreement once the priced bill of quantities/lump sum document, security, insurances and waiver of lien, where acceptable, have been provided and effected'.

3 F: V: T:

Item

Design responsibility (Clause 4).

4 F: V: T:

Item

Employer's agents (Clause 5).

5 F: V: T:

Item

Site representative (Clause 6).

6 F: V: T:

Item

Compliance with regulations (Clause 7).

7 F: V: T:

Item

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| | Works risk (Clause 8) | | | |
| 8 | F: V: T: Indemnities (Clause 9). Clause 9.1.1 is deleted and substituted with: Claims from other parties consequent upon death of bodily injury or illness of any person or physical loss or damage to any property, other than the works, arising out or due to the execution of the works or occupation of the site by the contractor or his sub contractors'. | Item | | |
| 9 | F: V: T: Works insurances (Clause 10). | Item | | |
| 10 | F: V: T: Liability insurances (Clause 11). | Item | | |
| 11 | F: V: T: Effecting insurances (Clause 12). | Item | | |
| 12 | F: V: T: State Provisions (Clause 13). | Item | | |
| 13 | F: V: T: Security (Clause 14). | Item | | |
| 14 | F: V: T: <u>EXECUTION</u> Preparation for and execution of the works (Clause 15). | Item | | |
| 15 | F: V: T: Access to the works (Clause 16). | Item | | |
| 16 | F: V: T: Contract instructions (Clause 17). | Item | | |
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| 17 | F: V: T: Setting out of the works (Clause 18.3). 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. Should incorrect information be given to the contractor in terms of 18.1 and 18.2, which causes the incorrect setting out of the works, the contractor shall not be liable for such incorrect setting out. | Item | | |
| 18 | F: V: T: Assignment (Clause 19). | Item | | |
| 19 | F: V: T: Nominated subcontractors (Clause 20). | Item | | |
| 20 | F: V: T: Selected subcontractors (Clause 21). | Item | | |
| 21 | F: V: T: Employer's Direct contractors (Clause 22). | Item | | |
| 22 | F: V: T: Contractor's Domestic subcontractors (Clause 23). | Item | | |
| 23 | F: V: T: <u>COMPLETION</u> Practical completion (Clause 24). | Item | | |
| 24 | F: V: T: Works completion (Clause 25). | Item | | |
| 25 | F: V: T: Final completion (Clause 26). | Item | | |
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| | Latent defects liability period (Clause 27). | | |
| | Clause 27.0 is amended by the addition of the following clauses: | | |
| | "27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations". | | |
| | "27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accumulates in order to attend to a comprehensive list of defects" | | |
| 26 | F: V: T: Sectional completion (Clause 28). | Item | |
| 27 | F: V: T: Revision of date for practical completion (Clause 29). | Item | |
| 28 | F: V: T: Penalty for non-completion (Clause 30). | Item | |
| 29 | F: V: T: <u>PAYMENT</u> Interim payment to the contractor (Clause 31). The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.3 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank. | Item | |
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Where prices are submitted by the contractor or nominated/selected sub contractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing.

Adjustment to the contract value (Clause 32).

30 F: V: T:

Item

Recovery of expense and loss (Clause 33).

31 F: V: T:

Item

Final account and final payment (Clause 34).

32 F: V: T:

Item

Payment to other parties (Clause 35).

33 F: V: T:

Item

CANCELLATION

Cancellation by Employer - Contractor's default (Clause 36).

34 F: V: T:

Item

Cancellation by Employer - Loss and damage (Clause 37).

35 F: V: T:

Item

Cancellation by Contractor - Employer's default (Clause 38).

36 F: V: T:

Item

Cancellation - Cessation of the works (Clause 39).

37 F: V: T:

Item

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DISPUTE

Dispute Settlement (Clause 40)

38 F: V: T:

Item

SUBSTITUTE PROVISIONS

State Clauses (Clause 41)

39 F: V: T:

Item

CONTRACT VARIABLES

The Schedule: Pre-Tender information (Clause 42).

40 F: V: T:

Item

CONTRACTING AND OTHER PARTIES (Clause 42.1)

Employer: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East
London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East
London

Principal Agent: The Mvula Trust

Postal Address: 67 Devereux Avenue, Vincent, East
London

Telephone: 043 726 2255

Facsimile: 043 726 5967

Physical address: 67 Devereux Avenue, Vincent, East
London

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CONTRACT DETAILS (Clause 42.2)

Clause 42.2.1

Works Description: Construction of new ablution facilities.

Clause 42.2.2

Site Description: The site is the existing school.

Clause 42.2.3

Work or Installations by Others: NIL

Clause 42.2.4

This Agreement is for a State Contract :- Yes

Payment will be made for materials and goods:- Yes

Dispute resolution :- Mediation (in terms of clause 40) followed by litigation.

Arbitration rules as recommended by the Association of Arbitrators (SA) :- N/A

Clause 42.2.5

Date on which possession of the site is intended to be given on :-

To be advised.

Clause 42.2.6

Period for the commencement of the works after the contractor takes possession of the site :- 5 Working days.

Completion in Sections are required : NO

Clause 42.2.7

Intended date of practical completion and the penalty per calendar day for the works as a whole :-

To be advised.

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Penalty amount will be 5,75c/R100 of Contract Sum.

Clause 42.2.8

Intended dates of practical completion and the penalties per calendar day for the works in sections :

N/A

Clause 42.2.9

The law applicable to this agreement shall be that of - Republic of South Africa.

INSURANCES (Clause 42.3)

Clause 42.3.1

Contract works insurance to be effected by Contractor for the sum of: Contract Sum

With a deductible of : Not exceeding 5% of each and every claim.

Clause 42.3.2

Supplementary insurance is required : Yes

SASRIA insurance required to be effected by the Contractor for the amount of: Contract Sum plus 20% (with a deductible to be determined by the Insurance company issuing the policy).

Clause 42.3.3

Public liability insurance to be effected by Contractor

For the amount of: R 5million

With a deductible of: Not exceeding 5% of each and every claim.

DOCUMENTS (Clause 42.4)

Clause 42.4.1

Waiver of the contractor's lien is required :- YES

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Clause 42.4.2
Number of construction document copies to be supplied to the Contractor free of charge :- 1

Clause 42.4.3

Bills of Quantities drawn up in accordance with :-

Standard System of Measuring Building Work - Seventh Edition including all amendments

Clause 42.4.4

Number of days for submission of priced documents : 5 working days from the Letter of Appointment.

Clause 42.4.5

JBCC Engineering General Conditions are to be included in the documents :- No

Clause 42.4.6

The contract value is to be adjusted using CPAP:- NO

SECTION B: PRELIMINARIES

DEFINITIONS AND INTERPRETATION (B1)

Definitions and Interpretation (B1)

41 F: V: T:

Item

DOCUMENTS (B2)

Checking of documents (B2.1)

Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc.

42 F: V: T:

Item

Provisional Bills of Quantities (B2.2) YES

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| | Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, Provisional Quantities, etc., or loss of profit related thereto. | | |
| 43 | F: V: T: Availability of construction documentation (B2.3) | Item | |
| 44 | F: V: T: Interests of Agents (B2.4) | Item | |
| 45 | F: V: T: Priced documents (B2.5) | Item | |
| 46 | F: V: T: Tender submission (B2.6) Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders. | Item | |
| 47 | F: V: T: <u>THE SITE (B3)</u> 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. Workmen employed on the site are to be restricted to the immediate area of the site and access thereto. The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted. | Item | |
| 48 | F: V: T: | Item | |
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| | Geotechnical investigation (B3.2) | | | |
| | A desktop geotechnical report is available upon request. | | | |
| 49 | F: V: T: | Item | | |
| | Inspection of the Site (B3.3) | | | |
| 50 | F: V: T: | Item | | |
| | Existing premises occupied (B3.4) | | | |
| 51 | F: V: T: | Item | | |
| | Previous work - dimensional accuracy (B3.5) | | | |
| 52 | F: V: T: | Item | | |
| | Previous work - defects (B3.6) | | | |
| 53 | F: V: T: | Item | | |
| | Services - known (B3.7) | | | |
| 54 | F: V: T: | Item | | |
| | Services - unknown (B3.8) | | | |
| 55 | F: V: T: | Item | | |
| | Protection of trees (B3.9) | | | |
| 56 | F: V: T: | Item | | |
| | Articles of value (B3.10) | | | |
| 57 | F: V: T: | Item | | |
| | Inspection of adjoining properties (B3.11) | | | |
| 58 | F: V: T: | Item | | |
| | <u>MANAGEMENT OF CONTRACT (B4)</u> | | | |
| | Management of the Works (B4.1) | | | |
| 59 | F: V: T: | Item | | |
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| | Programme for the Works (B4.2) | | | |
| 60 | F: V: T: | Item | | |
| | Progress meetings (B4.3) | | | |
| 61 | F: V: T: | Item | | |
| | Technical meetings (B4.4) | | | |
| 62 | F: V: T: | Item | | |
| | <u>SAMPLES AND SHOP DRAWINGS (B5)</u> | | | |
| | Samples of materials (B5.1) | | | |
| 63 | F: V: T: | Item | | |
| | Workmanship samples (B5.2) | | | |
| 64 | F: V: T: | Item | | |
| | Shop drawings (B5.3) | | | |
| 65 | F: V: T: | Item | | |
| | <u>TEMPORARY WORKS AND PLANT (B6)</u> | | | |
| | Deposits and fees (B6.1) | | | |
| 66 | F: V: T: | Item | | |
| | Enclosure of the works (B6.2) | | | |
| | The contractor shall erect, maintain and remove at completion, hoardings, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others. | | | |
| 67 | F: V: T: | Item | | |
| | Advertising (B6.3) | | | |
| 68 | F: V: T: | Item | | |
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| | Plant and equipment (B6.4) | | |
| 69 | F: V: T: Main notice board (B6.5) One notice board shall be provided by the Contractor | Item | |
| 70 | F: V: T: Subcontractors notice board (B6.6) (N/A) | Item | |
| 71 | F: V: T: <u>TEMPORARY SERVICES (B7)</u> Location (B7.1) | | |
| 72 | F: V: T: Water (B7.2) The contractor shall provide water for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor). | Item | |
| 73 | F: V: T: Electricity (B7.3) The contractor shall provide electricity for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor). | Item | |
| 74 | F: V: T: Telecommunication equipment (B7.4) The contractor shall provide telephones on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor). | Item | |
| 75 | F: V: T: | Item | |
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| | Ablution facilities (B7.5) | | |
| | The contractor shall provide toilet facilities on site for the works in accordance with: | | |
| | Alternative A (i.e. to be provided for by the Contractor). | | |
| 76 | F: V: T: | Item | |
| | <u>PRIME COST AMOUNTS (B8)</u> | | |
| | Responsibility for prime cost amounts (B8.1) | | |
| 77 | F: V: T: | Item | |
| | <u>ATTENDANCE ON N/S SUBCONTRACTORS (B9)</u> | | |
| | General Attendance (B9.1) | | |
| 78 | F: V: T: | Item | |
| | Special Attendance (B9.2) | | |
| 79 | F: V: T: | Item | |
| | Commissioning - fuel, water and power (B9.3) | | |
| 80 | F: V: T: | Item | |
| | <u>FINANCIAL ASPECTS (B10)</u> | | |
| | Statutory taxes, duties and levies (B10.1) | | |
| | Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT). | | |
| 81 | F: V: T: | Item | |
| | Payment of Preliminaries (B10.2) | | |
| 82 | F: V: T: | Item | |
| | Adjustment of Preliminaries (B10.3) | | |
| 83 | F: V: T: | Item | |
| | Payment certificate cash flow (B10.4) | | |
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| 84 | F: V: T: Contractor information supply (B10.5) | Item | | |
| 85 | F: V: T: <u>GENERAL (B11)</u> Protection of the Works (B11.1) | Item | | |
| 86 | F: V: T: Protection/isolation of existing/sectionally occupied works (B11.2) | Item | | |
| 87 | F: V: T: Site security (B11.3) | Item | | |
| 88 | F: V: T: Notice before covering work (B11.4) | Item | | |
| 89 | F: V: T: Disturbance (B11.5) | Item | | |
| 90 | F: V: T: Works cleaning and clearing (B11.6) | Item | | |
| 91 | F: V: T: Vermin (B11.7) | Item | | |
| 92 | F: V: T: Overhand work (B11.8) | Item | | |
| 93 | F: V: T: | Item | | |
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SECTION C: SPECIFIC PRELIMINARIES

Section C: Specific Preliminaries:

C1. 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 manufacturer's instructions after consultation with the manufacturer's authorised representative.

94 F: V: T:

Item

C2. Trade Names, etc.

All materials, fittings, finishings, etc., specified hereinafter under a trade name, catalogue number or reference, must be exactly as described. The Architect's approval in writing must be obtained for the use of any alternative to the specification before the submission of tenders otherwise the specified materials, fittings, finishings, etc., will be assumed to have been allowed for in the tender.

The Contractor must take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.

95 F: V: T:

Item

C3. Contractors responsibility

The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The Contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved.

96 F: V: T:

Item

C4. Overtime

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Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.

97 F: V: T:

Item

C5. 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.

Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.

98 F: V: T:

Item

C6. Construction Instructions

Contract 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. The Contractor shall supply and have available at the site of the works at all times, the following site books:

a) Construction Instruction Book:

Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book.

Only instructions issued in such book shall be recognised.

b) Daily Record Book:

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| | <p>The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.</p> | | | |
| 99 | <p>F: V: T:</p> <p>C7. 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> | Item | | |
| 100 | <p>F: V: T:</p> <p>C8. 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> | Item | | |
| 101 | <p>F: V: T:</p> <p>C9. Encroachment</p> <p>During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor.</p> | Item | | |
| 102 | <p>F: V: T:</p> <p>C10. Method Statement</p> | Item | | |
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|---|--|------|---|--|
| | <p>The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.</p> | | | |
| 103 | <p>F: V: T:</p> <p>C11. Unauthorised Persons/Workmen on Premises</p> <p>The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect.</p> <p>No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.</p> | Item | | |
| 104 | <p>F: V: T:</p> <p>C12. Mode of Procedure</p> <p>Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited.</p> <p>Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost.</p> | Item | | |
| 105 | <p>F: V: T:</p> | Item | | |
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|---|---|------|---|--|
| | <p>C13. Location of Temporary Buildings and Temporary Services</p> <p>The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period.</p> <p>There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith.</p> | | | |
| 106 | <p>F: V: T:</p> <p><u>C14. Office accommodation</u></p> <p>The contractor shall provide, maintain and remove on practical completion air conditioned lockable office accommodation (minimum 4m x 3m) with concrete floor, minimum 2 windows, suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]</p> | Item | | |
| 107 | <p>F: V: T:</p> <p><u>C15. Storage Facilities</u></p> | Item | | |
| 108 | <p>The Contractor shall provide a lockable Container or Structure for storage of materials. The facility shall have a concrete or steel floor.</p> | Item | | |
| 109 | <p>F: V: T:</p> <p>C16. Removal and Making Good of Temporary Works, etc, on Completion</p> <p>The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.</p> | Item | | |
| 110 | <p>F: V: T:</p> | Item | | |
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OCCUPATIONAL HEALTH AND SAFETY

General:

| | | | |
|----|--|----|------|
| 1 | Notify the provincial director in writing of the commencement of construction work with and including submission of a letter of receipt and acknowledgement of the aforementioned notice by the director or his/ her representative. | | Item |
| 2 | Preparation of Contractor's site specific Health and Safety Plan. | | Item |
| 3 | Submission of the Health and Safety File. | | Item |
| 4 | Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations. | | Item |
| 5 | Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period. | | Item |
| 6 | Provision of full time Health and Safety Officer for the entire construction period. | | Item |
| 7 | Induction training of personnel. | No | 5 |
| 8 | Provision of first aid boxes. | No | 1 |
| 9 | SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a 80% knitted HDPE monofilament green shed netting fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc | m | 231 |
| 10 | Cut into existing barrier fence and provide double vehicle access gate size 3800 x 1800mm high, including providing gate posts, locking chains etc, and the removal of gate on completion. (Contractor to visit site in order to fully assess the total cost implication for pricing purposes) | No | 1 |
| 11 | Extra over mesh fence for pedestrian gate size 1.2 x 1,8m high. | No | 1 |
| 12 | Extra over mesh fence for pedestrian gate size 5 x 1,8m high. | No | 1 |

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Health and Safety

| | | | | |
|--|--|------|---|--|
| 13 | Temporary warning signs and symbols. | Item | | |
| <u>Provision for Personal Protective Equipment and Protective Clothing:</u> | | | | |
| 14 | Reflective vests. | Item | | |
| 15 | Hard hats. | Item | | |
| 16 | Protective foot wear. | Item | | |
| 17 | Ear Plugs. | Item | | |
| 18 | Dust Masks. | Item | | |
| <u>Costs of Medical Certificates and Medical Surveillance:</u> | | | | |
| 19 | Initial (baseline) medical examinations. | Item | | |
| 20 | Exit Examinations. | Item | | |
| <u>Noise Monitoring:</u> | | | | |
| 21 | Establishment of noise zones. | Item | | |
| 22 | Audiograms. | Item | | |
| <u>C16. Covid-19 Compliance Measures</u> | | | | |
| 23 | The Contractor is required to price for Covid 19 compliance and the pricing thereof shall be deemed to include all the mandatory requirements. | Item | | |
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| | <u>SECTION No. 3</u> | | | |
| | <u>BILL No. 1</u> | | | |
| | <u>ALTERATIONS, DEMOLITIONS, ETC.</u> | | | |
| | <u>Note:</u> | | | |
| | For Preambles see "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). | | | |
| | <u>DEMOLITIONS</u> | | | |
| | <u>Ordinary demolitions</u> | | | |
| | Reference hereunder to cart away shall mean carting off site to a dumping site to be located by the Contractor. | | | |
| | <u>REMOVAL OF EXISTING WORK</u> | | | |
| 1 | Allow for watering the works to prevent any nuisance from dust, etc. and supply, erect and remove on completion all temporary dust screens, etc. required. | Item | | |
| 2 | Allow for protecting all existing work liable to suffer damage (i.e. Walls, finishes, floors, windows, etc.) from damage during the building operations, alterations, etc., and make good all work damaged with new material to match existing to the approval of the director. | Item | | |
| | <u>Breaking up and removing unreinforced concrete</u> | | | |
| 3 | 100mm Thick surface beds. | m2 | 183 | |
| 4 | 100mm Thick concrete channels. | m | 100 | |
| 5 | Remove concrete ramp with brickwork on the sides overall size 8 x 1.5 x 1mm high, including foundations complete. | No | 2 | |
| 6 | Remove existing steps with 3 risers and 3 threads, overall size 950 x 400mm high and make good to receive new stairs (elsewhere measured). | No | | |
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Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc

| | | | | | |
|---|-------------------------------|----|----|--|--|
| 7 | 40mm Granolithic from floors. | m2 | 71 | | |
|---|-------------------------------|----|----|--|--|

CARPENTRY AND JOINERY

Timber/ steel doors and frames

| | | | | | |
|---|---|----|---|--|--|
| 8 | Take out from one brick wall and cart away single timber door and frame size 813mm wide x 1200mm high including preparing reveals to receive new frame (elsewhere). | No | 3 | | |
|---|---|----|---|--|--|

| | | | | | |
|---|---|----|--|--|--|
| 9 | Take out from one brick wall and cart away single timber door and frame size 900mm wide x 2100mm high including preparing reveals to receive new frame (elsewhere). | No | | | |
|---|---|----|--|--|--|

| | | | | | |
|----|---|----|----|--|--|
| 10 | Take out and remove steel pivot door covered on one side with 0,6mm galvanised sheeting complete. | No | 11 | | |
|----|---|----|----|--|--|

| | | | | | |
|----|---|---|---|--|--|
| 11 | Take out and remove single steel door complete. | m | 2 | | |
|----|---|---|---|--|--|

| | | | | | |
|----|--|----|---|--|--|
| 12 | Take out and remove steel single gate complete and make good area to receive new gate (new gate elsewhere measured). | No | 6 | | |
|----|--|----|---|--|--|

| | | | | | |
|----|--|---|----|--|--|
| 13 | Take and set aside for later re-use timber beam size 50 x 228mm. | m | 22 | | |
|----|--|---|----|--|--|

Skirting

| | | | | | |
|----|--|---|--|--|--|
| 14 | Take down and cart away timber skirting. | m | | | |
|----|--|---|--|--|--|

Externally

| | | | | | |
|----|--|---|---|--|--|
| 15 | Take down and cart away 20 x 220mm timber/fibre cement fascia board. | m | 5 | | |
|----|--|---|---|--|--|

| | | | | | |
|----|--|---|---|--|--|
| 16 | Take down and cart away 20 x 220mm timber/fibre cement bargeboard. | m | 5 | | |
|----|--|---|---|--|--|

CEILINGS AND PARTITIONS

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| | | | | |
|----|--|----|----|--|
| | <u>Internally</u> | | | |
| 17 | Take down and cart away fibre cement ceilings approximately 2800mm from ground level including all cornices, bandering, supporting structures, etc. | m2 | | |
| 18 | Take down and cart away gypsum coved cornice. | m | | |
| | <u>FLOOR COVERINGS</u> | | | |
| 19 | Strip from concrete floors vinyl floor tiling and cart away including preparing screed for new floor covering (elsewhere). | m2 | | |
| | <u>IRONMONGERY</u> | | | |
| | <u>General ironmongery</u> | | | |
| 20 | Take out from steel door and cart away, cylinder or mortice lockset. | No | | |
| 21 | Take off from steel door and cart away, lever furniture set. | No | | |
| 22 | Take out and remove damaged toilet roll holders. | No | 13 | |
| | <u>METALWORK</u> | | | |
| | <u>Windows and burglar screens</u> | | | |
| 23 | Take out from brickwork and cart away, glazed steel window frame size 600 x 600mm high including glazing. | No | | |
| | <u>Taking out and removing glass and mirrors:</u> | | | |
| 24 | Glass from steel windows including cleaning out rebates and preparing for new glass. | m2 | 2 | |
| | <u>PLUMBING AND DRAINAGE</u> | | | |
| | <u>Piping, fittings, etc.</u> | | | |
| 25 | Take off from walls, ceilings, etc. and cart away copper/polycrop water supply piping, fittings, valves, etc. of various diameters including temporary stopping of supply where necessary. | m | | |
| 26 | Take off from walls, ceilings, etc. and cart away PVC waste water piping and fittings of various diameters. | m | | |
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|------------------------------|--|----|----|--|--|
| <u>Sanitaryware</u> | | | | | |
| 27 | Demolish and cart away white glazed WC cistern including stopping off water supply. | No | | | |
| 28 | Take out and remove VIP200 plastic toilet pedestal. | No | 5 | | |
| 29 | Take out and remove plastic urinal from brickwork and make good area to receive new urinal (new urinal elsewhere measured). | No | 1 | | |
| 30 | Take out and remove stainless steel urinal size 1800mm long from brickwork and make good area to receive new stainless steel urinal (new urinal elsewhere measured). | No | 2 | | |
| 31 | Demolish and cart away white glazed WC pan and cistern complete including stopping off water supply. | No | | | |
| 32 | Take out and remove Atlas Plastics Christy 382AP Basin including stopping off water supply. | No | 12 | | |
| <u>Sundries</u> | | | | | |
| 33 | Take down and cart away toilet roll holders. | No | | | |
| <u>PLASTERING</u> | | | | | |
| <u>Floors</u> | | | | | |
| 34 | Hack up 25mm thick granolithic or floor screed and cart away including preparing surface bed to receive new screed (elsewhere). | m2 | | | |
| <u>Walls</u> | | | | | |
| 35 | Hack off plaster from brick wall and cart away including preparing to receive new plaster (elsewhere). | m2 | | | |
| <u>Ceilings</u> | | | | | |
| 36 | Hack off plaster from concrete soffit and cart away including preparing to receive new plaster (elsewhere). | m2 | | | |
| <u>GLAZING</u> | | | | | |
| 37 | Take out 4mm thick glass from galvanised steel window including preparing frame to receive new glass (elsewhere). | m2 | | | |
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| <u>REFURBISHMENT, PREPARATORY WORKS, ETC.</u> | | | |
|---|----|---|--|
| <u>Sundry brickwork refurbishment</u> | | | |
| Replace broken brick in existing face brick wall with matching brick bedded, jointed and pointed in cement mortar to match existing. | No | | |
| <u>General repair work</u> | | | |
| Hack plaster from brickwork for a width of 100mm either side of crack, nail galvanised stretch plate over crack with steel nails at 200mm centres to receive plaster (elsewhere). | m | | |
| <u>METAL WORK</u> | | | |
| <u>Servicing of windows, doors, etc.</u> | | | |
| Service window, size approximately 600 x 600mm high with top hung opening out light including ensuring smooth opening and closing and replacement of missing stays, catches, etc. as necessary to match existing. | No | | |
| Service window, size approximately 600 x 600mm high with centre pivot light including ensuring smooth opening and closing and replacement of missing stays, catches, etc. as necessary to match existing. | No | | |
| <u>Refurbishment by cleaning</u> | | | |
| <u>Walls, concrete columns, tiling, etc.</u> | | | |
| High pressure clean external face brick facade to remove dirt, lichen, moss, etc. complete including recess pointing and jointing in cement mortar, where necessary, to match existing. | m2 | | |
| <u>MAKING GOOD OF FINISHES, ETC.</u> | | | |
| <u>Making good internal cement plaster:</u> | | | |
| Walls in patches 75mm wide with and including "Menlath 213" galvanised "Mentex" plaster mesh fixed to concrete or brickwork. | m2 | | |
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|----|--|----|------|--|
| | <u>Making good external cement plaster:</u> | | | |
| 44 | Walls in patches 75mm wide with and including "Menlath 213" galvanised "Mentex" plaster mesh fixed to concrete or brickwork. | m2 | | |
| | <u>Servicing of existing windows:</u> | | | |
| 45 | Steel window 450 x 600mm high, including replacing defective and lacking ironmongery. | No | 1 | |
| 46 | Steel window 500 x 600mm high, including replacing defective and lacking ironmongery. | No | 20 | |
| 47 | Steel window 1000 x 600mm high with one side hung opening sashes, including replacing defective and lacking ironmongery. | No | 7 | |
| | <u>CUTTING THROUGH FLOORS AND CEILINGS</u> | | | |
| | <u>Re-sizing Existing Holes Through 170mm Reinforced Concrete Slabs</u> | | | |
| 48 | Re-size the existing 250mm cubicle hole to suit VIP450, making good all the sides including protection of reinforcement by using approved SIKA product or similar approved materials to the approval of the Engineer. | No | 5 | |
| | <u>SUNDRIES</u> | | | |
| | <u>Desludging</u> | | | |
| 49 | Clean out pit latrine by desludging including removal of all debris and waste including solid waste as per Health and Safety requirements and make good on completion including disposing of all debris and waste at an authorised municipal waste disposal facility. Contractor to price per seat | No | 13 | |
| 50 | Issue of Certificate of Waste Disposal. | | Item | |
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Alterations (Provisional)

Waterproofing

Complete pit sealing/waterproofing from seepage due to underground water ingress as result of high water table, perched water tables etc

Contractor to provide water proofing product that will be 100% resistant to extreme hydrostatic pressure at depth of 2m, from the positive (water from inside) of substrate. Resistant to aggressive chemicals i.e oil, salt water, sewage, weak acids and aggressive sulphate soils. The product must be able to withstand backfilling without protection and must not be subject to deterioration. The product must be able to ensure that the pit structure is fully sealed (100% free from water ingress from outside and it will not penetrate the pit).

The product and its methodology for application must be approved by Principal Agent before it is used.

It is a mandatory requirement for the Contractor to attend training to be provided by Supplier. Proof of attendance will be required prior to application of the approved waterproofing product.

Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent or Engineer. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the waterproofing product is intended to be done.

Contractor to provide a Letter of Compliance confirming that waterproofing has been applied as per Manufacturer's instructions and data sheet.

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Waterproofing

DAMPPROOFING OF WALLS AND FLOORS

FLASHING STRIPS

Elastic acrylic and rubberised bitumen compound with "waterproof membrane" applied in strict accordance with the Manufacturer's instructions :

| | | | |
|---|---|----|----|
| 1 | Flashing strips around 110mm diameter PVC vent pipes through steel roof sheeting. | No | 17 |
| | 2B : 0 A0 : 4 A2 : 4 A3 : 2 | | |
| | A4 : 7 | | |

JOINT SEALANTS ETC

Clear Neutral silicone sealant:

| | | | |
|---|--|---|----|
| 2 | In joint sealing and pointing all round external window and door frames. | m | 89 |
| | 2B : 0 A0 : 23 A2 : 10 A3 : 19 | | |
| | A4 : 37 | | |

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Waterproofing

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Waterproofing

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CARPENTRY

Sawn softwood:

| | | | |
|---|---|---|----|
| 1 | 50 x 76mm Purlins as barge board support. | m | 34 |
| | 2B : 0 A0 : 8 A2 : 8 A3 : 8 A4 : 8 | | |
| 2 | 50 x 76mm Bracing. | m | 23 |
| | 2B : 0 A0 : 6 A2 : 4 A3 : 5 A4 : 8 | | |
| 3 | 38 x 152mm Rafters (closing beam filling). | m | 43 |
| | 2B : 0 A0 : 7 A2 : 10 A3 : 12 A4 : 14 | | |

Sundries:

| | | | |
|---|--|----|-----|
| 4 | TRI FIX or equal approved hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional). | No | 400 |
| | 2B : 400 A0 : 0 A2 : 0 A3 : 0 A4 : 0 | | |

EAVES, VERGES, ETC

Work to existing fascia/barge boards

| | | | |
|---|--|---|----|
| 5 | Check fibre cement fascia boards complete, including joining strips, for alignment/rigidity and where necessary replace missing screws or joining strips to existing members to leave fascia boards secure to rafters. | m | 43 |
| | 2B : 0 A0 : 7 A2 : 10 A3 : 12 A4 : 14 | | |
| 6 | Check fibre cement barge boards complete, including joining strips, for alignment/rigidity and where necessary replace missing screws or joining strips to existing members to leave fascia boards secure to rafters. | m | 34 |
| | 2B : 0 A0 : 8 A2 : 8 A3 : 8 A4 : 8 | | |

"Everite Nutec" or equal approved fibre cement

| | | | |
|---|---|---|---|
| 7 | 12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc. | m | 5 |
| | 2B : 0 A0 : 0 A2 : 5 A3 : 0 A4 : 0 | | |

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|--------------------------------------|--|----|----|--|--|
| 8 | 85 x 275 x 6mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes, etc. 2B : 0 A0 : 0 A2 : 10 A3 : 0 A4 : 0 | m | 10 | | |
| <u>DOORS ETC</u> | | | | | |
| <u>SANS Approved meranti:</u> | | | | | |
| 9 | 44mm Framed, ledged, and battened single door with flush ply panel internally size 813 x 2032mm high comprising 44 x 110mm top rail and stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D1). 2B : 0 A0 : 2 A2 : 1 A3 : 2 A4 : 1 | No | 6 | | |
| 10 | 44mm Framed, ledged, and battened single door with flush ply panel internally size 950 x 2032mm high comprising 44 x 110mm top rail and stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D2). 2B : 0 A0 : 0 A2 : 1 A3 : 0 A4 : 1 | No | 2 | | |
| 11 | 44mm Framed, ledged, and battened purpose made single door with flush ply panel internally size 813 x 1832mm high comprising 44 x 110mm stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D4). 2B : 0 A0 : 3 A2 : 0 A3 : 2 A4 : 6 | No | 11 | | |
| 12 | 44mm Framed, ledged, and battened purpose made single door with flush ply panel internally size 862 x 1000mm high comprising 44 x 110mm stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D3). 2B : 0 A0 : 0 A2 : 3 A3 : 0 A4 : 0 | No | 3 | | |

FRAMED FRAMES, ETC

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Carpentry and Joinery

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Ironmongery

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Fixing

Fixing of ironmongery is deemed to be fixed to timber unless otherwise described

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Section 2
Bill No. 4
Ironmongery

HINGES:

| | | | | | |
|---|--|-------|------|--|--|
| 1 | 75 x 100mm Brass Medium duty ball bearing HMP butt hinges. | Pairs | 22.0 | | |
| | 2B : 0.0 A0 : 5.0 A2 : 5.0 A3 : 4.0 | | | | |
| | A4 : 8.0 | | | | |

LOCKS

| | | | | | |
|---|---|----|----|--|--|
| 2 | "UNION 2277-78SS" or equal approved three lever sash mortice lockset. | No | 11 | | |
| | 2B : 0 A0 : 2 A2 : 5 A3 : 2 | | | | |
| | A4 : 2 | | | | |

| | | | | | |
|---|---|----|----|--|--|
| 3 | "UNION w/c indicator bolt satin chrome - Code CZ80941SC | No | 11 | | |
| | 2B : 0 A0 : 3 A2 : 0 A3 : 2 | | | | |
| | A4 : 6 | | | | |

HANDLES

| | | | | | |
|---|---|----|----|--|--|
| 4 | "Dorma DPH301B" or equal approved Stainless Steel Straight Tubular Pull handle flange fixing. | No | 22 | | |
| | 2B : 0 A0 : 5 A2 : 5 A3 : 4 | | | | |
| | A4 : 8 | | | | |

Sundries:

| | | | | | |
|---|---|----|----|--|--|
| 5 | Stainless Steel Hat and coat hook, code DHC - SS-030-A or equal approved. | No | 11 | | |
| | 2B : 0 A0 : 3 A2 : 0 A3 : 2 | | | | |
| | A4 : 6 | | | | |

| | | | | | |
|---|---|----|----|--|--|
| 6 | 38mm Diameter black rubber door stop plugged and screwed to wall. | No | 22 | | |
| | 2B : 0 A0 : 5 A2 : 5 A3 : 4 | | | | |
| | A4 : 8 | | | | |

SIGN PLATES:

All sign plates are to be with engraved blue perspex all in accordance with the standard sign plates for Schools.

| | | | | | |
|---|--|----|----|--|--|
| 7 | Sign plate plugged and screwed to walls with chromium plated dome headed screws. | No | 11 | | |
| | 2B : 0 A0 : 2 A2 : 5 A3 : 2 | | | | |
| | A4 : 2 | | | | |

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Section 2
Bill No. 4
Ironmongery

R

SUNDRIES

Halcast or equal approved"

| | | | | | |
|---|--|----|----|--|--|
| 8 | Thiefproof toilet roll holder plugged. 2B : 0 A0 : 3 A2 : 4 A3 : 2 A4 : 7 | No | 16 | | |
|---|--|----|----|--|--|

Grade 304 stainless steel ware:

| | | | | | |
|---|--|----|---|--|--|
| 9 | 32mm outside diameter x 1,6mm thick tubular wall mounted side stainless steel grab rail 1,06m girth with two 45 degree and two 90 degree formed bends and each end fitted with 80mm diameter x 5mm thick flange welded on and four times countersunk holed for and plugged and screwed to wall with stainless steel crews. 2B : 0 A0 : 0 A2 : 1 A3 : 0 A4 : 1 | No | 2 | | |
|---|--|----|---|--|--|

| | | | | | |
|----|---|----|---|--|--|
| 10 | 32mm outside diameter x 1,6mm thick tubular wall mounted around cistern back stainless steel grab rail 1,23m girth with two 90 degree formed bends and each end fitted with 80mm diameter x 5mm thick flange welded on and four times countersunk holed for and plugged and screwed to wall with stainless steel crews. 2B : 0 A0 : 0 A2 : 1 A3 : 0 A4 : 1 | No | 2 | | |
|----|---|----|---|--|--|

Satin Grey Plastics or equal approved

| | | | | | |
|----|---|----|----|--|--|
| 11 | "Satin plastic N-SBIN-12-SA SHE Bin size 463 x 140 x 480mm, floor standing loose. 2B : 0 A0 : 2 A2 : 1 A3 : 0 A4 : 7 | No | 10 | | |
|----|---|----|----|--|--|

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Ironmongery

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Ironmongery

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Ironmongery

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Section 2
Bill No. 5
Metalwork

Security Gate consisting of 25 x 25 x 2mm galvanised mild steel frame with 12mm galvanised mild steel square bars infill placed at 109mm centres, hung with one pair of galvanised mild steel hinges including locks, handles, ironmongery complete and fixed to brickwork:

| | | | | |
|---|--|----|---|--|
| 1 | Security gate size 900 x 2050mm high (G1). | No | 5 | |
| | 2B : 0 A0 : 2 A2 : 0 A3 : 2 | | | |
| | A4 : 1 | | | |

| | | | | |
|---|---|----|---|--|
| 2 | Security gate size 1200 x 2050mm high (G2). | No | 2 | |
| | 2B : 0 A0 : 0 A2 : 1 A3 : 0 | | | |
| | A4 : 1 | | | |

MANHOLE COVERS LOCKING MECHANISMS

| | | | | |
|---|--|----|---|--|
| 3 | Provide locking mechanism fro existing man hole covers comprising of 50 x 50 x 6mm galvanised angle iron, bolted to existing concrete with brackets between manhole covers to secure covers, including provision of 4 pad locks. The locking mechanism is 4.5m long with 5 brackets. | No | 4 | |
| | 2B : 4 A0 : 0 A2 : 0 A3 : 0 | | | |
| | A4 : 0 | | | |

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Bill No. 5
Metalwork

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Bill No. 5

Metalwork

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Section 2

Bill No. 5

Metalwork

15mm thick of 1:4 sand cement plaster with Coprox masonry waterproofing or equal approved waterproof cement additive. Add 2.5kg Coprox waterproof cement additive for every 50kg of cement used in plaster mix

| | | | | | |
|---|---|----|----|--|--|
| 2 | On walls. | m2 | 5 | | |
| | 2B : 5 A0 : 0 A2 : 0 A3 : 0 | | | | |
| | A4 : 0 | | | | |
| 3 | Walls in patching. | m2 | 10 | | |
| | 2B : 10 A0 : 0 A2 : 0 A3 : 0 | | | | |
| | A4 : 0 | | | | |

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Bill No. 6
Plastering

Section 2

Bill No. 6

Plastering

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Section 2

Bill No. 6

Plastering

| Item No | | Quantity | Rate | Amount |
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| | <p><u>SECTION 3</u></p> <p><u>BILL No. 7</u></p> <p><u>PLUMBING AND DRAINAGE</u> <u>(PROVISIONAL)</u></p> <p><u>Quantity Split:</u></p> <p>Note that the total quantity per each item is split into the various buildings and appears below each description as follows:</p> <p>[A0] DWG 02 – Staff Ablutions</p> <p>[A1] DWG 05 - Staff Ablutions</p> <p>[A2] DWG 07- Grade R Ablutions</p> <p>[A3] DWG 08 - Grade R Ablutions</p> <p>[A4] DWG 16 - Female Learner (Intermediate) Ablutions</p> <p>[A5] DWG 23 - Male Learner (Intermediate) Ablutions</p> <p>[A6] DWG 33 - Male Learner Ablutions</p> <p>[A7] DWG 34 - Female Learner Ablutions</p> <p><u>MODEL PREAMBLES</u></p> <p>The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates</p> <p><u>RAINWATER DISPOSAL:</u></p> <p><u>Watertite or equal approved Aluminium Gutters and Downpipes:</u></p> | | | |
| 1 | <p>125 x 85 x 0.6mm Ogee domestic gutters including gutter brackets at 600mm centres.</p> <p>2B : 0 A0 : 0 A2 : 5 A3 : 0</p> <p>A4 : 0</p> | m | 5 | |
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| | <p>Section 2</p> <p>Bill No. 7</p> <p>Plumbing and Drainage (Provisional)</p> | | | |

| | | | |
|---|--|----|----|
| 2 | Extra over eaves gutter for stopped end. 2B : 0 A0 : 0 A2 : 0 A3 : 0 A4 : 4 | No | 4 |
| 3 | Extra over eaves gutter for outlet for 100 x 75mm aluminium downpipe. 2B : 0 A0 : 0 A2 : 0 A3 : 0 A4 : 4 | No | 4 |
| 4 | 100 x 75 x 0.6mm rectangular fluted downpipes fixed to wall with and including proprietary holderbats to 5000L rainwater tanks (elsewhere measured). 2B : 0 A0 : 4 A2 : 3 A3 : 3 A4 : 3 | m | 13 |
| 5 | Extra over rainwater downpipe for bends. 2B : 0 A0 : 0 A2 : 0 A3 : 0 A4 : 4 | No | 4 |
| <u>TAPS, VALVES, ETC</u> | | | |
| <u>Elbow action medical mixers and taps:</u> | | | |
| 6 | 15mm Chrome plated elbow action pillartap (code 503-21B/R). 2B : 0 A0 : 0 A2 : 1 A3 : 0 A4 : 1 | No | 2 |
| <u>Solid Cast brass taps, valves, etc:</u> | | | |
| 7 | "Cobra KM2-200" or other approved 15mm chrome plated metered bib tap with non-hold open feature and flow controller. 2B : 0 A0 : 4 A2 : 6 A3 : 8 A4 : 6 | No | 24 |
| 8 | 15mm Ball-o-stop valve. 2B : 0 A0 : 3 A2 : 3 A3 : 4 A4 : 3 | No | 13 |
| 9 | 22mm Non Return valve. 2B : 5 A0 : 0 A2 : 0 A3 : 0 A4 : 0 | No | 5 |

WASTE UNIONS ETC

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Section 2
Bill No. 7
Plumbing and Drainage (Provisional)

Outlets, traps, etc:

| | | | | | |
|----|---|----|----|--|--|
| 10 | 40mm 342/50 CP bottle trap. 2B : 0 A0 : 1 A2 : 0 A3 : 0 A4 : 0 | No | 1 | | |
| 11 | 40mm Code 316 chrome plated unslotted waste outlet. 2B : 0 A0 : 2 A2 : 3 A3 : 4 A4 : 3 | No | 12 | | |
| 12 | 40mm Rubber "P" or "S" trap 2B : 0 A0 : 2 A2 : 3 A3 : 4 A4 : 3 | No | 12 | | |

SANITARY FITTINGS

Work to existing VIP200 toilet pedestals:

| | | | | | |
|----|---|----|---|--|--|
| 13 | Check existing VIP 200 Pit pedestal, replace damaged flap with new integral flap cover. 2B : 0 A0 : 0 A2 : 0 A3 : 2 A4 : 6 | No | 8 | | |
|----|---|----|---|--|--|

Rust and corrosion resistant, UV-resistant polyethylene pedestals, urinals, basins, etc. Product and colour to Principal Agent's approval:

| | | | | | |
|----|---|----|---|--|--|
| 14 | VIP 450 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors. 2B : 0 A0 : 3 A2 : 1 A3 : 0 A4 : 1 | No | 5 | | |
| 15 | VIP 200 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors. 2B : 1 A0 : 0 A2 : 0 A3 : 0 A4 : 0 | No | 1 | | |
| 16 | Bambi Longdrop VIP Pit pedestal for children complete with C/W flap. size: 282 x 360 x 300mm. 2B : 0 A0 : 0 A2 : 3 A3 : 0 A4 : 0 | No | 3 | | |

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Bill No. 7
Plumbing and Drainage (Provisional)

Vaal or equal approved:

| | | | |
|----|--|----|----|
| 17 | Lavatera White Vitreous china wall mounted bowl urinal with top inlet [code: 704001] 610x385mm, supplied with 38mm chromium plated domical grating [code: 8787], chromium plated spreader [code: 8543], and two hanger brackets [code: 8127] 2B : 0 A0 : 1 A2 : 0 A3 : 0 A4 : 0 | No | 1 |
| 18 | Hibiscus White Vitreous china 510 x 405mm rounded basin [code: 7050] with one tap hole on left hand side, including integrated overflow, bolted to wall with two 8mm bolts [code 8448Z0], to manufacturer's specification. 2B : 0 A0 : 2 A2 : 3 A3 : 4 A4 : 3 | No | 12 |

Franke Model TU101 or equal approved flush valve/cistern flat back wall mounted urinal:

| | | | |
|----|---|----|---|
| 19 | SS-TU101-1830R Flat back stainless steel school trough urinal wall and floor mounted. manufactured from Grade 304 (18/10) Stainless Steel, 0,9 mm gauge. Urinal to be supplied with a concealed sparge pipe and a 22 mm inlet with chrome plated conex fitting for connecting to water inlet (Connection fitting not supplied). Urinal to include a tiling key to sides and rear walls. The back to be fully sound deadened with vermin proof bitumastic material. Outlet to be situated on the left or right of the urinal with a recess for 40 mm chrome plated waste outlet. 2B : 0 A0 : 0 A2 : 0 A3 : 2 A4 : 0 | No | 2 |
|----|---|----|---|

SANITARY PLUMBING

Work to existing PVC vent pipes:

| | | | |
|----|---|---|----|
| 20 | Check existing 110mm vent pipe, secure pipes, seal roof sheeting hole where pipe pass through with waterproofing membrane and make good. 2B : 0 A0 : 16 A2 : 16 A3 : 8 A4 : 28 | m | 68 |
|----|---|---|----|

PVC waste or vent pipes and fittings:

| | | | |
|----|--|---|----|
| 21 | 50mm Waste pipe. 2B : 0 A0 : 35 A2 : 22 A3 : 23 A4 : 15 | m | 95 |
|----|--|---|----|

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Plumbing and Drainage (Provisional)

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| | | | | | |
|-------------------------------------|--|----|----|---|--|
| 22 | 110mm Pipe and laying in ground or filling not exceeding 2m deep including excavation, filling in and ramming. 2B : 0 A0 : 0 A2 : 0 A3 : 35 A4 : 0 | m | 35 | | |
| 23 | 110mm Vent pipe fixed to wall with proprietary brackets at not exceeding 500mm centres. 2B : 0 A0 : 8 A2 : 0 A3 : 0 A4 : 0 | m | 8 | | |
| <u>uPVC gulleys</u> | | | | | |
| 24 | 200mm Precast concrete gully dish and uPVC lowback assembly complete with 110mm P trap gully (code UGB 40) including 190mm diameter head (code UGA 40) and grate (code UGG 40), not exceeding 750mm deep, jointed to 110mm drain pipe, including excavations for and encasing in concrete (15MPa crushing strength after 28 days) worked up to form kerb, finished smooth on top in 1:3 cement mortar. 2B : 0 A0 : 1 A2 : 1 A3 : 1 A4 : 1 | No | 4 | | |
| <u>Extra for:</u> | | | | | |
| 25 | 50mm Bend. 2B : 74 A0 : 0 A2 : 0 A3 : 0 A4 : 0 | No | 74 | | |
| 26 | 50mm Access bend. 2B : 62 A0 : 0 A2 : 0 A3 : 0 A4 : 0 | No | 62 | | |
| 27 | RoofWhirllys4Africa or equal approved Toilet / Sewer Vent to fit 110mm pipe - Black. 2B : 0 A0 : 4 A2 : 4 A3 : 2 A4 : 7 | No | 17 | | |
| <u>WATER SUPPLIES</u> | | | | | |
| <u>Polycop pipes:</u> | | | | | |
| Pipes shall be class 10. | | | | | |
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| Plumbing and Drainage (Provisional) | | | | | |

Fixing of pipes

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level

Polycop pipes chased in walls:

Where pipes have been chased in walls, the price for making good of plaster and paint etc shall be deemed to be included in the description of pipe chased in walls.

Reducing fittings:

Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.

Class 10 Polycop pipes:

| | | | | | |
|--|--|----|-----|--|--|
| 28 | 15mm Pipe chased into brick walls. 2B : 0 A0 : 32 A2 : 30 A3 : 28 A4 : 18 | m | 108 | | |
| 29 | 22mm Pipe chased into brick walls. 2B : 0 A0 : 15 A2 : 17 A3 : 19 A4 : 18 | m | 69 | | |
| <u>Extra over polycop pipes for compression fittings:</u> | | | | | |
| 30 | 15mm Fittings. 2B : 0 A0 : 17 A2 : 15 A3 : 14 A4 : 15 | No | 61 | | |
| 31 | 22mm Fittings. 2B : 0 A0 : 12 A2 : 14 A3 : 5 A4 : 12 | No | 43 | | |

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Plumbing and Drainage (Provisional)

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Plumbing and Drainage (Provisional)

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Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the epoxy paint is intended to be done.

Contractor to provide a Letter of Compliance confirming that epoxy paint has been applied as per Manufacturer's instructions and data sheet. Proof of payment for the epoxy paint must be provided to the Principal Agent once approval has been granted.

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Bill No. 9
Paintwork

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PAINTWORK ETC TO NEW WORK

ON WOOD

Prime or oil:

| | | | |
|---|---|---|----|
| 1 | Backs of frames or linings not exceeding 300mm girth. | m | 94 |
| | 2B : 0 A0 : 23 A2 : 18 A3 : 18 | | |
| | A4 : 36 | | |

Stop, sand down and prepare wood surfaces and apply one coat wood primer, one undercoat and two coats eggshell enamel paint as per Plascon or equal approved:

| | | | |
|---|---|----|----|
| 2 | On doors | m2 | 75 |
| | 2B : 0 A0 : 17 A2 : 18 A3 : 13 | | |
| | A4 : 27 | | |

| | | | |
|---|--|----|----|
| 3 | On door frames | m2 | 25 |
| | 2B : 0 A0 : 5 A2 : 6 A3 : 4 | | |
| | A4 : 8 | | |

Prepare and apply two coats carbolenium on:

| | | | |
|---|---|----|-----|
| 4 | On exposed timbers. | m2 | 146 |
| | 2B : 0 A0 : 36 A2 : 35 A3 : 29 | | |
| | A4 : 46 | | |

ON FIBRE-CEMENT

Prepare and apply two coats pure acrylic roof paint on:

| | | | |
|---|--|----|---|
| 5 | On fascias and barge boards. | m2 | 4 |
| | 2B : 0 A0 : 0 A2 : 4 A3 : 0 | | |
| | A4 : 0 | | |

ON PVC VENT PIPE

Prepare and apply two coats black PVA paint:

| | | | |
|---|--|----|----|
| 6 | Vent Pipes | m2 | 64 |
| | 2B : 0 A0 : 15 A2 : 15 A3 : 8 | | |
| | A4 : 26 | | |

REDECORATION OF EXISTING

PREVIOUSLY PAINTED CONCRETE, PLASTER, ETC

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Section 2
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Paintwork

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| | | | | | |
|----|---|----|-----|---|--|
| | <u>Scrub surface with degreaser, rinse thoroughly with tap water, and apply one coat sealer and two coats epoxy paint on:</u> | | | | |
| 7 | Concrete floated or screeded floors 2B : 0 A0 : 11 A2 : 17 A3 : 19 A4 : 24 <u>Scrape down loose or peeling paint, clean off surface contaminants with a sugar soap solution, allow to dry, stop all holes, minor cracks, etc. and apply one coat plaster primer and two coats interior washable acrylic washable emulsion sheen paint on:</u> | m2 | 71 | | |
| 8 | Internal plastered walls. 2B : 0 A0 : 56 A2 : 66 A3 : 81 A4 : 76 | m2 | 279 | | |
| 9 | Internal smooth plastered walls in narrow widths not exceeding 300mm wide. 2B : 0 A0 : 4 A2 : 4 A3 : 5 A4 : 8 | m2 | 21 | | |
| | <u>PREVIOUSLY PAINTED FIBRE CEMENT</u> <u>Scrape down loose or peeling paint, clean off surface contaminants with a sugar soap solution, allow to dry and apply one coat primer and two coats professional exterior super matt paint on:</u> | | | | |
| 10 | External fibre cement fascia boarding including priming cover strips. 2B : 0 A0 : 3 A2 : 5 A3 : 6 A4 : 7 | m2 | 21 | | |
| 11 | External fibre cement bargeboard including priming cover strips. 2B : 0 A0 : 4 A2 : 4 A3 : 4 A4 : 4 <u>Scrape down loose or peeling paint, clean off surface contaminants with a sugar soap solution, allow to dry and apply one coat primer and two coats professional interior super matt paint on:</u> | m2 | 16 | | |
| 12 | Internal cill not exceeding 300mm girth. 2B : 0 A0 : 3 A2 : 4 A3 : 4 A4 : 7 | m | 17 | | |
| | <u>PREVIOUSLY PAINTED METALWORK</u> | | | | |
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| | Section 2 | | | | |
| | Bill No. 9 | | | | |
| | Paintwork | | | | |

Thoroughly wash down with approved disinfectant solution and leave clean :

| | | | |
|----|--|----|---|
| 14 | Toilet pan and cisterns. | No | 8 |
| | 2B : 0 A0 : 0 A2 : 0 A3 : 2 | | |
| | A4 : 6 | | |

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Paintwork

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Section 2

| THE FOLLOWING IN ACCESS DRIVEWAY, ETC. | | |
|--|----|-----|
| <u>Excavation not exceeding 2m deep</u> | | |
| Reducing levels and depositing excavated material in prescribed stock piles on site. | m3 | 108 |
| <u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u> | | |
| Off site to a dumping site to be found by the Contractor. | m3 | 108 |
| <u>Filling supplied by the contractor under driveways</u> | | |
| G7 Base course material compacted to 98% Mod AASHTO density | m3 | 36 |
| Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density. | m3 | 36 |
| <u>Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:</u> | | |
| Under floors,etc. | m2 | 240 |
| <u>Prescribed density tests on filling:</u> | | |
| In-situ dry density test. | No | 24 |
| <u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u> | | |
| Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved. | m2 | 240 |
| <u>150-175mm diameter bollards</u> | | |
| 2100mm long tanalith treated gum pole planted 800mm deep including excavations, cartaways, concrete base etc. | No | 12 |
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| Section 3 Bill No. 1 External Works | | R |

**THE FOLLOWING IN EXISTING RAINWATER
TANKS AND STANDS**

Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc:

| | | | |
|----|---|----|----|
| 9 | External plaster from walls, columns and beams. | m2 | 10 |
| 10 | 15mm Copper piping including fittings and brackets and blanking off in walls. | m | 6 |
| 11 | 22mm Copper piping including fittings and brackets and blanking off in walls. | m | 5 |
| 12 | Pre-cast concrete basins 950 x 450mm. | No | 4 |

EXTERNAL PLASTER

15mm thick of 1:4 sand cement plaster with Coprox masonry waterproofing or equal approved waterproof cement additive. Add 2.5kg Coprox waterproof cement additive for every 50kg of cement used in plaster mix

| | | | |
|----|---|----|----|
| 13 | On walls. | m2 | 10 |
| 14 | Walls in patching. | m2 | 2 |
| 15 | Tighten wires securing tanks to the tank stands, provide any missing wires, anchors, etc and ensure the tank is properly secured to the tank stand. | No | 4 |

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External Works

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External Works

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External Works

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Section 3

Soil Drainage

- | | |
|---|--|
| 7 | Provide the amount of R 40 000.00 for Soil Drainage, etc., to be executed by SMME's. |
| 8 | Profit on above item. |
| 9 | Attendance on ditto. |

| | |
|------|-----------|
| Item | 40 000.00 |
| Item | |
| Item | |

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Section 4
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Local SMME Packages

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Local SMME Packages

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Section 4

Bill No. 1

Local SMME Packages

Quality Testing of SMME Works & Materials:

- 3 Provide the sum of R50 000.00 (Fifty Thousand Rands)
for testing the work done by SMMEs and the materials
supplied by local suppliers
- 4 Add: Mark-up

| | |
|------|-----------|
| Item | 50 000.00 |
|------|-----------|

| | |
|------|--|
| Item | |
|------|--|

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|--|---|

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Provisional Sums

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Section 4

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