| Item No | | Quantity | Rate | Amount R |
|------------|---|----------|------|-------------|
| | SECTION NO. 1 | | | |
| | BILL NO. 1 | | | |
| | PRELIMINARIES | | | |
| | i) The agreement is to be the JBCC Series 2000 Principal Building Agreement, Edition 4.1 Code 2101 March 2005, and other contract documents that together form the contract between the employer and contractor | | | |
| | ii) The preliminaries are to be the JBCC Series 2000 Code 2103 Preliminaries prepared by the Joint Building Contracts Committee, May 2005 edition and shall be deemed to be incorporated herein | | | |
| | iii) Tenderers are referred to the above mentioned documents for the full intent and meaning of each clause thereof (hereinafter referred to by heading and clause number only) for which such allowance must be made as may be considered necessary | | | |
| | iv) 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 | | | |
| | v) Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable") | | | |
| | vi) 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, 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 in proportion to time | | | |
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| | SECTION A: PRINCIPAL BUILDING AGREEMENT | | |
|----|--|------|---|
| | Definitions (A1) | | |
| 1 | Definitions and interpretation (clause 1) | Item | |
| | Objective and Preparation (A2 to A14) | | |
| 2 | Offer acceptance and performance (clause 2) | Item | |
| 3 | Documents (clause 3) | Item | |
| 4 | Design responsibility (clause 4) | Item | |
| 5 | Employer's agents (clause 5) | Item | |
| 6 | Site representative (clause 6) | Item | |
| 7 | Compliance with regulations (clause 7) | Item | |
| 8 | Works risk (clause 8) | Item | |
| 9 | Indemnities (clause 9) | Item | |
| 10 | Works insurances (clause 10) | Item | |
| 11 | Liability insurances (clause 11) | Item | |
| 12 | Effecting insurance (clause 12) | Item | |
| 13 | NO CLAUSE 13. | N/A | |
| 14 | Security (clause 14) | Item | |
| | Execution (A15-A23) | | |
| 15 | Preparation for and execution of the works (clause 15) | Item | |
| 16 | Access to the works (clause 16) | Item | |
| 17 | Contract instructions (clause 17) | Item | |
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| 18 | Setting out of the works (clause 18) | Item | | |
|----|---|------|---|--|
| 19 | Assignment (clause 19) | Item | | |
| 20 | Nominated subcontractors (clause 20) | Item | | |
| 21 | Selected subcontractors (clause 21) | Item | | |
| 22 | Employer's Direct Contractors (clause 22) | Item | | |
| 23 | Contractor's Domestic Sub-Contractors (Clause 23) | Item | | |
| | Completion (A24-A30) | | | |
| 24 | Practical completion (clause 24) | Item | | |
| 25 | Works completion (clause 25) | Item | | |
| 26 | Final completion (clause 26) | Item | | |
| 27 | Latent defects liability period (clause 27) | Item | | |
| 28 | Sectional completion (clause 28) | Item | | |
| 29 | Revision of date of practical completion (clause 29) | Item | | |
| 30 | Penalty for non-completion (clause 30) | Item | | |
| | Payment (A31 - A35) | | | |
| 31 | Interim payment to the contractor (clause 31) | Item | | |
| 32 | Adjustment to the contract value (clause 32) | Item | | |
| 33 | Recovery of expense and loss (clause 33) | Item | | |
| 34 | Final account and final payment (clause 34) | Item | | |
| 35 | Payment to other parties (clause 35) | Item | | |
| | Cancellation (A36-A39) | | | |
| 36 | Cancellation by employer - contractor's default (clause 36) | Item | | |
| | 30) | Item | | |
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| 37 | Cancellation by employer - loss and damage (clause 37) | Item | | |
|----|--|------|---|--|
| 38 | Cancellation by contractor - employer's default (clause 38) | Item | | |
| 39 | Cancellation - cessation of the works (clause 39) | Item | | |
| | Dispute (A40) | | | |
| 40 | Dispute Settlement (clause 40) | Item | | |
| | Substitute Provisions (A41) | | | |
| 41 | State clauses (Clause 41) | Item | | |
| | THE SCHEDULE | | | |
| | Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder | | | |
| 42 | Pre-tender information (clause 42) | Item | | |
| | 42.2 CONTRACT DETAILS | | | |
| | 42.2.1 Works Description: | | | |
| | Repairs, renovations and additions at Prince Dabulamanzi Primary School | | | |
| | 42.2.2 Site Description | | | |
| | The local Municipality is Ulundi and site coordinates are 28° 17′ 18.52″ S and 31° 25′ 44.77″ E. | | | |
| | 42.2.3 Work or installations by direct contractors: | | | |
| | None | | | |
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| 42.2.4 This agreement is for a government contract where there are specific options that are applicable to a State organ only 42.2.4 This agreement is for a government contract where there are specific options that are applicable to a State organ only [41.0] Where so: Yes | | |
|--|---|--|
| [31.11.2#] (1) Interest rate legislation: The interest rate applicable will be as [31.12.2#] determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999) | | |
| [11.2#] (2) Lateral support insurance to be affected by contractor: No | | |
| [31.4.2#] (3) Payment will be made for materials and goods: Yes | | |
| [40.2.2#] (4) Dispute resolution by litigation : No | | |
| [26.1.2#] (5) Extended defects liability period applicable to the following elements: None | | |
| 42.2.5 Date on which possession of the site is intended to be given: | | |
| TBC (date) | | |
| 42.2.6 Period for the commencement of the works after the contractor takes possession of the site | | |
| 10 (Ten) working days | | |
| 42.2.7 For the works as a whole. Intended date of practical completeion and the penalty per calendar day TBC (date) | | |
| R9 240.00 Penalty Amount | | |
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| 42.2.8 For the works in sections: N/A Intended date of practical completion and the penalty per calender day | | |
|--|---|---|
| N/A Section 1 | | |
| RPenalty Amount | | |
| Section 2 | | |
| RPenalty Amount | | |
| Section 3 Date | | |
| R Penalty Amount | | |
| Section 4Date RPenalty Amount | | |
| 42.2.9 The law applicable to this agreement shall be that of | | |
| Republic of South Africa (country) | | |
| 42.3 INSURANCES | | |
| 42.3.1 Contract works insurance to be effected b: | | |
| Contractor: For the Sum of Contract Sum + 10% With a deductible of not exceeding 5% of every claim | | |
| 42.3.2 Supplementary insurance is required No | | |
| 42.3.3 Public liability insurance to be effected y: | | |
| Contractor: For the Sum of R 5 000 000 With a deductible of not exceeding 5% for each and every claim | | |
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| 42.4.1 Waivers of contractors lien or right of continuing possession is required N/A 42.4.2 Number of construction document copies to be supplied to the contractor free of charge: Three (3) Number off 42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: (state system) Standard System of Measurement version 6 42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days Five (5) Number off 42.4.5 JBCC Engineering General Conditions are to be included in the contract documents: No 42.4.6 The contract value is to be adjusted using escalation adjustment indices No Where JBCC CPAP is to be used Base Month Not Applicable 42.4.7 Details of changes made to the provision of JBCC standard documentation: [An addendum is to be attached should the space provided be insufficient] |
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| supplied to the contractor free of charge: Three (3) Number off 42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: (state system) Standard System of Measurement version 6 42.4.4 On acceptance of the tender the bills of quantities/Lump sum document is to be submitted within working days Five (5) Number off 42.4.5 JBCC Engineering General Conditions are to be included in the contract documents: No 42.4.6 The contract value is to be adjusted using escalation adjustment indices No Where JBCC CPAP is to be used Base Month Not Applicable 42.4.7 Details of changes made to the provision of JBCC standard documentation: [An addendum is to be |
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| included in the contract documents: No 42.4.6 The contract value is to be adjusted using escalation adjustment indices No Where JBCC CPAP is to be used Base Month Not Applicable 42.4.7 Details of changes made to the provision of JBCC standard documentation: [An addendum is to be |
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| Base Month Not Applicable 42.4.7 Details of changes made to the provision of JBCC standard documentation: [An addendum is to be |
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| | SECTION B: PRELIMINARIES | | | |
|----|--|------|---|--|
| | Definitions and interpretation (B1) | | | |
| 43 | Definition and interpretation (B1.1 - B1.4.6) | Item | | |
| | Documents (B2) | | | |
| 44 | Checking of documents (B2.1) | Item | | |
| 45 | Provisional bills of quantities (B2.2) | Item | | |
| 46 | Availability of construction documentation (B2.3) | Item | | |
| 47 | Interests of agents (B2.4) | Item | | |
| 48 | Priced documents (B2.5) | Item | | |
| 49 | Tender submission (B2.6) | Item | | |
| | The site (B3) | | | |
| 50 | Defined works area (B3.1) | Item | | |
| 51 | Geotechnical investigation (B3.2) | Item | | |
| 52 | Inspection of the site (B3.3) | Item | | |
| 53 | Existing premises occupied (B3.4) | Item | | |
| 54 | Previous work - dimensional accuracy (B3.5) | Item | | |
| 55 | Previous work - defects (B3.6) | Item | | |
| 56 | Services - known (B3.7) | Item | | |
| 57 | Services - unknown (B3.8) | Item | | |
| 58 | Protection of trees etc (B3.9) | Item | | |
| 59 | Articles of value (B3.10) | Item | | |
| 60 | Inspection of adjoining properties etc (B3.11) | Item | | |
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| | Management of contract (B4) | | | |
|----|--|------|---|--|
| 61 | Management of the works (B4.1) | Item | | |
| 62 | Programme for the works (B4.2) | Item | | |
| 63 | Progress meetings (B4.3) | Item | | |
| 64 | Technical meetings (B4.4) | Item | | |
| 65 | Labour and Plant records (B4.5) | Item | | |
| | Samples, Shop Drawings and Manufacturer's Instructions (B5) | | | |
| 66 | Samples of materials (B5.1) | Item | | |
| 67 | Workmanship samples (B5.2) | Item | | |
| 68 | Shop drawings (B5.3) | Item | | |
| 69 | Compliance with Manufacturer's Instructions (B5.4) | Item | | |
| | Temporary works and plant (B6) | | | |
| 70 | Deposits and fees (B6.1) | Item | | |
| 71 | Enclosure of the works (B6.2) | Item | | |
| 72 | Advertising (B6.3) | Item | | |
| 73 | Plant, equipment, sheds and offices (B6.4) | Item | | |
| 74 | Main notice board (B6.5) | Item | | |
| 75 | Subcontractors' notice board (B6.6) | Item | | |
| | Temporary services (B7) | | | |
| 76 | Location (B7.1) | Item | | |
| 77 | Water (B7.2) Option [A] shall apply | Item | | |
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| 78 | Electricity (B7.3) | Option [A] shall apply | Item | | |
|----|---|---------------------------------------|------|---|--|
| 79 | Telecommunication facilities (B | 7.4) | Item | | |
| 80 | Ablution facilities (B7.5) | Option [A] shall apply | Item | | |
| | Prime cost amounts (B8) | | | | |
| 81 | Responsibility for prime cost an | nounts (B8.1) | Item | | |
| | Attendance on N/S Subcontract | tors (B9) | | | |
| 82 | General attendance (B9.1) | | Item | | |
| 83 | Special attendance (B9.2) | | Item | | |
| 84 | Commissioning - Fuel, water an | nd power (B9.3) | Item | | |
| | Financial aspects (B10) | | | | |
| | Statutory taxes, duties and levie | es (B10.1) | Item | | |
| 85 | Payment of preliminaries (B10.2 | 2) Option [A] shall apply | Item | | |
| 86 | Adjustment of preliminaries (B1 | 0.3) | Item | | |
| 87 | Payment certificate cash flow (E | 310.4) | Item | | |
| | General (B11) | | | | |
| 88 | Protection of works (B11.1) | | Item | | |
| 89 | Protection/isolation of existing/s works (B11.2) | ectionally occupied | Item | | |
| 90 | Security of the Works (B11.3) | | Item | | |
| 91 | Notice before covering work (B' | 11.4) | Item | | |
| 92 | Disturbance (B11.5) | | Item | | |
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| 93 | Environmental Disturbance (B11.6) | Item | | |
|-----|--|------|----|---|
| 94 | Works cleaning and clearing (B11.7) | Item | | |
| 95 | Vermin (B11.8) | Item | | |
| 96 | Overhand work (B11.9) | Item | | |
| 97 | Instruction manuals and guarantees (B11.10) | Item | | |
| 98 | As built information (B11.11) | Item | | |
| 99 | Tenant Installations (B11.12) | Item | | |
| | Schedule of variables (B12) | | | |
| 100 | Pre-tender information (B12.1) | Item | | |
| | 12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional: Yes | | | |
| | 12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete No | | | |
| | 12.1.3 Interest of agents (B2.4) | | | |
| | None | | | |
| | 12.1.4 Defined works area (B3.1) | | | |
| | To be discussed at Site Hand Over meeting | | | |
| | 12.1.5 Geotechnical investigation (B3.2) | | | |
| | N/A | | | |
| | 12.1.6 Existing premises occupied (B3.4) | | | |
| | Cognisance must be taken as the school will be fully functional for the duration of the contract. Contractor to work at all times with the school to ensure that children is safe at all times | | | |
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| 12.1.7 Previous work - dimensional accuracy (B3.4) | | | | |
|--|---|---|-----|--|
| All measurements needs to be confirmed on site prior of ordering any materials | | | | |
| 12.1.8 Previous work - defects (B3.5) | | | | |
| Defects to be identified and brought under the attention of the Principal Agent | | | | |
| 12.1.9 Services - known (B3.7) | | | | |
| All water and electricity to be treated as live | | | | |
| 12.1.10 Protection of trees (B3.9) | | | | |
| N/A | | | | |
| 12.1.11 Inspection of adjoining properties (B3.11) | | | | |
| Photographic report of all existing building must be established prior to commencement with any work on site | | | | |
| 12.1.12 Enclosure of the works (B6.2) | | | | |
| Work to be enclosed to ensure all Health and Safety requirements are met | | | | |
| 12.1.13 Offices (B6.4.3) | | | | |
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| 12.1.14 Main notice board (B6.5) | |
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| 12.1.15 Subcontractors notice board (B6.6) | |
| A notice board is required No | |
| 12.1.16 Water (B7.2) Alternative Selected: A | |
| 12.1.17 Electricity (B7.3) Alternative selected: A | |
| 12.1.18 Telecommunications (B7.4) | |
| 12.1.19 Ablution facilities (B7.5) Alternative selected: A | |
| 12.1.20 Protection of existing/sectionally occupied works (B11.2) | |
| 12.1.21 Special attendance (B9.2) | |
| Subcontractor (1) details: | |
| None | |
| 12.1.22 Protection of the works (B11.1) | |
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| 12.1.23 Disturbance (B11.5) | | |
|---|---|--|
| Contractor to ensure the least amount of Disturbance to learners especially in the morning and during examinations. Coordination of work and time frames to be agreed with the governing bodies | | |
| 12.1.24 Environmental Disturbance (B11.6) | | |
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| | | |
| Post tender information (B12.2) | | |
| 12.2.1 Payment of preliminaries Alternative selected: | | |
| 12.2.2 Adjustment of preliminaries Alternative selected: | | |
| 12.2.3 Additional agreed preliminaries items | | |
| SECTION C: SPECIFIC PRELIMINARIES | | |
| Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item | | |
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| 101 | C1. Contract Drawings | | | |
|-----|--|------|---|--|
| | The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent | | | |
| | F: V: T: | Item | | |
| 102 | C2 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. | | | |
| | F: V: T: | Item | | |
| 103 | C3. Trade Names, etc. | | | |
| | All materials, fittings, finishing, 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, finishing, 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. | | | |
| | F: V: T: | Item | | |
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| 104 | C4. Contractors responsibility | | | |
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| | 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. | | | |
| | F: V: T: | Item | | |
| 105 | C5. 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 | | |
| 106 | C6. 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. | | | |
| | F: V: T: | Item | | |
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| 107 | C7. 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 in the book. | | | | |
| | Only instructions issued in such book shall be recognised. | | | | |
| | b) Daily Record Book: | | | | |
| | 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 countersignature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor. | | | | |
| | F: V: T: | Item | | | |
| 108 | C8. Labour record | | | | |
| | 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. | | | | |
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| 109 | C9. Plant record | | | |
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| | 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. | | | |
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| 110 | C10. Encroachment | | | |
| | 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. | | | |
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| 111 | C11. Method Statement | | | |
| | 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. | | | |
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| 112 | C12. Unauthorised Persons/Workmen on Premises 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. 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. | lkava | | |
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| 113 | C13. Mode of Procedure | | | |
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| | 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. | | | |
| | 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. | | | |
| | F: V: T: | Item | | |
| 114 | C14. Commodities to be New | | | |
| | All commodities, goods, articles or materials throughout the building are to be new except where re-use of existing is specified and are to be handled, stored, used, and/or fixed with care to ensure that they are in perfect condition when incorporated into the Works and thereafter properly protected so as to ensure that they are likewise in perfect condition when handed over at completion of the Work. | | | |
| | F: V: T: | Item | | |
| 115 | C15. Standard of Workmanship and Materials In the absence of detailed specifications for any item or items, National Building Regulations, the latest applicable South African Bureau of Standards Specification, or where such does not exist, then the latest applicable British Standard Specification shall apply. | | | |
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| 116 | C16. Making Good | | | |
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| | All materials and workmanship in building up, making good, etc., are to match existing and where new materials abut existing, they are to be neatly jointed to same. Making good' existing work where disturbed or damaged shall mean the provision of the necessary new material to match existing and the necessary workmanship so that a complete restoration is achieved to the satisfaction of the Principal Agent. Making good' where abutting walls, etc., are removed, shall mean the provision of the necessary material and workmanship in filling the gaps to match surrounding finishes so that a complete and perfect surface, continuous with surrounding surfaces and matching of same, is obtained to the Architect's satisfaction. | | | |
| | F: V: T: | Item | | |
| 117 | C17. Location of Temporary Buildings and Temporary Services | | | |
| | 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. | | | |
| | 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. | | | |
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| 118 | C18. Removal and Making Good of Temporary Works, etc, on Completion | | | |
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| | 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 there from. | | | |
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| 119 | C19. Overloading | | | |
| | The Tenderer shall prior to submitting his tender determine from the Engineers any constraints and limitations in respect of Works to be executed, which have load limitations. The Contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the Works. The Contractor shall submit details of his proposed loading, storage, plant erection, etc., to the Principal Agents for their approval prior to proceeding with such loading, storing, erecting or executing work and shall comply with and pay for the Engineers requirements in connection with the provision of temporary support work, etc. Any damage caused by the Works by overloading shall be made good by the Contractor at his sole expense. Notwithstanding any approval given by the Principal Agent or Engineer, the Contractor shall be entirely responsible for damage caused to the Works by overloading which damage shall be made good by the Contractor at his sole expense. | | | |
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| 120 | C20. Tender Sum to be Fully Inclusive | | | |
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| | The Tender Sum is deemed to be the fully inclusive price for the finished work described and is deemed to include inter alia for: The supply of all materials Labour of every description including additional costs incurred in working overtime, weekends, public holidays, etc., to meet The stipulated programme dates all making, transport, conveying, cartage, carriage and delivery, etc Taking delivery, unloading, storing, unpacking, hoisting or lowering, settings, fixing and building into positions, cutting and waste, templates, patterns and models Provision and maintenance of all plant, equipment, machines, trucks and other vehicles, tackle, tools, staging, sheds, stores and temporary works necessary for the due and proper performance of the Contract Works, establishment charges and all fuel, operating costs and depreciation pertaining to plant, equipment, etc all applicable import taxes and duties Overheads and profit all obligations arising out of The Bills of Quantities, and all costs and charges deemed necessary for | | | |
| | complying with The terms and conditions herein All charges required by the Contractor in connection | | | |
| | with Preliminary and General, site establishment and the like. | | | |
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| 121 | C21. Cost of Claims | | | |
| | All costs incurred by the Contractor in the preparation of claims to the satisfaction of the Principal Agent and/or Quantity Surveyor shall be borne by the Contractor. | | | |
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| 122 | C22. Media Releases | | | |
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| | All rights of publication of articles in the media, together with any advertising relating to, or in any way connected with this project shall vest in the Employer. | | | |
| | The Contractor, together with his Sub-Contractor shall not, without the written consent of the Principal Agent, cause any statement or advertisement to be printed, screened or aired by the media. | | | |
| | F: V: T: | Item | | |
| 123 | C23. Guarantees and Maintenance Manuals | | | |
| | The Contractor shall obtain and hand over to the Principal Agent on Practical Completion, all relevant guarantees, any operating and maintenance instruction manuals, data or instructions required by the Principal Agent or provided by manufacturer's, suppliers or Sub-Contractors. | | | |
| | The Contractor shall ensure that all warranties and guarantees received are fully ceded to the Employer on Final Completion, failing which the release of the Construction Guarantee will be withheld until this is satisfactorily completed. | | | |
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| 124 | C24. Occupational Health and Safety Act | | | |
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| | The Contractor shall for the duration of this contract be deemed to be the mandatory of the Council for the purposes of the Occupational Health and Safety Act, Act 85 of 1993, and he shall prior to taking occupation of the site satisfy the Council by means of written representations that he has fully complied with the relevant requirements of the said Act. Acceptance by the Council of the Contractors written representations in terms of the above shall constitute an agreement in writing to the arrangements and procedures between the parties to ensure compliance by the Contractor with the provisions of the Act referred to therein, for the purposes of Section 37(2) of the said Act. The Council shall at all times have the right to summarily suspend the performance of the Contractor hereunder pending compliance by the Contractor with any requirement, regulation and/or direction referred to. The Council shall be entitled to set-off against any amount owed by the Council to the Contractor hereunder any loss or damage suffered by it as a result of the suspension of the Contractor's performance in the circumstances envisaged above. The Tenderer shall price for all necessary items to comply with the Occupational Safety and Health Specification contained in Annexure 10 of these Bills of Quantities.Including Appointment of IAI as per Asbestos Regulations | | | |
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| | (WORKGROUP NO. 102) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | <u>View site</u> | | | |
| | Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials salvageable from the alterations. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained | | | |
| | <u>Explosives</u> | | | |
| | No explosives whatsoever may be used for alteration purposes unless otherwise stated | | | |
| | <u>General</u> | | | |
| | The contractor shall carry out the whole of the work with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their occupants. He shall provide proper protection and provide and erect any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent, and remove when directed | | | |
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| The contractor will be required to take all dimensions affecting the existing building on the site and he will be held solely responsible for the accuracy of all such dimensions | | |
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| Where existing screeds are described to be prepared for new floor finishes, the screeds are to be scraped clean of loose materials and glue and must be dry, dust free, clean, not contaminated with traces of grease or oils and primed with one coat "FloorworX No 33" bonding liquid and levelled with two coats "FloorworX Pavelite" smoothing compound all in accordance with the manufacturer's technical specifications | | |
| Any water supply pipes and other piping that may be met with and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent | | |
| <u>Prices</u> | | |
| Prices to take out and remove doors and frames shall be deemed to include for removing door stops, cabin hooks, etc and making good of holes | | |
| Prices for doors, windows, etc with frames where described as to be taken out shall be deemed to include for the removal of all beads, architraves, ironmongery, etc. Doors with frames which are to be re-fixed are to be provided with new architraves (architraves measured elsewhere) | | |
| Prices for doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be deemed to include for thorough overhauling before refixing, including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery if necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match the timber | | |
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| | Prices for building up of openings in existing walls shall be deemed to include for levelling and preparing of cement screeds, pavings, granolithic, etc, for raising of masonry | | | |
| | Prices for making good of finishes shall be deemed to include making good of the masonry and concrete surfaces onto which the new finishes are applied | | | |
| | Old material to be carted away | | | |
| | Old material from the alteration, except where described to be re-used or handed over, as well as all rubbish, etc., must be regularly carted from the site and not be allowed to accumulate on or around the site | | | |
| | Old material not to be re-used | | | |
| | None of the old materials are to be used for new work except where specifically described being set aside for re-use | | | |
| | Dealing with hazardous material | | | |
| | All hazardous materials, e.g. Asbestos, etc. must be removed and disposed off site by a specialist firm as per government regulations and environmental laws. | | | |
| | REMOVAL OF EXISTING WORK | | | |
| 1 | Allow for watering the works by spraying to prevent any nuisance from dust, etc and supply, erect and remove at completion all temporary dust screens, etc required | Item | | |
| 2 | Allow for protecting all existing work liable to suffer damage (ie. 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 principal agent | Item | | |
| 3 | Allow for the assistance for moving the necessary furniture and materials to provide access to the work. Any furniture remaining in the rooms shall be properly protected and the contractor shall be responsible for any damages caused to such items | Item | | |
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| 4 | Allow for moving four existing park home classrooms sizes 7.0 x 7.0m with lean to verandah 1.5m wide supported with 3 support posts to each parkhome. The classroom are to be moved within site as per the position on the site plan drawing number 9005-003-GGL-0017 accompanying this document to provide access to the work and to be later moved to a site to be identified by the client within 100km radius from the school. Any furniture remaining in the rooms shall be properly protected and the contractor shall be responsible for any damages caused to such items | | Item | | |
|----|--|----|------|---|--|
| 5 | Allow for relocation of playground and re-assemble in new area to be identified by the principal agent | | Item | | |
| | Breaking up and removing mass concrete, etc | | | | |
| 6 | 100mm Thick surface bed | m² | 277 | | |
| 7 | 130mm Thick V-drain channels | m² | 629 | | |
| | Breaking down and removing brickwork etc | | | | |
| 8 | Half brick wall in beam filling | m² | 179 | | |
| | Taking out and removing precast concrete, etc | | | | |
| 9 | Kerbing, including backing mass concrete | m | 101 | | |
| | Taking out and removing doors, windows, etc including thresholds, sills, etc from brickwork to remain (building up or altering openings elsewhere) (Contractor to note that all material to remain property of the Department) | | | | |
| 10 | Timber single door and frame 0.81 x 2.03m high overall from 110mm brick wall | No | 10 | | |
| 11 | Timber single door and timber frame 0.88 x 1.60m high overall from 110mm brick wall | No | 44 | | |
| 12 | Timber single door and steel frame 0.88 x 2.06m high overall from 230mm brick wall | No | 37 | | |
| 13 | Window not exceeding 2,5m2 from brickwork | No | 238 | | |
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| | <u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u> | | | | |
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| | Note: Tenderers are to comply with the Occupational Health and Safety Act - Asbestos Regulations. Tenderers are to allow for all specialist equipment, tools, signage, etc. deem necessary for the safe removal and disposal of all asbestos. | | | | |
| 14 | Remove double pitch roof with two gable ends, including all trusses, wall plate and purlins, asbestos roof sheeting and ridge capping | m² | 2 750 | | |
| 15 | Asbestos roof sheeting and purlins | m² | 409 | | |
| 16 | Fibre cement or wooden fascias and barge boards | m | 616 | | |
| 17 | Timber beams on brackets above timber columns including preparing to receive new beams (New beams measured elsewhere) | m | 225 | | |
| 18 | Gypsum plasterboard ceilings, including cornices, timber brandering, etc | m² | 1 937 | | |
| | Take out/off and remove sundry metalwork | | | | |
| 19 | Steel balustrades 1.10m high from concrete stairs, landings, etc including making good granolithic finish | m | 35 | | |
| 20 | Steel single gate and frame size 0.97 x 2.25m high bolted to brickwork, including making good brickwork | No | 10 | | |
| 21 | Steel double gate and frame size 1.66 x 2.25m high bolted to brickwork, including making good brickwork | No | 1 | | |
| 22 | 420mm Wide rectagrid cover over channels including preparation for new (New measured elsewhere) | m | 42 | | |
| 23 | $100 \times 50 \text{mm}$ Posts 2.10m high including base plate and bolts | No | 78 | | |
| 24 | 100 x 50mm beams | m | 82 | | |
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| | Take out and remove sundry joinery work, fittings, etc | | | |
|----|--|----|-------|---|
| 25 | Timber skirtings | m | 985 | |
| 26 | Timber sink cupboard $4.20 \times 0.60 \times 0.90$ m high, including disconnecting of water and waste pipes | No | 2 | |
| | Hack up/off and remove granolithic, screeds or plaster from concrete or masonry and prepare surfaces for new screeds or plaster | | | |
| 27 | External plaster from walls and columns | m² | 207 | |
| 28 | Internal plaster from ceilings and beams | m² | 14 | |
| | Hack up/off and remove ceramic tiles, including removing mortar bed or backing from concrete or masonry and preparing surfaces for new screeds or plaster | | | |
| 29 | 30mm Screeds from floors, including vinyl floor coverings | m² | 1 696 | |
| 30 | 30mm Screeds from floors, including Porcelain floor coverings | m² | 205 | |
| 31 | Tiles to walls | m² | 33 | |
| 32 | Tile skirtings 100mm high | m | 407 | |
| | Service existing steel windows | | | |
| 33 | Overhaul, adjust service and replace hinges, stays, handles, etc to ensure proper operation to existing steel window sash | No | 28 | |
| | Taking out and removing piping, gutters, etc, including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere): | | | |
| 34 | Asbestos cement eaves gutter and brackets | m | 655 | |
| 35 | Take off existing downpipe and brackets | m | 210 | |
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| | Take out and remove sanitary fittings, including cutting off, disconnecting and blanking off short lengths of pipes and making good floor and wall finishes (making good tiling and paintwork elsewhere) | | | | |
|----|--|----|-------|---|--|
| 36 | Stainless steel wash hand basin | No | 4 | | |
| 37 | Stainless steel range of three wash hand basin | No | 8 | | |
| 38 | Vitreous china wash hand basin | No | 1 | | |
| 39 | Vitreous china water closet pan with cistern | No | 50 | | |
| 40 | Stainless steel wall hung trough urinal with flush valve 5.36m wide, including preparation for new (New measured elsewhere) | No | 4 | | |
| 41 | Bathtub and fittings | No | 1 | | |
| 42 | Stainless steel double bowl sink and fittings | No | 2 | | |
| 43 | Fire hose reel | No | 5 | | |
| 44 | Fire extinguisher including backing boards or bracket | No | 6 | | |
| | BUILDING UP OPENINGS | | | | |
| | <u>Sundries</u> | | | | |
| 45 | Bed roof sheets in cement mortar on brickwork | m | 1 023 | | |
| | PREPARATORY WORK TO EXISTING SURFACES | | | | |
| | Preparation to existing vertical surfaces | | | | |
| 46 | Clean existing walls using a water pressure cleaning system and steel brushes and remove all dirt and loose particles. | m² | 2 009 | | |
| | MAKING GOOD OF FINISHES, ETC. | | | | |
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| | Making good cement plaster | | | | |
|----|--|----|-------|---|--|
| 47 | Making good to existing plastered walls with polymer plaster and repaint (paint measured elsewhere) | m² | 3 381 | | |
| 48 | Making good to existing plastered walls around windows | m² | 132 | | |
| 49 | Chase out plaster cracks to form recess 25mm wide and 20mm deep, and fill with 1:4 cement mortar, including floating up smooth to match existing | m | 27 | | |
| | Making good external cement plaster | | | | |
| 50 | Chase out plaster cracks to form recess 25mm wide and 20mm deep and fill with a suitable flexible filler for cracks up to 1mm wide and plaster and paint walls | m | 101 | | |
| 51 | Chase out plaster over area 300mm wide on either sides of cracks and fix galvanised chicken wire to brickwork over stripped area and make good with plaster to all cracks 2-4mm wide (Paintwork measured elsewhere) | m | 85 | | |
| 52 | Cracks 5mm or greater:- Chase out plaster over area 600mm wide on either sides of cracks, rake and clean out crack of all friable plaster. use angle grinder to cut slot in the brick course to accept a 3mm galvanised steel wire looped at each end. The slot is to be cut a minimum depth of 20mm into brickwork, extending a minimum of 500mm beyond the crack at either side, repeated at an interval of 150mm along the length of the crack. Secure looped ends of the galvanised wire into sound brickwork by means of wall plug or Hilti-nail over a minimum depth of 50mm into sound brickwork. Inject the crack with suitable epoxy filler and fill cut slot containing the galvanised rod with epoxy and make good plaster (paintwork measured elsewhere) | m | 41 | | |
| | Make good face brickwork | | | | |
| 53 | Faced brickwalls where 110mm screen walls have broken off | m² | 9 | | |
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| | SECTION NO. 2 | | | |
| | BILL NO 2 | | | |
| | <u>EARTHWORKS</u> | | | |
| | (WORKGROUP NO. 104) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | Material of a more difficult character | | | |
| | Should the contractor consider that any of the excavations are more difficult in character than excavations in "earth" he shall immediately notify the principal agent in writing. Failing such notification the excavations shall be deemed to be in "earth" and shall be measured and valued accordingly. The contractor may use any method he chooses to excavate any class of material, but his chosen method of excavation shall not determine the classification of the material excavated | | | |
| | 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 | | | |
| | Working space | | | |
| | Working space for formwork to sides of bases, ground beams, etc is measured with the assumption that it will be required by the principal agent in certain cases. If it is not required, it will be adjusted as such in the final account | | | |
| | Carried to Collection | | R | |
| | Section No. 2 Bill No. 2 EARTHWORKS DEVELOPMENT BANK OF SOUTHERN AFRICA | | | |

| | <u>Filling</u> | | | | | |
|---|---|----|-----|---|---|---|
| | Notwithstanding the reference to prescribed multiple handling in clause 1 page 10 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material | | | | | |
| | <u>Testing</u> | | | | | |
| | Prices for filling are to include for all necessary density and other tests | | | | | |
| | SITE CLEARANCE ETC | | | | | |
| | Site clearance | | | | | |
| 1 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc | m² | 661 | | | |
| 2 | Stripping average 100mm thick layer of top soil and stockpiling on site | m² | 661 | | | |
| | EXCAVATIONS | | | | | |
| | Excavations in earth not exceeding 2m deep | | | | | |
| 3 | Reduce levels under floors | m³ | 304 | | | |
| 4 | Trenches | m³ | 11 | | | |
| | EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER (PROVISIONAL) | | | | | |
| | Extra over bulk excavations in earth for excavations in | | | | | |
| 5 | Soft rock | m³ | 29 | | | |
| 6 | Hard rock | m³ | 14 | | | |
| | CARTING AWAY | | | | | |
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| | Extra over all excavations for carting away | | | | |
|-----|--|----|------|----|----------|
| 7 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor | m³ | 311 | | |
| | Risk of collapse of excavations | | | | |
| 8 | Sides of trench and hole excavations not exceeding 1,5m deep | m² | 328 | | |
| | Keeping excavations free of water | | | | |
| 9 | Keeping excavations free of all water other than subterranean water | | Item | | |
| | FILLING, ETC | | | | |
| | Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to a density of at least 95% Mod AASHTO maximum density | | | | |
| 10 | Backfilling to trenches, holes, etc | m³ | 2 | | |
| 11 | Under floors, steps, pavings, etc | m³ | 1 | | |
| | Earth filling supplied by the contractor | | | | |
| 12 | Under solid floors, steps, pavings, etc. of G5 material in accordance with SANS 1200DM compacted to 95% Mod AASHTO density" | m³ | 266 | | |
| 13 | "Under solid floors, steps, pavings, etc. of G7 material in accordance with SANS 1200DM compacted to 93% Mod AASHTO density" | m³ | 44 | | |
| | Coarse river sand filling supplied by the contractor, compacted to a density of at least 95% Mod AASHTO maximum density | | | | |
| 14 | Under floors etc | m³ | 48 | | |
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| | Compaction of surfaces | | | | |
|----|---|----|-----|---|---|
| 15 | Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density | m² | 947 | | |
| | PROTECTION AGAINST TERMITES | | | | |
| | Apply 'Chlorodane' or 'Aldrin' soil insecticides in strict accordance with manufacturers instructions and SABS 1164-1165 | | | | |
| 16 | Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming | m² | 936 | | |
| 17 | To bottoms and sides of trenches etc | m² | 25 | | |
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| | BILL NO 3 | | | |
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| | CONCRETE, FORMWORK AND REINFORCEMENT | | | |
| | (WORKGROUP NO. 110) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | Cost of tests | | | |
| | The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SANS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately) | | | |
| | <u>Formwork</u> | | | |
| | Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before reuse. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself. | | | |
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| | Section No. 2 Bill No. 3 CONCRETE, FORMWORK AND REINFORCEMENT DEVELOPMENT BANK OF SOUTHERN AFRICA | | | |

| | Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks" | | | | |
|---|---|----|----|---|--|
| | UNREINFORCED CONCRETE CAST AGAINST ECAVATED SURFACES | | | | |
| | 15MPa/19mm concrete | | | | |
| 1 | 50mm Thick blinding | m³ | 1 | | |
| | REINFORCED CONCRETE | | | | |
| | 20MPa/19mm concrete | | | | |
| 2 | Surface beds | m³ | 23 | | |
| 3 | Ramps | m³ | 4 | | |
| | 25MPa/19mm concrete | | | | |
| 4 | Surface beds | m³ | 1 | | |
| 5 | Raft slab | m³ | 12 | | |
| | REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES | | | | |
| | 25MPa/19mm concrete | | | | |
| 6 | Strip footings | m³ | 2 | | |
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| | TEST CUBES | | | | |
|----|---|----|------|---|--|
| 7 | Allow for all necessary concrete test cubes size 150 x 150 x 150mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the principal agent | | Item | | |
| | CONCRETE SUNDRIES | | | | |
| | Wood float surface treatment to finished face of concrete | | | | |
| 8 | Surface beds | m² | 290 | | |
| | Steel trowel surface treatment to finished face of concrete | | | | |
| 9 | Surface beds, slabs, etc to falls | m² | 43 | | |
| | (WORKGROUP NO. 111) | | | | |
| | SMOOTH FORMWORK | | | | |
| | Smooth formwork to sides | | | | |
| 10 | Edges, risers, ends and reveals not exceeding 300mm high or wide | m | 343 | | |
| | MOVEMENT JOINTS ETC | | | | |
| | Saw cut joints | | | | |
| 11 | Form 3 \times 40mm saw cut to top of concrete within 12 hours of pouring. Allow to cure for 7 days then ream out to form 13mm deep and 6mm wide recess | m | 116 | | |
| | Expansion joints with softboard between vertical concrete surfaces | | | | |
| 12 | 10mm Joints not exceeding 300mm high along edges of surface beds | m | 18 | | |
| | (WORKGROUP NO. 114) | | | | |
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| | REINFORCEMENT | | | | |
|----|--|----|------|---|--------|
| | High tensile steel reinforcement to structural concrete work | | | | |
| 13 | Various diameter bars | t | 0.26 | | |
| | Fabric reinforcement | | | | |
| 14 | Type 193 fabric reinforcement in concrete surface beds, slabs, etc | m² | 275 | | |
| 15 | Type 888 fabric reinforcement in concrete surface beds, slabs, etc | m² | 50 | | |
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| | BILL NO 4 | | | |
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| | MASONRY | | | |
| | (WORK GROUP NO. 116) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | BRICKWORK | | | |
| | Sizes in descriptions | | | |
| | Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick | | | |
| | <u>Lintels</u> | | | |
| | Lintels shall bear at least 250mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings the lintel shall be continuous | | | |
| | Reinforced brick lintels | | | |
| | Lintels shall bear at least 160mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings the lintel shall be continuous | | | |
| | <u>Pointing</u> | | | |
| | Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc | | | |
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| | MASONRY DEVELOPMENT BANK OF SOUTHERN AFRICA | | | |
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| | FACE BRICKWORK | | | | | |
|---|--|----|----|---|----|----------|
| | <u>General</u> | | | | | |
| | Bricks shall be ordered timeously to obtain uniformity in size and colour | | | | | |
| | <u>Pointing</u> | | | | | |
| | Descriptions of recessed pointing to face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc | | | | | |
| | <u>PAVINGS</u> | | | | | |
| | <u>Joints</u> | | | | | |
| | Pavings, etc, shall, except for crazy paving, be laid with continuous joints in both directions | | | | | |
| | <u>Cutting</u> | | | | | |
| | Descriptions of all pavings shall be deemed to include for all straight cutting and circular cutting around pipes, etc not exceeding 150mm diameter | | | | | |
| | MISCELLANEOUS | | | | | |
| | Bagging of masonry surfaces | | | | | |
| | Bagging of masonry surfaces shall be of the mortar as described rubbed onto surfaces with hessian cloth to provide a fair finish. The finished surface shall be free of penetrations or pitted openings or large protruding lumps of mortar. The finish shall be to the principal agent's approval | | | | | |
| | FOUNDATIONS | | | | | |
| | Brickwork of NFX bricks (14 MPa nominal compressive strength) in cement mortar | | | | | |
| 1 | Half brick walls (Provisional) | m² | 1 | | | |
| 2 | One brick walls (Provisional) | m² | 20 | | | |
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| | SUPERSTRUCTURE | | | | | |
|----|---|----|-------|---|---|---|
| | Brickwork of NFP bricks in cement mortar | | | | | |
| 3 | Half brick walls | m² | 5 | | | |
| 4 | Half brick walls in beamfilling | m² | 179 | | | |
| 5 | One brick wall | m² | 72 | | | |
| 6 | One brick walls in beamfilling | m² | 9 | | | |
| 7 | One brick walls of two half brick skins bagged and sealed, including galvanised crimp wire wall ties (7 per square metre) laid staggered. | m² | 21 | | | |
| | BRICKWORK SUNDRIES | | | | | |
| 8 | Cement mortar filling between water tank and brick wall to support tank | m³ | 5 | | | |
| 9 | Mortar bed on top of raking gable walls to form close joint with underside of roof sheeting | m² | 29 | | | |
| 10 | Cutting toothings and bonding new brickwork to existing | m² | 2 | | | |
| | Brickwork reinforcement | | | | | |
| 11 | 75mm Wide reinforcement built in horizontally (Provisional) | m | 2 122 | | | |
| 12 | 75mm Wide reinforcement built in horizontally in foundations (Provisional) | m | 11 | | | |
| 13 | 150mm Wide reinforcement built in horizontally (Provisional) | m | 544 | | | |
| 14 | 150mm Wide reinforcement built in horizontally in foundations (Provisional) | m | 183 | | | |
| | Prestressed fabricated concrete lintels including necessary temporary supports | | | | | |
| 15 | 110 x 70mm Lintels in lengths not exceeding 3m | m | 4 | | | |
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| Set of two 229 x 152mm terra cotta vermin proof air bricks No 12 Galvanised wire ties 4mm Diameter roof tie 2m girth bent double with one | |
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| | |
| 17 Amm Diameter roof tie 2m girth hent double with one | |
| end built into brickwork and other end fixed to timber No 402 | |
| FACE BRICKWORK | |
| "Corobrik Nala Travertine"face bricks pointed with recessed horizontal and vertical joints | |
| Extra over brickwork for face brickwork in foundations (Provisional) m ² 12 | |
| "Corobrik Nala Travertine"face bricks pointed with recessed horizontal and vertical joints | |
| 19 Extra over brickwork for face brickwork m ² 63 | |
| 20 Extra over brickwork in beamfilling for face brickwork m ² 179 | |
| Extra over brickwork for brick-on-edge header course lintels one course high m 71 | |
| <u>PAVINGS</u> | |
| 440 x 440 x 40mm Thick "Corobrik Natural grey flagstone" paving bricks with butt joints on and including 25mm thick sand bed with 1:6 cement and sand mixture swept into joints and hosed down, including preparation of ground or filling | |
| 22 Pavings in stretcher bond m ² 610 | |
| 23 150 x 250mm High kerbs (SANS 927 fig 4) m 101 | |
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| | BILL NO 5 | | | |
| | WATERPROOFING | | | |
| | (WORK GROUP NO. 120) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | DAMPPROOFING OF WALLS AND FLOORS | | | |
| | One layer of 250 micron "Consol Plastics Gunplas USB Green" or other approved waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape" | | | |
| 1 | Under surface beds | 32 | 5 | |
| | One layer of 375 micron "Consol Plastics Gunplas USB Orange" or other approved waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape" | | | |
| 2 | In walls | 2 1 | 6 | |
| | JOINT SEALANTS, ETC. | | | |
| | "Compriband" bitumen impregnated foam plastic joint sealing strips | | | |
| 3 | 25 x 20mm In joints between frames and walls | n 1 03 | 2 | |
| | "abe® silicone" sealant | | | |
| 4 | 5 x 5mm Fillet joints | n 13 | 1 | |
| | Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc | | | |
| 5 | 10 x 10mm In joints in top surfaces | n 3 | 4 | |
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| 6 | 12 x 12mm In vertical expansion joints including raking out expansion joint filler as necessary | m | 18 | | |
|---|---|---|----|---|--|
| | Sikaflex or other approve 1A polyurethane sealant | | | | |
| 7 | 12 x 12mm In horizontal expansion joints including raking out expansion joint filler as necessary | m | 20 | | |
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| | SECTION NO. 2 | | | |
| | BILL NO 6 | | | |
| | ROOF COVERINGS ETC | | | |
| | (WORK GROUP NO. 124) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | Straight cutting | | | |
| | Descriptions of all roof coverings are deemed to include for all straight cutting | | | |
| | Profiled metal, fibre-cement, etc sheeting and accessories | | | |
| | Profiled metal, fibre-cement, etc sheeting and accessories shall be fixed strictly in accordance with the manufacturer's instructions | | | |
| | PROFILED METAL SHEETING AND ACCESSORIES | | | |
| | Safintra 0.5mm thick AZ150ZincAl Weldedek profile roof sheeting in single lengths and 0.8mm galvanised accessories, both with clean "Colorbond" finish of approved standard colour on one side and standard grey backing finish on reverse side, fixed to timber purlins all in accordance with the manufacturer's recommendations. | | | |
| 1 | Roof coverings with pitches not exceeding 25 degrees m² | 3 159 | | |
| 2 | Ridge capping 462mm girth, three times bent along girth and notched on site to suit roof profile (Code FS3) m | 259 | | |
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| | Carried to Collection | | R | |
| | Section No. 2 Bill No. 6 | | | |
| | ROOF COVERINGS DEVELOPMENT BANK OF SOUTHERN AFRICA | | | |
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| 3 | Broad flute closers 760mm girth | m | 518 | | |
|---|---|----|-------|---|---|
| | 1.25mm "Modek" IBR profile clear polycarbonate translucent sheeting with 300mm sealed end laps and side laps seam stitched at 500mm centres fixed to steel purlins or rails | | | | |
| 4 | Roof coverings with pitches not exceeding 25 degrees | m² | 93 | | |
| | ROOF AND WALL INSULATION | | | | |
| | "Sisalation F430" heavy industrial grade aluminium foil based insulation | | | | |
| 5 | Insulation laid taut over purlins (at approximately 1 140mm centres) and fixed concurrent with roof covering including galvanized steel straining wires | m² | 2 394 | | |
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| | Bill No. 6 ROOF COVERINGS DEVELOPMENT BANK OF SOUTHERN AFRICA | | | | |
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| Section No. 2 | | | |
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| Section 2 - Repairs and Renovations | | | |
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| | SECTION NO. 2 | | | |
| | BILL NO 7 | | | |
| | CARPENTRY AND JOINERY | | | |
| | (WORK GROUP NO. 126) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | Plate nailed timber roof truss construction | | | |
| | The following is applicable in respect of roof trusses: | | | |
| | Trusses are at maximum 1.25m centres. Roof covering is 0.5mm AZ150Zincal Widedek profile sheeting on 50 x 75mm purlins. Ceilings are 9mm rhinoboard clout nailed to 38 x 50mm brandering. The references given in the descriptions are to the respective types of trusses detailed on the principal agent's drawing numbered 9005-003-BAR-0113- Revision T1 accompanying this document. The dimensions in the descriptions of the trusses are nominal and actual measurements shall be obtained from the principal agent and/or the site before design or fabrication commences | | | |
| | Straight cutting | | | |
| | Descriptions of all boarding, etc shall be deemed to include for all straight cutting | | | |
| | <u>Joinery</u> | | | |
| | Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc | | | |
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| | Carried to Collection Section No. 2 Bill No. 7 CARPENTRY AND JOINERY DEVELOPMENT BANK OF SOUTHERN AFRICA | | R | |
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| | Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes | | | | |
|---|---|----|-------|---|---|
| | <u>Fixing</u> | | | | |
| | Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete | | | | |
| | Decorative laminate finish | | | | |
| | Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish | | | | |
| | PREFABRICATED ROOF TRUSSES, ETC | | | | |
| | The following in plate nailed timber roof trusses with a pitch not exceeding 27,5°, from an approved supplier, delivered to site, hoisted into position, fixed and braced on timber wall plates | | | | |
| 1 | Double pitch timber truss type A, 5.80 x 1.36m high overall with 600mm eaves overhang projection on both sides | No | 18 | | |
| 2 | Double pitch timber truss type B, 7.00 x 1.36m high overall with 600mm eaves overhang projection on both sides | No | 5 | | |
| 3 | Double pitch timber truss type C, 7.00 x 1.36m high overall with 1200mm eaves overhang projection on both sides | No | 4 | | |
| 4 | Double pitch timber truss Type D, 11.00 x 1.36m high overall with 600mm eaves overhang projection on one side and 2100mm at the front side over walkways | No | 174 | | |
| | Sawn softwood grade M4 | | | | |
| 5 | 38 x 76mm Wall plates including bed level in cement mortar | m | 507 | | |
| 6 | 50 x 76mm Purlins | m | 2 558 | | |
| 7 | 50 x 76mm Cross bracing (provisional) | m | 147 | | |
| | | | | | |
| | Section No. 2 Bill No. 7 CARPENTRY AND JOINERY | | | R | + |
| | DEVELOPMENT BANK OF SOUTHERN AFRICA | | | | |

| 8 | 38 x 114mm Longitudinal bracing (provisional) | m | 507 | | |
|----|--|----|-------|---|--|
| 9 | 38 x 152mm Beams, etc bolted | m | 192 | | |
| 10 | 50 x 228mm Beams, etc bolted | m | 225 | | |
| | Wrot softwood Grade M4 | | | | |
| 11 | 38 x 114mm Barge rail | m | 125 | | |
| | ROOF SUNDRIES | | | | |
| 12 | Teco two way hurricane clips between trusses and purlins | No | 2 412 | | |
| 13 | Two coats creosote on sawn timbers | m² | 493 | | |
| 14 | Wrought faces on sawn timbers | m² | 9 | | |
| | EAVES, VERGES, ETC | | | | |
| | "Everite" medium density plain nutec fibre cement | | | | |
| 15 | 12 x 225mm Fascia boards (041-202) including aluminium H-profile jointing strips (685-195) | m | 518 | | |
| 16 | 80 x 200mm Socketless barge boards including aluminium H-profile jointing strips (685-187) | m | 125 | | |
| | SKIRTINGS | | | | |
| | Wrot Meranti | | | | |
| 17 | 19 x 70mm skirting plugged with and including 19mm quadrant bead planted on at junction with floor | m | 985 | | |
| | FRAMED DOORS, ETC. | | | | |
| | All framed and ledged batten doors and combination doors, where battens are utilised, shall only be of construction acceptable to the principal agent, i.e. mortice and tennon where the tennon is exposed on the outside edges of styles and where the tennon is wedged to form a dovetailed shape. | | | | |
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| | Bill No. 7 CARPENTRY AND JOINERY DEVELOPMENT BANK OF SOUTHERN AFRICA | | | | |
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| | Saligna Blaco doors hung to steel frames | | | | |
|----|---|----|-----|---|--|
| 18 | 44mm Framed, ledged and braced batten door 0,81 x 2,03m high of 40 x 110mm top rail and stiles, 20 x 150mm middle ledge, 20 x 225mm bottom rail and 20 x 1110mm braces filled in with 20mm V-jointed one side boarding, 44 x 70mm grooved and splayed weatherboard and 3mm plywood panel to internal face | No | 36 | | |
| | Solid chipcore flush doors with commercial veneer on both sides hung to steel frames | | | | |
| 19 | 40mm Door 0,81 x 2,03m high | No | 10 | | |
| | Wrought meranti doors, etc | | | | |
| 20 | 44mm Framed door 0,81 x 1.60m high of 44 x 144mm top rail and stiles and 44 x 219mm bottom rail in single pane rebated all round, including 19 x 19mm glazing beads on one side | No | 44 | | |
| | FRAMED FRAMES, ETC | | | | |
| | Wrought meranti | | | | |
| 21 | 69 x 107mm Rebated and splayed frames, plugged | m | 141 | | |
| | JOINERY FITTINGS | | | | |
| | <u>General</u> | | | | |
| | The following joinery fittings are measured as complete units i.e. the components of the units are not separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative laminates, silicone pointing against adjacent surfaces, ironmongery, metalwork, glass, paint or varnish finishes, etc | | | | |
| | "Grey Granite" countertops | | | | |
| 22 | To supply and install 30mm counter top size 3070 x 600mm, including cleats and supports | No | 1 | | |
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| | Carried to Collection Section No. 2 Bill No. 7 CARPENTRY AND JOINERY DEVELOPMENT BANK OF SOUTHERN AFRICA | | | R | |
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| | <u>Kitchen cupboards</u> | | | | |
|----|--|----|----|---|--|
| 23 | Purpose made double sink unit overall size 6 000mm long x 600mm wide x 900mm high, comprising of four door and two drawers (sink measured elsewhere) of grey granite counter tops, 18mm melamine ply doors and shelves | No | 2 | | |
| | Shelving: | | | | |
| 24 | 430 x 2 800 x 890mm High melamine clad PG Bison Bison board V313 shelf with impact edging to exposed edges, side panels, white melamine faced masonite back panel including 150mm high plinth as per detail 9005-003-BAR-0114- Revision T1 - Admin & Computer Room above worktops accompanying this document | No | 1 | | |
| 25 | 430 x 6 800 x 1790mm High melamine clad PG Bison Bison board V313 shelf with impact edging to exposed edges, side panels, white melamine faced masonite back panel including 150mm high plinth as per detail 9005-003-BAR-0114- Revision T1 - Admin & Computer Room accompanying this document | No | 1 | | |
| 26 | 430 x 5 245 x 1790mm High melamine clad PG Bison Bison board V313 shelf with impact edging to exposed edges, side panels, white melamine faced masonite back panel including 150mm high plinth as per detail 9005-003-BAR-0114- Revision T1 - Admin & Computer Room accompanying this document | No | 2 | | |
| | NOTICE BOARDS, KEYBOARDS, ETC | | | | |
| | "Flortime Premier" pinning boards | | | | |
| 27 | 9mm Pinning board 4,80 x 1,20m high glued to plastered walls | | | | |
| | plastered walls | No | 26 | | |
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| | BILL NO 8 | | | | |
| | CEILINGS, PARTITIONS AND ACCESS FLOORING | | | | |
| | (WORK GROUP NO. 129) | | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | | |
| | SUPPLEMENTARY PREAMBLES | | | | |
| | <u>Descriptions</u> | | | | |
| | Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete | | | | |
| | Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted", the bolts are measured elsewhere | | | | |
| | NAILED UP CEILINGS | | | | |
| | 9mm Thick "Rhino" gypsum plasterboards in 1,2m wide panels with open joints for and including pre-primed H-section cover strips neatly mitred at intersections | | | | |
| 1 | Ceilings including 38 x 50mm brandering at 400mm centres in one direction securely spiked to roof timbers (elsewhere) | m² | 1 950 | | |
| 2 | Extra over ceilings for 600 x 600mm trap door of 44 x 44mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening | No | 12 | | |
| | CORNICE, ETC | | | | |
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| | Section No. 2 | | | R | |
| | BIII No. 8 CEILINGS, PARTITIONING AND ACCESS FLOORING E DEVELOPMENT BANK OF SOUTHERN AFRICA | | | | |
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Kwazulu Natal Department of Education Asbestos Replacement Prince Dabulamanzi Primary School

| | Rhino" gypsum plasterboard cornices | | | | |
|---|--|----|-------|----|--|
| 3 | 75mm Coved cornices, nailed | m | 1 141 | | |
| | INSULATION | | | | |
| | "Aerolite" insulation | | | | |
| 4 | 50mm Insulation closely fitted and laid on top of brandering between roof timbers, etc | m² | 1 950 | | |
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| | SECTION NO. 2 | | | |
| | BILL NO 9 | | | |
| | FLOOR COVERINGS, PLASTIC LININGS, ETC | | | |
| | (WORK GROUP NO. 130) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | <u>Fixing</u> | | | |
| | Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers | | | |
| | FLOOR COVERINGS | | | |
| | 300 x 300 x 2,5mm "Marleyflex" semi-flexible vinyl tiles | | | |
| 1 | On floors | 1 696 | 5 | |
| | POLISH, SEALERS, ETC | | | |
| | Clean down, seal and apply metallised floor dressing as described | | | |
| 2 | On vinyl flooring | 1 696 | | |
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| | SECTION NO. 2 | | | |
| | BILL NO 10 | | | |
| | IRONMONGERY | | | |
| | (WORK GROUP NO. 132) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | HINGES, BOLTS, ETC | | | |
| | <u>Approved</u> | | | |
| 1 | 100mm Steel hinge No | 180 | | |
| | "Union Assa Abloy" | | | |
| 2 | CZ80941SC bathroom W/C indicator bolt with keep fixed to metal No | 44 | | |
| | LOCKS, ETC | | | |
| | "Union Assa Abloy" | | | |
| 3 | 50mm UN335002006300 padlock No | 37 | | |
| 4 | Solid Art 390/313 four lever mortice lockset with satin chrome plated handles No | 46 | | |
| | DOOR CLOSERS | | | |
| | "Assa Abloy" or other approved | | | |
| 5 | DC200 R&P closer EN2 -4SIL No | 4 | | |
| | <u>SIGNAGE</u> | | | |
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| | Approved | | | | |
|----|---|----|-----|---|--|
| 6 | 290 x 290mm GA11 Male sign | No | 4 | | |
| 7 | 290 x 290mm GA11 Female sign | No | 4 | | |
| 8 | 290 x 290mm GA22 Paraplegic toilet sign | No | 4 | | |
| 9 | 290 x 290mm FB1 Direction sign | No | 6 | | |
| 10 | 290 x 290mm FB2 Fire extinguisher sign | No | 6 | | |
| 11 | 290 x 290mm FB3 Fire hose sign | No | 5 | | |
| 12 | 290 x 290mm GA3/GA4 running man sign | No | 6 | | |
| 13 | 290 x 290mm GA33 exit sign | No | 6 | | |
| 14 | 38mm High plastic letter or numeral | No | 21 | | |
| 15 | 50 x 400 x 3mm Thick perspex plate with nine 40mm high engraved and painted letters or numerals | No | 6 | | |
| | BATHROOM FITTINGS | | | | |
| | "Serra" stainless steel | | | | |
| 16 | TR2 SD1310 toilet roll holder, plugged | No | 44 | | |
| 17 | SD1226 soap dispenser, plugged | No | 8 | | |
| 18 | SD1127 wall bin, plugged | No | 8 | | |
| | SUNDRIES | | | | |
| | "Assa Abloy" or other approved | | | | |
| 19 | RH7024 ART 500B30 Patent screws and nuts | No | 32 | | |
| 20 | 87001SS Floor door stop satin SS | No | 128 | | |
| 21 | SS8025SS Hat and Coat Hook with buffer | No | 44 | | |
| | Carried to Collection Section No. 2 Bill No. 10 IRONMONGERY DEVELOPMENT BANK OF SOUTHERN AFRICA | | | R | |

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| | "Vaa " or other approved | | | | | |
| 22 | VAA-DL2 300 x 300 x 300mm grab rail | No | 4 | | | |
| 23 | VAA-SR2A 670 x 246mm grab rail | No | 4 | | | |
| | STEEL LOCKERS | | | | | |
| | 'Castor & Ladder' or other approved 6 x 3 steel stationery cupboards in Ivory Karoo finish or other approved | | | | | |
| 24 | Cupboard size 1800 x 900mm x 450mm high with 4 adjustable shelved (Code CU10) | No | 36 | | | |
| | PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC | | | | | |
| | Wall mounted vitreous enamel writing boards as SANS CKS-2014 | | | | | |
| 25 | 'Vitrex' Model 2100 standard vitreous enamelled wall mounted writing board overall size 4800 x 1000mm high comprising two boards ref. no. 2205, each size 2400 x 1000mm high overall complete with intergrated chalkrail along bottom and fixed to existing plastered brick wall | No | 24 | | | |
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| | SECTION NO. 2 | | | |
| | BILL NO 11 | | | |
| | <u>METALWORK</u> | | | |
| | (WORK GROUP NO. 136) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | <u>Descriptions</u> | | | |
| | Descriptions of bolts shall be deemed to include nuts and washers | | | |
| | Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete | | | |
| | Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described | | | |
| | GALVANISED STEEL WORK | | | |
| | Welded and bolted handrails | | | |
| 1 | 51 x 2mm x 2.42kg/m Circular hollow section continuous rails | n 35 | | |
| 2 | Extra over for rounded closed end | o 1 | | |
| 3 | Extra over for bend to 50mm internal radius | 0 1 | | |
| 4 | L-shaped bracket formed of 16mm round 200mm girth, once bent to 50mm internal radius, with one end welded to rail and other end welded to and including 75mm diameter x 6mm thick plate twice holed for bolts | o 1 | | |
| | Carried to Collection Section No. 2 Bill No. 11 | | R | |
| | METALWORK DEVELOPMENT BANK OF SOUTHERN AFRICA | | | |

| 5 | "Hilti" HLC 12 x 55/15 expansion anchor and bolt | No | 140 | | |
|----|---|----|-------|---|--|
| | Welded portal columns in single lengths with flat base, top, bearer and connection plates | | | | |
| 6 | PC100 x 50mm x 10.1kg/m Channel posts 2.10m high with 100 x 6mm x 5.18kg/m flat bar base plate 100mm long twice holed for bolts and welded on | kg | 1 654 | | |
| 7 | PC100 x 50mm x 10.1kg/m Channel beams 2.10m long welded on | kg | 827 | | |
| 8 | Extra over for mitred L-intersection | No | 78 | | |
| 9 | 50 x 6mm x 2.36kg/m Flat bar cleat 150mm girth, once bent across flat, once holed for bolt and welded on | No | 78 | | |
| 10 | "Hilti" HLC 16 x 60/10 expansion anchor and bolt | No | 78 | | |
| | Roof brackets, etc | | | | |
| 11 | U-shaped bracket formed of 40 x 6mm x 2.12kg/m flat bar 350mm girth, twice bent across flat and twice holed for bolts (bolts elsewhere) | No | 77 | | |
| 12 | U-shaped bracket formed of $40 \times 6 \text{mm} \times 2.12 \text{kg/m}$ flat bar 700mm girth, twice bent across flat and twice holed for bolts (bolts elsewhere) | No | 182 | | |
| 13 | Bolts | kg | 14 | | |
| | GALVANISED STEEL SCREENS AND GATES | | | | |
| | Welded and bolted safe storage screens and gates | | | | |
| 14 | $50 \times 50 \times 3 \text{mm}$ cold rolled angle section bearer welded to lug and built in | m | 190 | | |
| 15 | Extra for mitred and welded angle | No | 74 | | |
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| | Carried to Collection | | | R | |
| | Section No. 2 Bill No. 11 METALWORK DEVELOPMENT BANK OF SOUTHERN AFRICA | | | K | |

| 16 | Single gate size 0.97 x 2.25m high formed of 50 x 50 x $2.0 \text{mm} \times 3.03 \text{kg/m}$ square hollow section frame, and gate formed of 60 x 60 x 2mm rectangular tube framing all round mitred and welded at angles with two 40 x 6mm flat section horizontal intermediate rails with ends welded to framing and with five 19mm diameter rod vertical bars framed through intermediate rails with ends welded to framing, fitted with a pair of suitable hinges bolted to wall with and including two 16mm expansion bolts and the gate with hasp and staple and 12mm drop bolt welded on (Padlock measured elsewhere) | No | 36 | | |
|----|--|----|----|---|---|
| 17 | Double gate 1.66 x 2.25m high, each leaf of 50 x 50 x 2.0mm x 3.03kg/m square hollow section frame and 75 x 25 x 2.0mm x 3.03kg/m rectangular hollow section horizontal middle rail, filled in with 25 x 25 x 2.0mm x 1.47kg/m square hollow section vertical pales at 150mm centres, fitted with a pair of suitable hinges bolted to wall with and including two 16mm expansion bolts and the gate with hasp and staple and 12mm drop bolt welded on (Padlock measured elsewhere) | No | 1 | | |
| | GALVANISED STEEL FLOORS, ETC | | | | |
| | Floor duct covers | | | | |
| 18 | 420mm Wide rectagrid type RS 40 with 50 x 4.5 banding and 60 x 4mm thick angles with metal lugs every 500mm centres | m | 42 | | |
| | HOT DIPPED GALVANIZED PRESSED STEEL DOOR FRAMES | | | | |
| | 1,2mm Rebated frames suitable for half brick walls | | | | |
| 19 | Frame for door 813 x 2032mm high | No | 10 | | |
| | 1,2mm Double rebated frames suitable for one brick walls | | | | |
| 20 | Frame for door 813 x 2032mm high | No | 36 | | |
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| | Carried to Collection Section No. 2 | | | R | + |
| | Bill No. 11 METALWORK DEVELOPMENT BANK OF SOUTHERN AFRICA | | | | |
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| | HOT DIP GALVANISED STEEL WINDOWS, DOORS, ETC. | | | | |
|----|--|----|-----|---|--|
| | A sample window shall be submitted for approval prior to placing the complete order | | | | |
| | Standard windows with heavy duty solid brass ironmongery with opening sections fitted with standard burglar bars | | | | |
| 21 | Window type D4H, 1511 x 1245mm high | No | 3 | | |
| 22 | Window type D52H, 1022 x 1540mm high | No | 167 | | |
| 23 | Window type D22H 2000 x 1245mm high | No | 2 | | |
| 24 | Window type D1H 533 x 1245mm high | No | 1 | | |
| 25 | Window type ZNE1 654 x 654mm high | No | 1 | | |
| 26 | Window type E6F 305 x 680mm high | No | 48 | | |
| 27 | Window type C2 1020 x 949mm high | No | 1 | | |
| 28 | Window type 2BH 1143 x 457mm high | No | 14 | | |
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| | Section No. 2 Bill No. 11 METALWORK DEVELOPMENT BANK OF SOUTHERN AFRICA | | | | |

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| | SECTION NO. 2 | | | | |
| | BILL NO 12 | | | | |
| | DI ACTEDINO | | | | |
| | PLASTERING | | | | |
| | (WORK GROUP NO. 142) | | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | | |
| | SUPPLEMENTARY PREAMBLES | | | | |
| | <u>PLASTER</u> | | | | |
| | <u>Finish</u> | | | | |
| | Internal plaster shall be finished with a steel trowel and external plaster with a wooden float | | | | |
| | SCREEDS | | | | |
| | Screeds on concrete | | | | |
| 1 | 25mm Thick on floors and landings | m² | 2 376 | | |
| 2 | 30mm Thick on narrow widths | m² | 23 | | |
| | INTERNAL PLASTER | | | | |
| | Cement plaster class II on masonry | | | | |
| 3 | On walls | m² | 44 | | |
| 4 | On narrow widths | m² | 66 | | |
| | Cement plaster class II on concrete | | | | |
| 5 | On ceilings | m² | 14 | | |
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| | Carried to Collection Section No. 2 | | | R | |
| | Bill No. 12 PLASTERING | | | | |
| | DEVELOPMENT BANK OF SOUTHERN AFRICA | | | | |
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| | EXTERNAL PLASTER | | | | |
|---|--|----|-----|---|--|
| | Cement plaster class II on masonry | | | | |
| 6 | On walls | m² | 207 | | |
| 7 | On narrow widths | m² | 11 | | |
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| | PLASTERING DEVELOPMENT BANK OF SOUTHERN AFRICA | | | | |
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| Section No. 2 | | | | |
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| | SECTION NO. 2 | | | |
| | BILL NO 13 | | | |
| | <u>TILING</u> | | | |
| | (WORK GROUP NO. 144) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | <u>Fixing</u> | | | |
| | Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat | | | |
| | Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles | | | |
| | <u>Descriptions</u> | | | |
| | Descriptions of tiling shall be deemed to include for symmetrical arrangement of tiling with cutting along both sides of panels and for all straight cutting | | | |
| | Descriptions of tiling shall be deemed to include for cutting and fitting around all sanitary ware and pipes, etc not exceeding 150mm diameter | | | |
| | Descriptions of tiling shall be deemed to include for soft grouted joints at positions of joints in the substructure or at centres in both directions as recommended by the tile manufacturers or which represents good practice | | | |
| | WALL TILING | | | |
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| | Tiling DEVELOPMENT BANK OF SOUTHERN AFRICA | | | |
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| | 200 x 200mm "Johnson" matt white ceramic tiles fixed with adhesive to plaster (plaster elsewhere) on | | | | |
|---|---|----|-----|----|--|
| 1 | Walls | m² | 25 | | |
| 2 | Walls in isolated panels, splashbacks, etc not exceeding 1m² | m² | 18 | | |
| | FLOOR TILING | | | | |
| | 600 x 600 x 8mm "Spectiles Ref. 55174" polished porcelain tiles with tinted jointing compound and fixed with adhesive to power floated floors or screeds (power floated floors or screeds elsewhere) on | | | | |
| 3 | Floors and landings | m² | 205 | | |
| 4 | Circular cutting | m | 42 | | |
| 5 | 100mm High skirting of cut tiles | m | 407 | | |
| | EDGE TRIMS, NOSINGS, ETC | | | | |
| | <u>"M-Trim"</u> | | | | |
| 6 | 7mm "PRE070.01" PVC round edge trims | m | 10 | | |
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| | Bill No. 13 Tiling | | | | |
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| | SECTION NO. 2 | | | |
| | BILL NO 14 | | | |
| | PLUMBING AND DRAINAGE | | | |
| | (WORK GROUP NO. 148) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | Wire gratings | | | |
| | Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings | | | |
| | Rock excavations | | | |
| | No claim for rock excavation will be entertained unless the contractor has timeously notified the principal agent thereof prior to backfilling | | | |
| | "Soft rock" and "hard rock" shall be as defined in "Earthworks" | | | |
| | Laying, backfilling, bedding, etc of pipes | | | |
| | Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions | | | |
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| | Section No. 2 Bill No. 14 | | | |
| | PLUMBING AND DRAINAGE DEVELOPMENT BANK OF SOUTHERN AFRICA | | | |
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| Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: | | |
|--|---|---|
| SANS 1200 L : Medium-pressure pipelines, SANS 1200 LD : Sewers and SANS 1200 LE : Stormwater drainage | | |
| Pipe trenches, etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SANS 1200 DB : Earthworks (Pipe trenches) | | |
| Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SANS 1200 LB: Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding | | |
| uPVC pipes and fittings | | |
| Drainage pipes and fittings shall be jointed and sealed with butyl rubber rings | | |
| Sanitary plumbing pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings | | |
| Gratings, covers, etc | | |
| Gratings, covers, etc shall be as manufactured by "Saint-Gobain", unless otherwise described | | |
| <u>French drains</u> | | |
| Descriptions of french drains shall be deemed to include for battered sides and sloping bottoms with inlet chamber size 300 x 300mm internally under inlet pipe, from bottom of drain to top of pipe, formed of loosely packed, rough, hard stone walls and covered with precast concrete slab size 600 x 600 x 100mm thick and the rest of the drain filled in to the same height with similar stone graded from 300mm diameter at bottom to 50mm diameter at top, covered with galvanised corrugated iron sheets treated on both sides with bituminous paint and 300mm earthfilling over | | |
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| uPVC pressure pipes and fittings | | |
|--|---|--|
| Pipes for water supply shall be of the class described | | |
| Pipes of 42mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings | | |
| Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints | | |
| Copper pipes | | |
| Pipes shall be hard drawn and half-hard pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016 | | |
| Fixing of pipes | | |
| Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for : - casting in, building in, chasing in and fixing to walls, etc, including chasing; or - placing in ground or filling under solid floors, including necessary excavation, backfilling and ramming; or - suspending not exceeding 1m below suspension level | | |
| Reducing fittings | | |
| Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm, only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm, all sizes are given and no claim for extra bushes, reducers, etc will be entertained | | |
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| Stainless steel basins, sinks, wash troughs, urinals, etc | | |
|--|---|---|
| Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be type 304 (18/8) | | |
| <u>Flush pans</u> | | |
| Flush pans shall have straight or side outlets and "P" or "S" traps as necessary | | |
| Geyser installations | | |
| Geyser installations shall comply with SANS 10254 | | |
| <u>General</u> | | |
| Descriptions of pipes laid in and including trenches, sumps, catchpits, junction boxes, inspection chambers, french drains, septic tanks and the like shall be deemed to include for excavations, bedding of pipes, risk of collapse, keeping free of water, a dewatering system for removal of seepage water and water from other subterranean sources in the excavations designed and executed by the contractor, backfilling, compaction to a minimum of 93% modified AASHTO density and disposal of surplus material | | |
| Descriptions of sumps, catchpits, junction boxes, inspection chambers and the like shall be deemed to include reinforcement, step irons and channels where applicable | | |
| Descriptions for jointing of new to existing pipes shall be deemed to include searching for the existing pipe, exposing if necessary, cutting into, jointing and necessary fittings | | |
| Descriptions of all sanitary fittings shall be deemed to include for silicone sealant pointing between the fittings and finished wall surfaces | | |
| Descriptions of copper service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to pipes | | |
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| | Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends | | | | |
|---|--|----|-----|---|--|
| | RAINWATER DISPOSAL | | | | |
| | "Marley Vynadeep" uPVC | | | | |
| 1 | 110mm Half round eaves gutters | m | 655 | | |
| 2 | Extra over for stopped end | No | 39 | | |
| 3 | Extra over for outlet for 75mm diameter pipe | No | 68 | | |
| 4 | 75mm Diameter rainwater pipes | m | 219 | | |
| 5 | Extra over for bend | No | 136 | | |
| 6 | Extra over for shoe | No | 68 | | |
| | (WORK GROUP NO 110) | | | | |
| | STORMWATER CHANNELS | | | | |
| | In-situ concrete channels | | | | |
| 7 | Concrete 20MPa/19mm, Ref. 193 mesh reinforcement, in-situ "V"-shaped open surface water channel 900mm wide with minimum 75mm thickness in the centre and 100mm at the edges to from a 25mm deep dish, cast to falls in lengths not exceeding 2000mm, jointed in 3:1 cement mortar finished smooth with a wood float on all exposed surfaces including all necessary shallow excavation, well ramming ground under, spreading and levelling surplus excavated material and formwork | m | 699 | | |
| 8 | Extra over 900mm "V"-shaped channel for angles, intersections and ends | No | 56 | | |
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| 9 | Triangular shaped concrete spill basin size 900mm at head, 1500mm at base end and 1500mm long, formed of 200mm thick concrete base with concrete upstand size 100 x 100mm high along two sides including all excavations, formwork and backfilling, the top of the base inlaid with sixteen concrete bricks protruding 50mm above the surface of the concrete and loose stones of 100 to 150mm diameter at the base of the spill basin for a width of 500mm SLEEVES FOR ELECTRICAL AND TELEPHONE CABLES Class 6 modified uPVC pipes, including 1.6mm galvanised steel draw wires | No | 6 | | |
|----|--|----|----|---|--|
| 10 | 110mm Pipes laid in and including trenches not exceeding 1m deep | m | 68 | | |
| 11 | Set of two 110mm pipes laid in and including trenches not exceeding 1m deep | m | 68 | | |
| | Extra over class 6 modified uPVC pipes for modified uPVC fittings | | | | |
| 12 | 110mm 45 Degree bend | No | 3 | | |
| 13 | 110mm 90 Degree bend | No | 2 | | |
| | Inspection chambers (covers elsewhere) | | | | |
| 14 | Inspection chamber 900 x 900mm and not exceeding 0.75m deep internally | No | 4 | | |
| | <u>Cast iron covers</u> | | | | |
| 15 | 600 x 600mm x 82kg Type 9B single seal cover and frame | No | 4 | | |
| | SOIL DRAINAGE | | | | |
| | Class 34 uPVC pipes | | | | |
| 16 | 110mm Pipes vertically or ramped to rodding eyes, etc (no excavations) | m | 51 | | |
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| 17 | 110mm Pipes laid in and including trenches not exceeding 1m deep | m | 102 | | |
|----|---|----|-----|---|--|
| 18 | 110mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep | m | 8 | | |
| | Extra over class 34 uPVC pipes for uPVC fittings | | | | |
| 19 | 110mm Bend | No | 51 | | |
| 20 | 110mm Junction | No | 51 | | |
| 21 | 110mm Access pipe | No | 51 | | |
| 22 | 110mm Access bend | No | 51 | | |
| | uPVC gulleys | | | | |
| 23 | 110mm Gulley not exceeding 0.75m deep | No | 7 | | |
| | Inspection chambers (covers elsewhere) | | | | |
| 24 | Inspection chamber 450 x 600mm and exceeding 0.75m and not exceeding 1.00m deep internally | No | 9 | | |
| | "National Manhole Covers" polymer concrete covers | | | | |
| 25 | 450 x 600mm x 63kg Heavy duty cover and frame | No | 9 | | |
| | <u>Sundries</u> | | | | |
| 26 | Excavate for, locate, take up and remove 110mm soil drain pipes not exceeding 1m deep, including backfilling, ramming, etc | m | 33 | | |
| 27 | Concrete encasing to 110mm horizontal pipes | m | 4 | | |
| 28 | 110mm uPVC "ABC" cleaning eye | No | 7 | | |
| 29 | Cut into side of existing inspection chamber for and connect 110mm pipe, including inserting 110mm channel junction and making good concrete benching | No | 1 | | |
| | Carried to Collection Section No. 2 Bill No. 14 PLUMBING AND DRAINAGE DEVELOPMENT BANK OF SOUTHERN AFRICA | | | R | |

| 30 | Allow for unblock of sewer line along length of the sewer on site as per areas identifies during construction to the approval of the principal agent | m | 10 | | |
|----|---|----|------|---|--|
| 31 | Allow for unblocking drain traps, etc as identifies during construction to the approval of the principal agent | No | 4 | | |
| 32 | Allow for testing of all the above mentioned items as described to the complete satisfaction of the Principal Agent and for replacing any defective work at the Contractor's expense and re-testing until found to be perfect | | Item | | |
| | SANITARY PLUMBING | | | | |
| | uPVC pipes | | | | |
| 33 | 50mm Pipes | m | 14 | | |
| 34 | 110mm Pipes | m | 75 | | |
| | Extra over uPVC pipes for fittings | | | | |
| 35 | 50mm Stop end | No | 8 | | |
| 36 | 50 x 32mm BSP adaptor | No | 8 | | |
| 37 | 110 x 50mm Eccentric reducer | No | 8 | | |
| 38 | 50mm Bend | No | 34 | | |
| 39 | 50mm Junction | No | 6 | | |
| 40 | 110 x 50mm Reducing junction | No | 1 | | |
| 41 | 50mm Access bend | No | 16 | | |
| 42 | 50mm Access junction | No | 17 | | |
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| | PLUMBING AND DRAINAGE DEVELOPMENT BANK OF SOUTHERN AFRICA | | | | |
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| | Sundries | | | | |
|----|---|----|------|---|--|
| 43 | Allow for testing of all the above mentioned items as described to the complete satisfaction of the Principal Agent and for replacing any defective work at the Contractor's expense and re-testing until found to be perfect | | Item | | |
| | WATER SUPPLIES | | | | |
| | Class 10 HDPE pipes | | | | |
| 44 | 32mm Pipes laid in and including trenches | m | 15 | | |
| | Class 16 modified uPVC pipes | | | | |
| 45 | 50mm Pipes laid in and including trenches | m | 22 | | |
| | Extra over class 16 modified uPVC pipes for modified uPVC fittings | | | | |
| 46 | 50mm 45 Degree bend | No | 8 | | |
| | Extra over class 16 modified uPVC pipes for SG iron fittings | | | | |
| 47 | 50mm Flanged adaptor drilled to table 16, including connecting bolts, gaskets, etc | No | 6 | | |
| 48 | 50mm Equal tee | No | 4 | | |
| | Class 1 copper pipes | | | | |
| 49 | 15mm Pipes | m | 6 | | |
| 50 | 22mm Pipes | m | 96 | | |
| 51 | 28mm Pipes | m | 8 | | |
| | Extra over class 1 copper pipes for capillary fittings | | | | |
| 52 | 15mm Fittings | No | 21 | | |
| 53 | 22mm Fittings | No | 64 | | |
| | | | | | |
| | Carried to Collection | | | R | |
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| 54 | 28mm Fittings | No | 13 | | |
|----|---|----|------|---|--|
| | Extra over class 1 copper pipes for brass compression fittings | | | | |
| 55 | 15mm Fittings | No | 58 | | |
| 56 | 22mm Fittings | No | 128 | | |
| 57 | 28mm Fittings | No | 13 | | |
| | Sundries | | | | |
| 58 | Unreinforced concrete thrust blocks at bends, tees, etc, including necessary extra excavation, formwork, etc | m³ | 2 | | |
| 59 | 150 x 150mm Type 11A cast iron stopcock box, including brick chamber below not exceeding 0.50m deep internally | No | 1 | | |
| 60 | 300 x 200mm Type 10A cast iron meter box, including brick chamber below not exceeding 0.50m deep internally | No | 1 | | |
| 61 | 450 x 450mm Valve chamber not exceeding 0.75m deep internally (cover and frame elsewhere) | No | 1 | | |
| 62 | 450 x 450 x 28.5kg Type 14B cast iron cover and frame | No | 1 | | |
| 63 | Check and clean drinking stand pipes including servicing/ replacement of taps | No | 1 | | |
| 64 | Allow for testing of all the above mentioned items as described to the complete satisfaction of the Principal Agent and for replacing any defective work at the Contractor's expense and re-testing until found to be perfect | | Item | | |
| | WATER SUPPLIES TO FIRE APPLIANCES | | | | |
| | Class 16 modified uPVC pipes | | | | |
| 65 | 110mm Pipes laid in and including trenches | m | 25 | | |
| | Carried to Collection Section No. 2 Bill No. 14 PLUMBING AND DRAINAGE DEVELOPMENT BANK OF SOUTHERN AFRICA | | | R | |

| | Extra over class 16 modified uPVC pipes for modified uPVC fittings | | | | |
|----|---|----|-----|---|--|
| 66 | 110mm 90 Degree bend | No | 5 | | |
| | Extra over class 16 modified uPVC pipes for SG iron fittings | | | | |
| 67 | 110mm End cap | No | 5 | | |
| 68 | 110mm Equal tee | No | 3 | | |
| | Black medium quality (SANS 62/BS 1387) mild steel pipes with one coat factory applied red oxide primer and one final coat of red gloss enamel paint | | | | |
| 69 | 40mm Pipe | m | 6 | | |
| | Extra over black medium quality (SANS 62/BS 1387) mild steel pipes for steel fittings, including one coat factory applied red oxide primer and one final coat of red gloss enamel paint | | | | |
| 70 | 100 x 40mm Reducing tee | No | 5 | | |
| | Class 1 copper pipes | | | | |
| 71 | 42mm Pipes laid in and including trenches | m | 2 | | |
| | Extra over class 1 copper pipes for brass compression fittings | | | | |
| 72 | 42mm Tee | No | 5 | | |
| | Sundries | | | | |
| 73 | Unreinforced concrete thrust blocks at bends, tees, etc, including necessary extra excavation, formwork, etc | m³ | 0.4 | | |
| 74 | 225 x 225mm Type 11B cast iron stopcock box, including brick chamber below not exceeding 0.50m | | | | |
| | deep internally | No | 1 | | |
| 75 | 375 x 300mm Type 10C cast iron meter box, including brick chamber below not exceeding 0.50m deep | | | | |
| | internally | No | 1 | | |
| | | | | | |
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| 76 | 450 x 450mm Valve chamber not exceeding 0.75m | | | | |
|----|--|----|------|---|--|
| | deep internally (cover and frame elsewhere) | No | 1 | | |
| 77 | 450 x 450mm x 28.5kg Type 14B cast iron cover and frame | No | 1 | | |
| 78 | Allow for testing of all the above mentioned items as described to the complete satisfaction of the Principal Agent and for replacing any defective work at the Contractor's expense and re-testing until found to be perfect | | Item | | |
| | SANITARY FITTINGS | | | | |
| | "Franke" stainless steel | | | | |
| 79 | "Trendline 721" double end bowl sink $1.20 \times 0.54m$ wide, on cupboard (cupboard elsewhere) | No | 2 | | |
| 80 | Model WB001 wash hand basin with tiling key | No | 4 | | |
| 81 | Model WB003 range of three wash hand basins | No | 8 | | |
| | 'Franke (t/a Citimetal)' grade 304 (18/10) stainless steel Urinals | | | | |
| 82 | 'Franke purpose made TU101' curved back urinal 5360mm wide to fit between walls, and tiling key to back and both ends, with and including four concealed sparge pipe with four flushpipe coupling and 70mm diameter end outlet with grating complete with built in flushing tank, 12mm adjustable dripcock, brass "P" trap and hinged domical grating. | No | 4 | | |
| | <u>"Vaal"</u> | | | | |
| 83 | VAA-702303 "Hibiscus wall hung basin with fixations VAA-8448Z0 | No | 1 | | |
| 84 | VAA-431500 "Parktown" top inlet pan | No | 46 | | |
| 85 | "Protea" low level paraplegic suite comprising washdown pan and 9 litre cistern with side-flush lever | No | 1 | | |
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| 86 | "Orchid" top inlet wall hung washdown pan with cradle bracket and legs (flush valve elsewhere) | No | 4 | | | |
|----|---|----|---|---|---|--|
| 87 | VAA-705127 "Sweetpea BI" back inlet wall hung bowl urinal with grating | No | 1 | | | |
| | "Libra" | | | | | |
| 88 | 1.70m Long "Capri" acrylic bath | No | 1 | | | |
| | TANKS, ETC | | | | | |
| | "JoJo" polyethylene | | | | | |
| 89 | 5000 Litre "Jojo" low profile rainwater tank complete with access lid with inlet hole placed in position on concrete slab and anchored with and including four 7mm diameter galvanized steel chain anchors fitted into garden hose protective sleeves with top end of chain secured to tank and bottom end secured to and including 10mm diameter x 650mm girth U-shaped high tensile steel securing lugs, bent to detail and cast in to concrete plinth. Tank to be filled to half before being built in | No | 6 | | | |
| 90 | Outlet union for 50mm uPVC pipe, including hole | | | | | |
| | through tank | No | 6 | | | |
| | ELECTRIC WATER HEATERS | | | | | |
| | "Kwikot" | | | | | |
| 91 | 150 Litre "600 Dual" standard floor/wall mounted electric water heater | No | 1 | | | |
| 92 | "Kwiktray" horizontal polyethylene drip tray for 150 liter geyser with outlet, including timber bearers | No | 1 | | | |
| | <u>"Zip"</u> | | | | | |
| 93 | 5 Litre "Hydroboil" white epoxy powder coated instant boiling water unit, including "Adapatap SO-4" overflow for installation onto sink with C-13-350 flexible connector | No | 1 | | | |
| | TAPS, VALVES, ETC | | | | | |
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| | "Geberit Mepla" | | | | |
|-----|--|----|----|---|--|
| 94 | 20mm Ball valve with lever | No | 1 | | |
| | "Cobra Watertech" | | | | |
| 95 | 22mm 1003/125 Gate valve | No | 64 | | |
| 96 | 15mm 832/350F Angle valve with 350mm flexible hose connector | No | 29 | | |
| 97 | 15mm 111CP "Star" pillartap | No | 24 | | |
| 98 | 15mm 505-21CP Medical elbow action pillartap | No | 4 | | |
| 99 | 15mm 166/041CP "Star" wall type sink mixer | No | 2 | | |
| 100 | 20mm 060CP Wall type bath outlet with wall flange | No | 1 | | |
| 101 | 15mm 028CP Overhead shower arm | No | 1 | | |
| 102 | 22mm Geyser installation pack of PA3.332 "Masterflo 1" 400kPa pressure control valve, 131-22 stoptap and two PB6.303 vacuum breakers | No | 1 | | |
| 103 | 20mm FJ2.210CP "Junior Flushmaster" exposed top entry toilet flushvalve | No | 46 | | |
| 104 | 32mm FM1.100CP "Flushmaster" exposed back entry toilet flushvalve | No | 5 | | |
| | WASTE UNIONS, ETC | | | | |
| | "Cobra Watertech" | | | | |
| 105 | 32mm 320CP bath overflow union | No | 25 | | |
| 106 | 32mm 303CP basin waste union with 309-32CP anti- theft plug | No | 29 | | |
| 107 | 40mm 316CP bath or sink waste union | No | 1 | | |
| | TRAPS, ETC | | | | |
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| | <u>"Flexitrap" rubber</u> | | | | |
|-----|---|----|----|---|--|
| 108 | 32mm Plain "P" or "S" trap | No | 29 | | |
| 109 | 40mm Plain "P" or "S" trap | No | 2 | | |
| 110 | 40mm Plain bath combination trap with overflow outlet and pipe | No | 1 | | |
| 111 | 40 x 300mm Double bowl wash trough or sink combination with "P" trap | No | 8 | | |
| | "Cobra Watertech" | | | | |
| 112 | 75mm VA3.113CP urinal domical grating | No | 4 | | |
| 113 | 32mm 345/40CP bottle trap | No | 1 | | |
| | FIRE APPLIANCES, ETC | | | | |
| | "Chubb" | | | | |
| 114 | "Everyway" hose reel complete with 30m hose, chromium plated stopcock, shut-off nozzle and wall bracket | No | 5 | | |
| 115 | 4.5kg Dry chemical powder fire extinguisher on and including a painted backing board | No | 6 | | |
| | "Woodlands Fire" | | | | |
| 116 | 100mm "WHE" hydrant, including flanges, 100mm duck foot bend, bolts, gaskets, etc | No | 2 | | |
| 117 | 100mm "WNV" flanged non-return valve | No | 2 | | |
| | "Kevcor" plastic fire boxes | | | | |
| 118 | FB9 fire extinguisher box | No | 6 | | |
| 119 | HR hose reel box | No | 5 | | |
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| | Fire hydrant pedestals | | | | | |
| 120 | Unreinforced concrete hydrant pedestal 900mm high cast around vertical pipe with bottom 300mm below ground, 300 x 300mm square at base and tapering to octagonal shaped top 200 x 200mm overall, including necessary excavation, formwork and two coats paint to exposed surfaces | No | 2 | | | |
| | AS-BUILT DRAWINGS | | | | | |
| | | | | | | |
| 121 | Allow for an updated set of as-built drawings to be handed to the principal agent at completion of the contract | | Item | | | |
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| <u>GLAZING</u> | | | |
| (WORK GROUP NO. 150) | | | |
| The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| GLAZING TO STEEL WITH PUTTY | | | |
| 4 mm Patterned Pacific obscure glass | | | |
| Panes not exceeding 0.1m2 m² | 8 | | |
| 6,38mm Laminated safety glass | | | |
| Panes exceeding 0,1m2 and not exceeding 0,5m2 m ² | 283 | | |
| GLASS TOPS, SHELVES, DOORS, MIRRORS, ETC | | | |
| 5mm "Images" silver mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in walls | | | |
| Mirror 600 x 950mm high with four screws | 29 | | |
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| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) GLAZING TO STEEL WITH PUTTY 4 mm Patterned Pacific obscure glass Panes not exceeding 0.1m2 m² 6.38mm Laminated safety glass Panes exceeding 0,1m2 and not exceeding 0,5m2 m² GLASS TOPS, SHELVES, DOORS, MIRRORS, ETC 5mm "Images" silver mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in walls Mirror 600 x 950mm high with four screws No Carried Forward to Final Summary Section No. 2 Bill No. 15 GLAZING | (WORK GROUP NO. 150) The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) GLAZING TO STEEL WITH PUTTY 4 mm Patterned Pacific obscure glass Panes not exceeding 0.1m2 m² 8 6.38mm Laminated safety glass Panes exceeding 0,1m2 and not exceeding 0,5m2 m² 283 GLASS TOPS, SHELVES, DOORS, MIRRORS, ETC 5mm "Images" silver mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in walls Mirror 600 x 950mm high with four screws No 29 Carried Forward to Final Summary Section No. 2 Bill No. 15 GLAZING | (WORK GROUP NO. 150) The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) GLAZING TO STEEL WITH PUTTY 4 mm Patterned Pacific obscure glass Panes not exceeding 0.1m2 m² 8 6.38mm Laminated safety glass Panes exceeding 0,1m2 and not exceeding 0,5m2 m² 283 GLASS TOPS, SHELVES, DOORS, MIRRORS, ETC 5mm "Images" silver mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in walls Mirror 600 x 950mm high with four screws No 29 Carried Forward to Final Summary R Section No. 2 Bill No. 15 GLAZING |

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| | PAINTWORK | | | |
| | (WORK GROUP NO. 152) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | <u>Descriptions</u> | | | |
| | Descriptions of paintwork shall be deemed to include for all cutting in | | | |
| | PREPARATORY WORK TO EXISTING WORK | | | |
| | Plaster or concrete surfaces | | | |
| | Surfaces shall be thoroughly cleaned down by high pressure water jet and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed. All existing walls to be made good where damaged by removals, furniture, etc, and all screw and nail holes and cracks shall be opened, primed with plaster primer, filled with a suitable filler and finished smooth | | | |
| | Metal surfaces | | | |
| | Surfaces shall be thoroughly rubbed and cleaned down by means of grit blasting or wire brushing. Blistered or peeling paint, including all traces of corrosion, shall be completely removed down to bare metal | | | |
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| | Previously painted wood surfaces | | | | | |
|---|---|----|----|----|---|---|
| | Surfaces shall be thoroughly cleaned down by scraping and sanding all loose and flaking paint. All dust and surface contamination are to be removed by wiping down. All exposed nail heads are to be punched in and primed with one coat metal primer. Holes, cracks and crevices shall be primed with wood primer, filled with wood stopping and finished smooth | | | | | |
| | Previously varnished/natural wood surfaces | | | | | |
| | Surfaces shall be thoroughly cleaned down with existing coatings removed by sanding and/or using paint remover. All residual paint remover and surface contamination are to be removed by washing down, allowed to dry and sandpapered to a uniformed surface. All exposed nail heads are to be punched in and primed with one coat metal primer. Holes, cracks and crevices shall be treated with woodcare pretreatment, filled with wood stopping and finished smooth | | | | | |
| | COLOURS | | | | | |
| | Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards | | | | | |
| | PAINTWORK, ETC TO NEW WORK ON | | | | | |
| | SMOOTH PLASTER OR CONCRETE SURFACES WITH | | | | | |
| | One coat alkali resistant plaster primer and two coats superior matt acrylic paint on | | | | | |
| | Internal walls | m² | 44 | | | |
| 2 | Extra over for paintwork on components in the "Pastel" colour group for paintwork in the "Deep" colour group (Provisional) | m² | 44 | i. | | |
| 3 | Ceilings | m² | 14 | | | |
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| | One coat alkali resistant plaster primer and two coats fine texture acrylic paint on | | | | |
|----|--|----|-------|---|--|
| 4 | External walls | m² | 207 | | |
| 5 | Extra over for paintwork on components in the "Pastel" colour group for paintwork in the "Deep" colour group (Provisional) | m² | 207 | | |
| | ON PLASTER BOARD | | | | |
| | One coat alkali resistant plaster primer and two coats superior matt acrylic paint on | | | | |
| 6 | Internal plasterboard ceilings including priming nail heads | m² | 2 041 | | |
| | FIBRE-CEMENT SURFACES WITH | | | | |
| | Two coats pure acrylic paint on | | | | |
| 7 | Fascias and barge boards ("White" colour group) | m² | 159 | | |
| | METAL SURFACES WITH | | | | |
| | One coat galvanised iron primer and two coats super universal enamel paint on galvanised steel | | | | |
| 8 | Windows with burglar bars ("White" colour group) | m² | 583 | | |
| 9 | Door frames ("White" colour group) | m² | 70 | | |
| 10 | Record room and strongroom doors and frames ("White" colour group) | m² | 3 | | |
| 11 | General surfaces of structural steel ("White" colour group) | m² | 74 | | |
| 12 | Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area) | m² | 144 | | |
| 13 | Extra over for paintwork on components in the "White" colour group for paintwork in the "Deep" colour group (Provisional) | m² | 412 | | |
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| | WOOD SURFACES WITH | | | | |
|----|--|----|-------|---|--|
| | One coat wood primer and two coats super universal enamel paint on | | | | |
| 14 | Doors | m² | 289 | | |
| 15 | Door frames ("White" colour group) | m² | 35 | | |
| 16 | Extra over for paintwork on components in the "Pastel" colour group for paintwork in the "Deep" colour group (Provisional) | m² | 324 | | |
| | Three coats suede woodcare ultra varnish on | | | | |
| 17 | Skirtings, rails, etc not exceeding 300mm girth ("Transparent" colour group) | m | 985 | | |
| | PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK ON | | | | |
| | FLOATED PLASTER SURFACES WITH | | | | |
| | Two coats fine texture acrylic paint on work in poor condition on | | | | |
| 18 | Internal walls | m² | 3 448 | | |
| | Two coats fine texture acrylic paint on work in poor condition on | | | | |
| 19 | External walls | m² | 11 | | |
| | SMOOTH PLASTER OR CONCRETE SURFACES WITH | | | | |
| | Two coats fine texture acrylic paint on work in poor condition on | | | | |
| 20 | Ceilings | m² | 14 | | |
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| | <u>EARTHWORKS</u> | | | |
| | (WORKGROUP NO. 104) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | Nature of ground | | | |
| | The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock". | | | |
| | Subterranean water | | | |
| | No subterranean water is expected | | | |
| | Material of a more difficult character | | | |
| | Should the contractor consider that any of the excavations are more difficult in character than excavations in "earth" he shall immediately notify the principal agent in writing. Failing such notification the excavations shall be deemed to be in "earth" and shall be measured and valued accordingly. The contractor may use any method he chooses to excavate any class of material, but his chosen method of excavation shall not determine the classification of the material excavated | | | |
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| | 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 | | | | |
| | Working space | | | | |
| | Working space for formwork to sides of bases, ground beams, etc is measured with the assumption that it will be required by the principal agent in certain cases. If it is not required, it will be adjusted as such in the final account | | | | |
| | <u>Filling</u> | | | | |
| | Notwithstanding the reference to prescribed multiple handling in clause 1 page 10 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material | | | | |
| | <u>Testing</u> | | | | |
| | Prices for filling are to include for all necessary density and other tests | | | | |
| | SITE CLEARANCE ETC | | | | |
| | Site clearance | | | | |
| 1 | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc | m² | 514 | | |
| 2 | Stripping average 100mm thick layer of top soil and stockpiling on site | m² | 514 | | |
| | REMOVAL OF TREES, ETC | | | | |
| | Take out and remove, grub up roots and fill in holes | | | | |
| 3 | Tree stump exceeding 200mm and not exceeding 500mm girth | No | 1 | | |
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| 4 | Tree exceeding 500mm and not exceeding 1.00m girth | No | 1 | | |
|----|--|----|-----|---|----------|
| 5 | Tree exceeding 1.00mm and not exceeding 1.50m girth | No | 2 | | |
| 6 | Tree exceeding 1.50mm and not exceeding 2.00m girth | No | 1 | | |
| 7 | Tree exceeding 2.00mm and not exceeding 2.50m girth | No | 1 | | |
| | EXCAVATIONS | | | | |
| | Excavations in earth over sloping site | | | | |
| 8 | Open face excavations | m³ | 632 | | |
| | Excavations in earth not exceeding 2m deep | | | | |
| 9 | Reduce levels under floors | m³ | 34 | | |
| 10 | Trenches | m³ | 108 | | |
| 11 | Holes | m³ | 8 | | |
| | EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER (PROVISIONAL) | | | | |
| | Extra over bulk excavations in earth for excavations in | | | | |
| 12 | Soft rock | m³ | 78 | | |
| 13 | Hard rock | m³ | 39 | | |
| | CARTING AWAY | | | | |
| | Extra over all excavations for carting away | | | | |
| 14 | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor | m³ | 753 | | |
| | Risk of collapse of excavations | | | | |
| 15 | Sides of trench and hole excavations not exceeding 1,5m deep | m² | 244 | | |
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| | Keeping excavations free of water | | | | |
|----|---|----|------|---|--|
| 16 | Keeping excavations free of all water other than subterranean water | | Item | | |
| | FILLING, ETC | | | | |
| | Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to a density of at least 95% Mod AASHTO maximum density | | | | |
| 17 | Backfilling to trenches, holes, etc | m³ | 44 | | |
| 18 | Under floors, steps, pavings, etc | m³ | 63 | | |
| | Earth filling supplied by the contractor | | | | |
| 19 | Under solid floors, steps, pavings, etc. of G5 material in accordance with SANS 1200DM compacted to 95% Mod AASHTO density" | m³ | 690 | | |
| 20 | "Under solid floors, steps, pavings, etc. of G7 material in accordance with SANS 1200DM compacted to 93% Mod AASHTO density" | m³ | 9 | | |
| | Coarse river sand filling supplied by the contractor, compacted to a density of at least 95% Mod AASHTO maximum density | | | | |
| 21 | Under floors etc | m³ | 26 | | |
| | Compaction of surfaces | | | | |
| 22 | Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density | m² | 624 | | |
| | PROTECTION AGAINST TERMITES | | | | |
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| | Apply 'Chlorodane' or 'Aldrin' soil insecticides in strict accordance with manufacturers instructions and SABS 1164-1165 | | | | |
|----|--|----|-----|---|--|
| 23 | Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming | m² | 514 | | |
| 24 | To bottoms and sides of trenches etc | m² | 325 | | |
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| Section No. 3 | | | |
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| Section 3 - New Classroom Block | | | |
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| | SECTION NO. 3 | | | |
| | BILL NO 2 | | | |
| | CONCRETE, FORMWORK AND REINFORCEMENT | | | |
| | (WORKGROUP NO. 110) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | Cost of tests | | | |
| | The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SANS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately) | | | |
| | <u>Formwork</u> | | | |
| | Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before reuse. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself. | | | |
| | Carried to Collection Section No. 3 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT DEVELOPMENT BANK OF SOUTHERN AFRICA | | R | |
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| | Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks" | | | | |
|---|---|----|----|---|--|
| | UNREINFORCED CONCRETE CAST AGAINST ECAVATED SURFACES | | | | |
| | 15MPa/19mm concrete | | | | |
| 1 | 50mm Thick blinding | m³ | 4 | | |
| | REINFORCED CONCRETE | | | | |
| | 20MPa/19mm concrete | | | | |
| 2 | Surface beds | m³ | 8 | | |
| 3 | Thickening to surface beds | m³ | 1 | | |
| 4 | Ramps | m³ | 6 | | |
| | 25MPa/19mm concrete | | | | |
| 5 | Surface beds | m³ | 57 | | |
| 6 | Thickening to surface beds | m³ | 2 | | |
| 7 | Raft slab | m³ | 2 | | |
| 8 | Bases | m³ | 1 | | |
| | REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES | | | | |
| | 25MPa/19mm concrete | | | | |
| 9 | Strip footings | m³ | 15 | | |
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| | Carried to Collection Section No. 3 | | | R | |
| | Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT DEVELOPMENT BANK OF SOUTHERN AFRICA | | | | |
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| | TEST CUBES | | | | |
|----|---|----|------|---|---|
| 10 | Allow for all necessary concrete test cubes size 150 x 150 x 150mm cast from batches of concrete required for the entire contract as specified, made, stored, cured and tested in accordance with SABS Methods 861 and 863, including use of approved cube moulds, transporting to an approved testing laboratory for testing, paying all charges and submitting reports to the principal agent | | Item | | |
| | CONCRETE SUNDRIES | | | | |
| | Wood float surface treatment to finished face of concrete | | | | |
| 11 | Surface beds | m² | 391 | | |
| | Steel trowel surface treatment to finished face of concrete | | | | |
| 12 | Surface beds, slabs, etc to falls | m² | 123 | | |
| | (WORKGROUP NO. 111) | | | | |
| | SMOOTH FORMWORK | | | | |
| | Smooth formwork to sides | | | | |
| 13 | Edges, risers, ends and reveals not exceeding 300mm high or wide | m | 302 | | |
| | MOVEMENT JOINTS ETC | | | | |
| | Saw cut joints | | | | |
| 14 | Form 3 \times 40mm saw cut to top of concrete within 12 hours of pouring. Allow to cure for 7 days then ream out to form 13mm deep and 6mm wide recess | m | 306 | | |
| | Expansion joints with softboard between vertical concrete surfaces | | | | |
| 15 | 10mm Joints not exceeding 300mm high along edges of surface beds | m | 55 | | |
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| | Carried to Collection Section No. 3 | | | R | _ |
| | Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT | | | | |
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| | Expansion joints with softboard between vertical concrete and brick surfaces | | | | | |
|----|--|----|------|---|--|---|
| 16 | 10mm Joints exceeding 300mm high or wide | m | 305 | | | |
| | (WORKGROUP NO. 114) | | | | | |
| | REINFORCEMENT | | | | | |
| | High tensile steel reinforcement to structural concrete work | | | | | |
| 17 | Various diameter bars | t | 0.79 | | | |
| | Fabric reinforcement | | | | | |
| 18 | Type 193 fabric reinforcement in concrete surface beds, slabs, etc | m² | 505 | | | |
| 19 | Type 888 fabric reinforcement in concrete surface beds, slabs, etc | m² | 8 | | | |
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| Section No. 3 | | | |
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| Section 3 - New Classroom Block | | | |
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| | SECTION NO. 3 | | | |
| | BILL NO 3 | | | |
| | MASONRY | | | |
| | (WORK GROUP NO. 116) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | BRICKWORK | | | |
| | Sizes in descriptions | | | |
| | Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick | | | |
| | <u>Lintels</u> | | | |
| | Lintels shall bear at least 250mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings the lintel shall be continuous | | | |
| | Reinforced brick lintels | | | |
| | Lintels shall bear at least 160mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings the lintel shall be continuous | | | |
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| <u>Pointing</u> | | | | |
|--|----|----|---|--|
| Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc | | | | |
| FACE BRICKWORK | | | | |
| <u>General</u> | | | | |
| Bricks shall be ordered timeously to obtain uniformity in size and colour | | | | |
| <u>Pointing</u> | | | | |
| Descriptions of recessed pointing to face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc | | | | |
| MISCELLANEOUS | | | | |
| Bagging of masonry surfaces | | | | |
| Bagging of masonry surfaces shall be of the mortar as described rubbed onto surfaces with hessian cloth to provide a fair finish. The finished surface shall be free of penetrations or pitted openings or large protruding lumps of mortar. The finish shall be to the principal agent's approval | | | | |
| <u>FOUNDATIONS</u> | | | | |
| Brickwork of NFX bricks (14 MPa nominal compressive strength) in cement mortar | | | | |
| Half brick walls (Provisional) | m² | 16 | | |
| One brick walls (Provisional) | m² | 14 | | |
| One brick walls against softboard (Provisional) | m² | 68 | | |
| SUPERSTRUCTURE | | | | |
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| Half brick walls in beamfilling One brick wall One brick walls in beamfilling One brick walls in beamfilling One brick walls of two half brick skins bagged and sealed, including galvanised crimp wire wall ties (7 per square metre) laid staggered. BRICKWORK SUNDRIES Cement mortar filling between water tank and brick wall to support tank Mortar bed on top of raking gable walls to form close | m² m² m² m² m² m² | 57 15 21 19 219 | | | |
|--|--|---|--|--|---|
| One brick wall One brick walls in beamfilling One brick walls of two half brick skins bagged and sealed, including galvanised crimp wire wall ties (7 per square metre) laid staggered. BRICKWORK SUNDRIES Cement mortar filling between water tank and brick wall to support tank | m² m² m² | 21 19 219 | | | |
| One brick walls in beamfilling One brick walls of two half brick skins bagged and sealed, including galvanised crimp wire wall ties (7 per square metre) laid staggered. BRICKWORK SUNDRIES Cement mortar filling between water tank and brick wall to support tank | m² | 219 | | | |
| One brick walls of two half brick skins bagged and sealed, including galvanised crimp wire wall ties (7 per square metre) laid staggered. BRICKWORK SUNDRIES Cement mortar filling between water tank and brick wall to support tank | m² | 219 | | | |
| sealed, including galvanised crimp wire wall ties (7 per square metre) laid staggered. BRICKWORK SUNDRIES Cement mortar filling between water tank and brick wall to support tank | | | | | |
| Cement mortar filling between water tank and brick wall to support tank | m³ | 1 | | | |
| to support tank | m³ | 1 | | | |
| Mortar bed on top of raking gable walls to form close | | ' | | | |
| joint with underside of roof sheeting | m² | 6 | | | |
| Bagging of 1:3 cement and sand mixture | | | | | |
| On brick walls | m² | 306 | | | |
| Brickwork reinforcement | | | | | |
| 75mm Wide reinforcement built in horizontally (Provisional) | m | 365 | | | |
| 75mm Wide reinforcement built in horizontally in foundations (Provisional) | m | 189 | | | |
| 150mm Wide reinforcement built in horizontally (Provisional) | m | 1 412 | | | |
| 150mm Wide reinforcement built in horizontally in foundations (Provisional) | m | 966 | | | |
| Prestressed fabricated concrete lintels including necessary temporary supports | | | | | |
| 110 x 70mm Lintels in lengths not exceeding 3m | m | 153 | | | |
| | | | | | |
| Carried to Collection Section No. 3 Bill No. 3 MASONRY DEVELOPMENT BANK OF SOUTHERN AFRICA | | | R | | |
| | Bagging of 1:3 cement and sand mixture On brick walls Brickwork reinforcement 75mm Wide reinforcement built in horizontally (Provisional) 75mm Wide reinforcement built in horizontally in foundations (Provisional) 150mm Wide reinforcement built in horizontally (Provisional) 150mm Wide reinforcement built in horizontally in foundations (Provisional) Prestressed fabricated concrete lintels including necessary temporary supports 110 x 70mm Lintels in lengths not exceeding 3m Carried to Collection Section No. 3 Bill No. 3 MASONRY | Bagging of 1:3 cement and sand mixture On brick walls m² Brickwork reinforcement 75mm Wide reinforcement built in horizontally (Provisional) m 75mm Wide reinforcement built in horizontally in foundations (Provisional) m 150mm Wide reinforcement built in horizontally (Provisional) m 150mm Wide reinforcement built in horizontally (Provisional) m 150mm Wide reinforcement built in horizontally in foundations (Provisional) m Prestressed fabricated concrete lintels including necessary temporary supports 110 x 70mm Lintels in lengths not exceeding 3m m Carried to Collection Section No. 3 Bill No. 3 MASONRY | joint with underside of roof sheeting m² 6 Bagging of 1:3 cement and sand mixture On brick walls m² 306 Brickwork reinforcement 75mm Wide reinforcement built in horizontally (Provisional) m 365 75mm Wide reinforcement built in horizontally in foundations (Provisional) m 189 150mm Wide reinforcement built in horizontally (Provisional) m 1412 150mm Wide reinforcement built in horizontally in foundations (Provisional) m 966 Prestressed fabricated concrete lintels including necessary temporary supports 110 x 70mm Lintels in lengths not exceeding 3m m 153 Carried to Collection Section No. 3 Bill No. 3 MASONRY | joint with underside of roof sheeting m ² 6 Bagging of 1:3 cement and sand mixture On brick walls m ² 306 Brickwork reinforcement 75mm Wide reinforcement built in horizontally (Provisional) m 365 75mm Wide reinforcement built in horizontally in foundations (Provisional) m 189 150mm Wide reinforcement built in horizontally (Provisional) m 1412 150mm Wide reinforcement built in horizontally in foundations (Provisional) m 966 Prestressed fabricated concrete lintels including necessary temporary supports 110 x 70mm Lintels in lengths not exceeding 3m m 153 Carried to Collection R Section No. 3 Bill No. 3 MASONRY | joint with underside of roof sheeting m² 6 Bagging of 1:3 cement and sand mixture On brick walls m² 306 Brickwork reinforcement 75mm Wide reinforcement built in horizontally (Provisional) m 365 75mm Wide reinforcement built in horizontally in foundations (Provisional) m 189 150mm Wide reinforcement built in horizontally (Provisional) m 1412 150mm Wide reinforcement built in horizontally in foundations (Provisional) m 966 Prestressed fabricated concrete lintels including necessary temporary supports 110 x 70mm Lintels in lengths not exceeding 3m m 153 Carried to Collection R Section No. 3 Bill No. 3 MASONRY |

| | Air bricks etc | | | | |
|----|---|----|-----|---|--|
| 17 | Set of two 229 x 152mm terra cotta vermin proof air bricks | No | 4 | | |
| | Galvanised wire ties | | | | |
| 18 | 4mm Diameter roof tie 2m girth bent double with one end built into brickwork and other end fixed to timber | No | 76 | | |
| | FACE BRICKWORK | | | | |
| | "Corobrik Nala Travertine"face bricks pointed with recessed horizontal and vertical joints | | | | |
| 19 | Extra over brickwork for face brickwork in foundations (Provisional) | m² | 26 | | |
| | "Corobrik Nala Travertine"face bricks pointed with recessed horizontal and vertical joints | | | | |
| 20 | Extra over brickwork for face brickwork | m² | 219 | | |
| 21 | Extra over brickwork in beamfilling for face brickwork | m² | 19 | | |
| 22 | Extra over brickwork for brick-on-edge header course lintels one course high | m | 50 | | |
| | Brick-on-edge header course copings, sills, etc of "Corobrik Nala Travertine" face bricks pointed with recessed joints on all exposed faces | | | | |
| 23 | 230mm Copings on top of 230mm walls | m | 12 | | |
| 24 | 220mm Wide sills set sloping and slightly projecting | m | 46 | | |
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| Item No | | Quantity | Rate | Amount R |
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| | SECTION NO. 3 | | | |
| | BILL NO 4 | | | |
| | WATERPROOFING | | | |
| | (WORK GROUP NO. 120) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | DAMPPROOFING OF WALLS AND FLOORS | | | |
| | One layer of 250 micron "Consol Plastics Gunplas USB Green" or other approved waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape" | | | |
| 1 | Under surface beds m² | 514 | | |
| | One layer of 375 micron "Consol Plastics Gunplas USB Orange" or other approved waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape" | | | |
| 2 | In walls m² | 30 | | |
| | Two coats "Brixeal" bitumen emulsion waterproof coating | | | |
| 3 | On bagged brick walls m² | 357 | | |
| | JOINT SEALANTS, ETC. | | | |
| | "Compriband" bitumen impregnated foam plastic joint sealing strips | | | |
| 4 | 25 x 20mm In joints between frames and walls m | 194 | | |
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| | "abe® silicone" sealant | | | | |
|---|---|---|-----|---|--|
| 5 | 5 x 5mm Fillet joints | m | 264 | | |
| | Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc | | | | |
| 6 | 10 x 10mm In joints in top surfaces | m | 305 | | |
| 7 | 12 x 12mm In vertical expansion joints including raking out expansion joint filler as necessary | m | 55 | | |
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| Section 3 - New Classroom Block | | | | |
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| | SECTION NO. 3 | | | |
| | BILL NO 5 | | | |
| | ROOF COVERINGS ETC | | | |
| | (WORK GROUP NO. 124) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | Straight cutting | | | |
| | Descriptions of all roof coverings are deemed to include for all straight cutting | | | |
| | Profiled metal, fibre-cement, etc sheeting and accessories | | | |
| | Profiled metal, fibre-cement, etc sheeting and accessories shall be fixed strictly in accordance with the manufacturer's instructions | | | |
| | PROFILED METAL SHEETING AND ACCESSORIES | | | |
| | Safintra 0.5mm thick AZ150ZincAl Weldedek profile roof sheeting in single lengths and 0.8mm galvanised accessories, both with clean "Colorbond" finish of approved standard colour on one side and standard grey backing finish on reverse side, fixed to timber purlins all in accordance with the manufacturer's recommendations. | | | |
| 1 | Roof coverings with pitches not exceeding 25 degrees m² | 587 | | |
| 2 | Ridge capping 462mm girth, three times bent along girth and notched on site to suit roof profile (Code FS3) m | 45 | | |
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| 3 | Broad flute closers 760mm girth | m | 90 | | |
|---|--|----|-----|---|--|
| | ROOF AND WALL INSULATION | | | | |
| | "Sisalation F430" heavy industrial grade aluminium foil based insulation | | | | |
| 4 | Insulation laid taut over purlins (at approximately 1140mm centres) and fixed concurrent with roof covering including galvanized steel straining wires | m² | 354 | | |
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| | SECTION NO. 3 | | | |
| | BILL NO 6 | | | |
| | CARPENTRY AND JOINERY | | | |
| | (WORK GROUP NO. 126) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | Plate nailed timber roof truss construction | | | |
| | The following is applicable in respect of roof trusses: | | | |
| | Trusses are at maximum 1.25m centres. Roof covering is 0.5mm AZ150Zincal Widedek profile sheeting on 50 x 75mm purlins. Ceilings are 9mm rhinoboard clout nailed to 38 x 50mm brandering. The references given in the descriptions are to the respective types of trusses detailed on the principal agent's drawing numbered 9005-003-BAR-0113- Revision T1 accompanying this document. The dimensions in the descriptions of the trusses are nominal and actual measurements shall be obtained from the principal agent and/or the site before design or fabrication commences | | | |
| | Straight cutting | | | |
| | Descriptions of all boarding, etc shall be deemed to include for all straight cutting | | | |
| | <u>Joinery</u> | | | |
| | Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc | | | |
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| | Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes | | | | |
|---|---|----|-----|---|--|
| | Fixing | | | | |
| | Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete | | | | |
| | Decorative laminate finish | | | | |
| | Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish | | | | |
| | STRUCTURAL TIMBERWORK ETC | | | | |
| | The following in plate nailed timber roof trusses with a pitch not exceeding 27,5°, from an approved supplier, delivered to site, hoisted into position, fixed and braced on timber wall plates | | | | |
| 1 | Double pitch timber truss 7.48 x 1.36m high overall with 600mm eaves overhang projection on one side and 2100mm at the front side over walkways | No | 38 | | |
| | Sawn softwood grade M4 | | | | |
| 2 | 38 x 76mm Wall plates including bed level in cement mortar | m | 88 | | |
| 3 | 50 x 76mm Purlins | m | 538 | | |
| 4 | 50 x 76mm Cross bracing | m | 17 | | |
| 5 | 75 x 75mm Splayed purlins | m | 102 | | |
| 6 | 38 x 114mm Longitudinal bracing | m | 88 | | |
| 7 | 38 x 114mm Rafters in lengths exceeding 2.4m and not exceeding 3.9m | m | 42 | | |
| 8 | 38 x 152mm Beams, etc bolted | m | 80 | | |
| 9 | 50 x 228mm Beams, etc bolted | m | 45 | | |
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| | Wrot softwood Grade M4 | | | | |
|----|--|----|-----|----|---|
| 10 | 38 x 114mm Barge rail | m | 27 | | |
| | ROOF SUNDRIES | | | | |
| 11 | Teco two way hurricane clips between trusses and purlins | No | 532 | | |
| 12 | Two coats creosote on sawn timbers | m² | 489 | | |
| 13 | Wrought faces on sawn timbers | m² | 2 | | |
| | EAVES, VERGES, ETC | | | | |
| | "Everite" medium density plain nutec fibre cement | | | | |
| 14 | 12 x 225mm Fascia boards (041-202) including aluminium H-profile jointing strips (685-195) | m | 102 | | |
| 15 | 80 x 200mm Socketless barge boards including aluminium H-profile jointing strips (685-187) | m | 27 | | |
| | SKIRTINGS | | | | |
| | Wrot Meranti | | | | |
| 16 | 19 x 70mm skirting plugged with and including 19mm quadrant bead planted on at junction with floor | m | 179 | | |
| | FRAMED DOORS, ETC. | | | | |
| | All framed and ledged batten doors and combination doors, where battens are utilised, shall only be of construction acceptable to the principal agent, i.e. mortice and tennon where the tennon is exposed on the outside edges of styles and where the tennon is wedged to form a dovetailed shape. | | | | |
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| | BIII No. 6 CARPENTRY AND JOINERY | | | | |
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| | Saligna Blaco doors hung to steel frames | | | | |
|----|--|----|---|---|--|
| 17 | 44mm Framed, ledged and braced batten door 0,81 x 2,03m high of 40 x 110mm top rail and stiles, 20 x 150mm middle ledge, 20 x 225mm bottom rail and 20 x 1110mm braces filled in with 20mm V-jointed one side boarding, 44 x 70mm grooved and splayed weatherboard and 3mm plywood panel to internal face | No | 8 | | |
| | JOINERY FITTINGS | | | | |
| | <u>General</u> | | | | |
| | The following joinery fittings are measured as complete units i.e. the components of the units are not separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative laminates, silicone pointing against adjacent surfaces, ironmongery, metalwork, glass, paint or varnish finishes, etc | | | | |
| | The references given in the descriptions refer to the respective types of joinery fittings detailed on the principal agent's drawings accompanying this document | | | | |
| | "Grey Granite" countertops | | | | |
| 18 | To supply and install 30mm counter top size 3405 \times 600, including cleats and supports | No | 4 | | |
| | Kitchen cupboards | | | | |
| 19 | Type SJ4 - Kitchen Sink Floor Unit, size 600 x 1850 x 900mm high, with 32mm caesarstone counter top with square line edge, Colour Almond Rocca 9241, melamine clad PG Bison BisonBord V313 doors, drawers and carcass, with 2mm impact edging around cupboard doors and drawers, aluminium finish "arch" type handle, 1x hinged double and 1 x hinged single doors, adjustable shelves and 1 set of 5 chest drawers, including cut-out for sink (sink elsewhere), as per detail drawing no. 9005-003-BAR-0110- Rev 2 | No | 4 | | |
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| | Shelving: | | | | |
|----|--|----|---|---|--|
| 20 | 430 x 3 405 x 890mm High melamine clad PG Bison Bison board V313 shelf with impact edging to exposed edges, side panels, white melamine faced masonite back panel including 150mm high plinth as per detail 9005-003-BAR-0110- Revision 2 - New Classroom Block | No | 4 | | |
| 21 | 430 x 1 868 x 1790mm High melamine clad PG Bison Bison board V313 shelf with impact edging to exposed edges, side panels, white melamine faced masonite back panel including 150mm high plinth as per detail 9005-003-BAR-0110- Revision 2 - New Classroom Block | No | 4 | | |
| | NOTICE BOARDS, KEYBOARDS, ETC | | | | |
| | "Flortime Premier" pinning boards | | | | |
| 22 | 9mm Pinning board 4,80 x 1,20m high glued to plastered walls | No | 8 | | |
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| | BILL NO 7 | | | |
| | CEILINGS, PARTITIONS AND ACCESS FLOORING | | | |
| | (WORK GROUP NO. 129) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | <u>Descriptions</u> | | | |
| | Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete | | | |
| | Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted", the bolts are measured elsewhere | | | |
| | NAILED UP CEILINGS | | | |
| | 12.5mm Thick "Rhino" gypsum plasterboards in 1,2m wide panels with open joints for and including preprimed H-section cover strips neatly mitred at intersections | | | |
| 1 | Ceilings including 38 x 50mm brandering at 400mm centres in one direction securely spiked to roof timbers (elsewhere) | 300 | | |
| 2 | Extra over ceilings for 600 x 600m trap door of 44 x 44mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening | 4 | | |
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| | CORNICE, ETC | | | | | |
|---|--|----|-----|---|--|--|
| | Rhino" gypsum plasterboard cornices | | | | | |
| 3 | 75mm Coved cornices, nailed | m | 188 | | | |
| | INSULATION | | | | | |
| | "Aerolite" insulation | | | | | |
| 4 | 50mm Insulation closely fitted and laid on top of brandering between roof timbers, etc | m² | 300 | | | |
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| | BILL NO 8 | | | |
| | FLOOR COVERINGS, PLASTIC LININGS, ETC | | | |
| | (WORK GROUP NO. 130) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | <u>Fixing</u> | | | |
| | Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers | | | |
| | FLOOR COVERINGS | | | |
| | 300 x 300 x 2.5mm "Marleyflex" semi-flexible vinyl tiles | | | |
| 1 | On floors m | 299 | | |
| | POLISH, SEALERS, ETC | | | |
| | Clean down, seal and apply metallised floor dressing as described | | | |
| 2 | On vinyl flooring m | 299 | | |
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| | BILL NO 9 | | | | |
| | IRONMONGERY | | | | |
| | (WORK GROUP NO. 132) | | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | | |
| | HINGES, BOLTS, ETC | | | | |
| | <u>Approved</u> | | | | |
| 1 | 100mm Steel hinge | 10 | 16 | | |
| | LOCKS, ETC | | | | |
| | "Union Assa Abloy" | | | | |
| 2 | 50mm UN335002006300 padlock | ۱o | 4 | | |
| 3 | Solid Art 390/313 four lever mortice lockset with satin chrome plated handles | No | 8 | | |
| | SIGNAGE | | | | |
| | <u>Approved</u> | | | | |
| 4 | 290 x 290mm FB1 Direction sign | No | 1 | | |
| 5 | 290 x 290mm FB2 Fire extinguisher sign | ۷o | 1 | | |
| 6 | 290 x 290mm FB3 Fire hose sign | ۷o | 1 | | |
| 7 | 290 x 290mm GA3/GA4 running man sign | ۷o | 1 | | |
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| 8 | 290 x 290mm GA33 exit sign | No | 1 | | |
|----|--|----|----|---|----------|
| 9 | 38mm High plastic letter or numeral | No | 4 | | |
| 10 | 50 x 400 x 3mm Thick perspex plate with nine 40mm high engraved and painted letters or numerals | No | 1 | | |
| | SUNDRIES | | | | |
| | "Assa Abloy" or other approved | | | | |
| 11 | 87001SS Floor door stop satin SS | No | 12 | | |
| 12 | SS8025SS Hat and Coat Hook with buffer | No | 4 | | |
| | STEEL LOCKERS | | | | |
| | 'Castor & Ladder' or other approved 6 x 3 steel stationery cupboards in Ivory Karoo finish or other approved | | | | |
| 13 | Cupboard size 1800 x 900mm x 450mm high with 4 adjustable shelved (Code CU10) | No | 4 | | |
| | PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC | | | | |
| | Wall mounted vitreous enamel writing boards as SABS CKS-36-1994 | | | | |
| 14 | 'Vitrex' Model 2100 standard vitreous enamelled wall mounted writing board overall size 4800 x 1000mm high comprising two boards ref. no. 2205, each size 2400 x 1000mm high overall complete with intergrated chalkrail along bottom and fixed to existing plastered brick wall | No | 4 | | |
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| | BILL NO 10 | | | |
| | METALWORK | | | |
| | (WORK GROUP NO. 136) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | <u>Descriptions</u> | | | |
| | Descriptions of bolts shall be deemed to include nuts and washers | | | |
| | Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete | | | |
| | Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described | | | |
| | GALVANISED STEEL WORK | | | |
| | Welded and bolted handrails | | | |
| 1 | 51 x 2mm x 2.42kg/m Circular hollow section continuous rails | m 3 ⁻ | | |
| 2 | Extra over for rounded closed end | lo 4 | ı | |
| 3 | Extra over for bend to 50mm internal radius | Jo 2 | 2 | |
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| 4 | L-shaped bracket formed of 16mm round 200mm girth, | | | | |
|----|---|----|-------|---|---------|
| | once bent to 50mm internal radius, with one end welded to rail and other end welded to and including 75mm diameter x 6mm thick plate twice holed for bolts | No | 2 | | |
| 5 | "Hilti" HLC 12 x 55/15 expansion anchor and bolt | No | 93 | | |
| | Welded portal columns in single lengths with flat base, top, bearer and connection plates | | | | |
| 6 | PC100 x 50mm x 10.1kg/m Channel posts 2.10m high with 100 x 6mm x 5.18kg/m flat bar base plate 100mm long twice holed for bolts and welded on | kg | 1 909 | | |
| 7 | PC100 x 50mm x 10.1kg/m Channel beams 2.10m long welded on | kg | 1 535 | | |
| 8 | Extra over for mitred L-intersection | No | 90 | | |
| 9 | 50 x 6mm x 2.36kg/m Flat bar cleat 150mm girth, once bent across flat, once holed for bolt and welded on | No | 90 | | |
| 10 | "Hilti" HLC 16 x 60/10 expansion anchor and bolt | No | 16 | | |
| | Roof brackets, etc | | | | |
| 11 | U-shaped bracket formed of $40 \times 6 \text{mm} \times 2.12 \text{kg/m}$ flat bar 350mm girth, twice bent across flat and twice holed for bolts (bolts elsewhere) | No | 90 | | |
| 12 | U-shaped bracket formed of $40 \times 6 \text{mm} \times 2.12 \text{kg/m}$ flat bar 700mm girth, twice bent across flat and twice holed for bolts (bolts elsewhere) | No | 189 | | |
| 13 | Bolts | kg | 23 | | |
| | GALVANISED STEEL SCREENS AND GATES | | | | |
| | Welded and bolted safe storage screens and gates | | | | |
| 14 | $50 \times 50 \times 3$ mm cold rolled angle section bearer welded to lug and built in | m | 20 | | |
| 15 | Extra for mitred and welded angle | No | 8 | | |
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| 16 | Single gate size 0.97 x 2.25m high formed of 50 x 50 x 2.0mm x 3.03kg/m square hollow section frame, and gate formed of 60 x 60 x 2mm rectangular tube framing all round mitred and welded at angles with two 40 x 6mm flat section horizontal intermediate rails with ends welded to framing and with five 19mm diameter rod vertical bars framed through intermediate rails with ends welded to framing, fitted with a pair of suitable hinges bolted to wall with and including two 16mm expansion bolts and the gate with hasp and staple and 12mm drop bolt welded on (Padlock measured elsewhere) HOT DIPPED GALVANIZED PRESSED STEEL DOOR FRAMES 1,2mm Rebated frames suitable for half brick walls | No | 4 | | |
|----|--|----|----|---|--|
| 17 | Frame for door 813 x 2032mm high | No | 4 | | |
| ., | 1,2mm Double rebated frames suitable for one brick walls | | | | |
| 18 | Frame for door 813 x 2032mm high | No | 4 | | |
| | HOT DIP GALVANISED STEEL WINDOWS, DOORS, ETC. | | | | |
| | A sample window shall be submitted for approval prior to placing the complete order | | | | |
| | Standard windows with heavy duty solid brass ironmongery with opening sections fitted with standard burglar bars | | | | |
| 19 | Window type 4BH 889 x 457mm high | No | 8 | | |
| 20 | Window composite type 4/9, 889 x 914mm high | No | 24 | | |
| 21 | Window composite type 6/9 size 889 x 1248mm high | No | 20 | | |
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| | BILL NO 11 | | | |
| | PLASTERING | | | |
| | (WORK GROUP NO. 142) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | <u>PLASTER</u> | | | |
| | <u>Finish</u> | | | |
| | Internal plaster shall be finished with a steel trowel and external plaster with a wooden float | | | |
| | SCREEDS | | | |
| | Screeds on concrete | | | |
| 1 | 25mm Thick on floors and landings m | ² 421 | | |
| 2 | 30mm Thick on narrow widths | 2 4 | | |
| | INTERNAL PLASTER | | | |
| | Cement plaster class II on masonry | | | |
| 3 | On walls m | ² 446 | | |
| 4 | On narrow widths | 2 25 | | |
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| | BILL NO 12 | | | |
| | <u>TILING</u> | | | |
| | (WORK GROUP NO. 144) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | <u>Fixing</u> | | | |
| | Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat | | | |
| | Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles | | | |
| | <u>Descriptions</u> | | | |
| | Descriptions of tiling shall be deemed to include for symmetrical arrangement of tiling with cutting along both sides of panels and for all straight cutting | | | |
| | Descriptions of tiling shall be deemed to include for cutting and fitting around all sanitary ware and pipes, etc not exceeding 150mm diameter | | | |
| | Descriptions of tiling shall be deemed to include for soft grouted joints at positions of joints in the substructure or at centres in both directions as recommended by the tile manufacturers or which represents good practice | | | |
| | WALL TILING | | | |
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| | Section No. 3 Bill No. 12 Tiling | | | |
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| | 200 x 200mm "Johnson" matt white ceramic tiles fixed with adhesive to plaster (plaster elsewhere) on | | | | |
|---|--|----|---|---|--|
| 1 | Walls in isolated panels, splashbacks, etc not exceeding 1m² | m² | 6 | | |
| | EDGE TRIMS, NOSINGS, ETC | | | | |
| | "M-Trim" | | | | |
| 2 | 7mm "PRE070.01" PVC round edge trims | m | 3 | | |
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| | SECTION NO. 3 | | | |
| | BILL NO 13 | | | |
| | PLUMBING AND DRAINAGE | | | |
| | (WORK GROUP NO. 148) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | Wire gratings | | | |
| | Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings | | | |
| | Rock excavations | | | |
| | No claim for rock excavation will be entertained unless the contractor has timeously notified the principal agent thereof prior to backfilling | | | |
| | "Soft rock" and "hard rock" shall be as defined in "Earthworks" | | | |
| | Laying, backfilling, bedding, etc of pipes | | | |
| | Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions | | | |
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| | PLUMBING AND DRAINAGE DEVELOPMENT BANK OF SOUTHERN AFRICA | | | |
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| Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: | | |
|--|---|--|
| SANS 1200 L : Medium-pressure pipelines, SANS 1200 LD : Sewers and SANS 1200 LE : Stormwater drainage | | |
| Pipe trenches, etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SANS 1200 DB : Earthworks (Pipe trenches) | | |
| Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SANS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding | | |
| uPVC pipes and fittings | | |
| Drainage pipes and fittings shall be jointed and sealed with butyl rubber rings | | |
| Sanitary plumbing pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings | | |
| Gratings, covers, etc | | |
| Gratings, covers, etc shall be as manufactured by "Saint-Gobain", unless otherwise described | | |
| <u>French drains</u> | | |
| Descriptions of french drains shall be deemed to include for battered sides and sloping bottoms with inlet chamber size 300 x 300mm internally under inlet pipe, from bottom of drain to top of pipe, formed of loosely packed, rough, hard stone walls and covered with precast concrete slab size 600 x 600 x 100mm thick and the rest of the drain filled in to the same height with similar stone graded from 300mm diameter at bottom to 50mm diameter at top, covered with galvanised corrugated iron sheets treated on both sides with bituminous paint and 300mm earthfilling over | | |
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| uPVC pressure pipes and fittings | | |
|--|---|--|
| Pipes for water supply shall be of the class described | | |
| Pipes of 42mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings | | |
| Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints | | |
| <u>Copper pipes</u> | | |
| Pipes shall be hard drawn and half-hard pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016 | | |
| Fixing of pipes | | |
| Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for : - casting in, building in, chasing in and fixing to walls, etc, including chasing; or - placing in ground or filling under solid floors, including necessary excavation, backfilling and ramming; or - suspending not exceeding 1m below suspension level | | |
| Reducing fittings | | |
| Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm, only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm, all sizes are given and no claim for extra bushes, reducers, etc will be entertained | | |
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| Stainless steel basins, sinks, wash troughs, urinals, etc | | |
|--|---|---|
| Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be type 304 (18/8) | | |
| <u>Flush pans</u> | | |
| Flush pans shall have straight or side outlets and "P" or "S" traps as necessary | | |
| Geyser installations | | |
| Geyser installations shall comply with SANS 10254 | | |
| <u>General</u> | | |
| Descriptions of pipes laid in and including trenches, sumps, catchpits, junction boxes, inspection chambers, french drains, septic tanks and the like shall be deemed to include for excavations, bedding of pipes, risk of collapse, keeping free of water, a dewatering system for removal of seepage water and water from other subterranean sources in the excavations designed and executed by the contractor, backfilling, compaction to a minimum of 93% modified AASHTO density and disposal of surplus material | | |
| Descriptions of sumps, catchpits, junction boxes, inspection chambers and the like shall be deemed to include reinforcement, step irons and channels where applicable | | |
| Descriptions for jointing of new to existing pipes shall be deemed to include searching for the existing pipe, exposing if necessary, cutting into, jointing and necessary fittings | | |
| Descriptions of all sanitary fittings shall be deemed to include for silicone sealant pointing between the fittings and finished wall surfaces | | |
| Descriptions of copper service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to pipes | | |
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| | Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends | | | | |
|---|---|----|-----|---|----------|
| | RAINWATER DISPOSAL | | | | |
| | "Marley Vynadeep" uPVC | | | | |
| 1 | 110mm Half round eaves gutters | m | 142 | | |
| 2 | Extra over for stopped end | No | 8 | | |
| 3 | Extra over for outlet for 75mm diameter pipe | No | 14 | | |
| 4 | 75mm Diameter rainwater pipes | m | 50 | | |
| 5 | Extra over for bend | No | 28 | | |
| 6 | Extra over for shoe | No | 14 | | |
| | (WORK GROUP NO 110) | | | | |
| | STORMWATER CHANNELS | | | | |
| | In-situ concrete channels | | | | |
| 7 | Concrete 20MPa/19mm, Ref. 193 mesh reinforcement, in-situ "V"-shaped open surface water channel 1000mm wide with minimum 75mm thickness in the centre and 100mm at the edges to from a 25mm deep dish, cast to falls in lengths not exceeding 2000mm, jointed in 3:1 cement mortar finished smooth with a wood float on all exposed surfaces including all necessary shallow excavation, well ramming ground under, spreading and levelling surplus excavated material and formwork | m | 118 | | |
| 8 | Extra over 900mm "V"-shaped channel for angles, intersections and ends | No | 8 | | |
| | Carried to Collection Section No. 3 Bill No. 13 PLUMBING AND DRAINAGE DEVELOPMENT BANK OF SOUTHERN AFRICA | | | R | <u> </u> |

| 9 | Triangular shaped concrete spill basin size 900mm at head, 1500mm at base end and 1500mm long, formed of 200mm thick concrete base with concrete upstand size 100 x 100mm high along two sides including all excavations, formwork and backfilling, the top of the base inlaid with sixteen concrete bricks protruding 50mm above the surface of the concrete and loose stones of 100 to 150mm diameter at the base of the spill basin for a width of 500mm Gratings, covers, etc SLEEVES FOR ELECTRICAL AND TELEPHONE CABLES | No | 1 | | |
|----|---|----|-----|---|---------|
| | Class 6 modified uPVC pipes, including 1.6mm galvanised steel draw wires | | | | |
| 10 | 110mm Pipes laid in and including trenches not exceeding 1m deep | m | 80 | | |
| 11 | Set of two 110mm pipes laid in and including trenches not exceeding 1m deep | m | 160 | | |
| | Extra over class 6 modified uPVC pipes for modified uPVC fittings | | | | |
| 12 | 110mm 45 Degree bend | No | 3 | | |
| 13 | 110mm 90 Degree bend | No | 2 | | |
| | Inspection chambers (covers elsewhere) | | | | |
| 14 | Inspection chamber 900 x 900mm and not exceeding 0.75m deep internally | No | 3 | | |
| | Cast iron covers | | | | |
| 15 | 600 x 600mm x 82kg Type 9B single seal cover and frame | No | 3 | | |
| | SOIL DRAINAGE | | | | |
| | uPVC pipes | | | | |
| 16 | 50mm Pipes | m | 5 | | |
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| 17 | 110mm Pipes | m | 15 | | |
|----|---|----|------|---|--|
| | Extra over uPVC pipes for fittings | | | | |
| 18 | 50mm Stop end | No | 4 | | |
| 19 | 50mm Bend | No | 8 | | |
| 20 | 50mm Access bend | No | 4 | | |
| 21 | 110mm Bend | No | 3 | | |
| 22 | 110mm Junction | No | 3 | | |
| | uPVC gulleys | | | | |
| 23 | 110mm Gulley not exceeding 0.75m deep | No | 4 | | |
| | Sundries | | | | |
| 24 | Allow for testing of all the above mentioned items as described to the complete satisfaction of the Principal Agent and for replacing any defective work at the Contractor's expense and re-testing until found to be perfect | | Item | | |
| | WATER SUPPLIES | | | | |
| | Class 10 HDPE pipes | | | | |
| 25 | 32mm Pipes laid in and including trenches | m | 20 | | |
| | Class 16 modified uPVC pipes | | | | |
| 26 | 50mm Pipes laid in and including trenches | m | 60 | | |
| | Extra over class 16 modified uPVC pipes for modified uPVC fittings | | | | |
| 27 | 50mm 45 Degree bend | No | 3 | | |
| | Carried to Collection Section No. 3 Bill No. 13 PLUMBING AND DRAINAGE DEVELOPMENT BANK OF SOUTHERN AFRICA | | | R | |

| | Extra over class 16 modified uPVC pipes for SG iron | | | | |
|----|--|-----|----|---|--|
| 20 | fittings | No | 4 | | |
| 28 | 50mm Equal tee | INO | 4 | | |
| | Class 1 copper pipes | | | | |
| 29 | 15mm Pipes | m | 8 | | |
| 30 | 22mm Pipes | m | 21 | | |
| 31 | 28mm Pipes | m | 30 | | |
| | Extra over class 1 copper pipes for capillary fittings | | | | |
| 32 | 15mm Fittings | No | 8 | | |
| 33 | 22mm Fittings | No | 12 | | |
| 34 | 28mm Fittings | No | 4 | | |
| | Extra over class 1 copper pipes for brass compression fittings | | | | |
| 35 | 15mm Fittings | No | 8 | | |
| 36 | 22mm Fittings | No | 4 | | |
| 37 | 28mm Fittings | No | 4 | | |
| | <u>Sundries</u> | | | | |
| 38 | Unreinforced concrete thrust blocks at bends, tees, etc, including necessary extra excavation, formwork, etc | m³ | 1 | | |
| 39 | 150 x 150mm Type 11A cast iron stopcock box, including brick chamber below not exceeding 0.50m deep internally | No | 1 | | |
| 40 | 300 x 200mm Type 10A cast iron meter box, including brick chamber below not exceeding 0.50m deep internally | No | 1 | | |
| 41 | 450 x 450mm Valve chamber not exceeding 0.75m deep internally (cover and frame elsewhere) | No | 1 | | |
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| 42 | 450 x 450 x 28.5kg Type 14B cast iron cover and frame | No | 1 | | |
|----|---|----|------|---|--|
| 43 | Allow for testing of all the above mentioned items as described to the complete satisfaction of the Principal Agent and for replacing any defective work at the Contractor's expense and re-testing until found to be perfect | | Item | | |
| | WATER SUPPLIES TO FIRE APPLIANCES | | | | |
| | Class 16 modified uPVC pipes | | | | |
| 44 | 110mm Pipes laid in and including trenches | m | 5 | | |
| | Extra over class 16 modified uPVC pipes for modified uPVC fittings | | | | |
| 45 | 110mm 90 Degree bend | No | 2 | | |
| | Extra over class 16 modified uPVC pipes for SG iron fittings | | | | |
| 46 | 110mm End cap | No | 1 | | |
| 47 | 110mm Equal tee | No | 1 | | |
| | Black medium quality (SANS 62/BS 1387) mild steel pipes with one coat factory applied red oxide primer and one final coat of red gloss enamel paint | | | | |
| 48 | 40mm Pipe | m | 3 | | |
| | Extra over black medium quality (SANS 62/BS 1387) mild steel pipes for steel fittings, including one coat factory applied red oxide primer and one final coat of red gloss enamel paint | | | | |
| 49 | 100 x 40mm Reducing tee | No | 1 | | |
| | Class 1 copper pipes | | | | |
| 50 | 42mm Pipes laid in and including trenches | m | 2 | | |
| | | | | | |
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| | Extra over class 1 copper pipes for brass compression fittings | | | | |
|----|---|----|------|---|--|
| 51 | 42mm Tee | No | 1 | | |
| | <u>Sundries</u> | | | | |
| 52 | Unreinforced concrete thrust blocks at bends, tees, etc, including necessary extra excavation, formwork, etc | m³ | 1 | | |
| 53 | 225 x 225mm Type 11B cast iron stopcock box, including brick chamber below not exceeding 0.50m deep internally | No | 1 | | |
| 54 | 375 x 300mm Type 10C cast iron meter box, including brick chamber below not exceeding 0.50m deep internally | No | 1 | | |
| 55 | 450 x 450mm Valve chamber not exceeding 0.75m deep internally (cover and frame elsewhere) | No | 1 | | |
| 56 | 450 x 450mm x 28.5kg Type 14B cast iron cover and frame | No | 1 | | |
| 57 | Allow for testing of all the above mentioned items as described to the complete satisfaction of the Principal Agent and for replacing any defective work at the Contractor's expense and re-testing until found to be perfect | | Item | | |
| | SANITARY FITTINGS | | | | |
| | "Franke" stainless steel | | | | |
| 58 | "Trendline 711" single end bowl sink $0.90 \times 0.46 \text{m}$ wide, on cupboard (cupboard elsewhere) | No | 4 | | |
| | TANKS, ETC | | | | |
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| | "JoJo" polyethylene | | | | |
|----|---|----|---|---|--|
| 59 | 5000 Litre "Jojo" low profile rainwater tank complete with access lid with inlet hole placed in position on concrete slab and anchored with and including four 7mm diameter galvanized steel chain anchors fitted into garden hose protective sleeves with top end of chain secured to tank and bottom end secured to and including 10mm diameter x 650mm girth U-shaped high tensile steel securing lugs, bent to detail and cast in to concrete plinth. Tank to be filled to half before being built in | No | 1 | | |
| 60 | Outlet union for 50mm uPVC pipe, including hole through tank | No | 1 | | |
| | TAPS, VALVES, ETC | | | | |
| | "Cobra Watertech" | | | | |
| 61 | 15mm 166/041CP "Star" wall type sink mixer | No | 4 | | |
| | WASTE UNIONS, ETC | | | | |
| | "Cobra Watertech" | | | | |
| 62 | 40mm 316CP bath or sink waste union | No | 4 | | |
| | TRAPS, ETC | | | | |
| | "Flexitrap" rubber | | | | |
| 63 | 40mm Plain "P" or "S" trap | No | 4 | | |
| | FIRE APPLIANCES, ETC | | | | |
| | "Chubb" | | | | |
| 64 | "Everyway" hose reel complete with 30m hose, chromium plated stopcock, shut-off nozzle and wall bracket | No | 1 | | |
| 65 | 4.5kg Dry chemical powder fire extinguisher on and including a painted backing board | No | 1 | | |
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| | "Woodlands Fire" | | | | |
|----|---|----|------|---|--|
| 66 | 100mm "WHE" hydrant, including flanges, 100mm duck foot bend, bolts, gaskets, etc | No | 1 | | |
| 67 | 100mm "WNV" flanged non-return valve | No | 1 | | |
| | "Kevcor" plastic fire boxes | | | | |
| 68 | FB9 fire extinguisher box | No | 1 | | |
| 69 | HR hose reel box | No | 1 | | |
| | Fire hydrant pedestals | | | | |
| 70 | Unreinforced concrete hydrant pedestal 900mm high cast around vertical pipe with bottom 300mm below ground, 300 x 300mm square at base and tapering to octagonal shaped top 200 x 200mm overall, including necessary excavation, formwork and two coats paint to exposed surfaces | No | 1 | | |
| | AS-BUILT DRAWINGS | | | | |
| 71 | Allow for an updated set of as-built drawings to be handed to the principal agent at completion of the contract | | Item | | |
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| | BILL NO 14 | | | |
| | GLAZING | | | |
| | (WORK GROUP NO. 150) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | GLAZING TO STEEL WITH PUTTY | | | |
| | 4mm "Sandblasted" glass puttied on | | | |
| 1 | Panes not exceeding 0.1m2 m² | 26 | | |
| | 6,38mm Laminated safety glass | | | |
| 2 | Panes exceeding 0,1m2 and not exceeding 0,5m2 m ² | 19 | | |
| | Carried Forward to Final Summary Section No. 3 Bill No. 14 GLAZING DEVELOPMENT BANK OF SOUTHERN AFRICA | | R | |

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| | SECTION NO. 3 | | | |
| | BILL NO 15 | | | |
| | PAINTWORK | | | |
| | (WORK GROUP NO. 152) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | <u>Descriptions</u> | | | |
| | Descriptions of paintwork shall be deemed to include for all cutting in | | | |
| | PREPARATORY WORK TO EXISTING WORK | | | |
| | Plaster or concrete surfaces | | | |
| | Surfaces shall be thoroughly cleaned down by high pressure water jet and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed. All existing walls to be made good where damaged by removals, furniture, etc, and all screw and nail holes and cracks shall be opened, primed with plaster primer, filled with a suitable filler and finished smooth | | | |
| | <u>Metal surfaces</u> | | | |
| | Surfaces shall be thoroughly rubbed and cleaned down by means of grit blasting or wire brushing. Blistered or peeling paint, including all traces of corrosion, shall be completely removed down to bare metal | | | |
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| | COLOURS | | | | |
|---|--|----|-----|---|--|
| | Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards | | | | |
| | SMOOTH PLASTER OR CONCRETE SURFACES WITH | | | | |
| | One coat alkali resistant plaster primer and two coats superior matt acrylic paint on | | | | |
| 1 | Internal walls | m² | 458 | | |
| 2 | Extra over for paintwork on components in the "Pastel" colour group for paintwork in the "Deep" colour group (Provisional) | m² | 478 | | |
| | ON PLASTER BOARD | | | | |
| | One coat alkali resistant plaster primer and two coats superior matt acrylic paint on | | | | |
| 3 | Internal plasterboard ceilings including priming nail heads | m² | 315 | | |
| | FIBRE-CEMENT SURFACES WITH | | | | |
| | Two coats pure acrylic paint on | | | | |
| 4 | Fascias and barge boards ("White" colour group) | m² | 37 | | |
| | METAL SURFACES WITH | | | | |
| | One coat galvanised iron primer and two coats super universal enamel paint on galvanised steel | | | | |
| 5 | Windows with burglar bars ("White" colour group) | m² | 90 | | |
| 6 | Door frames ("White" colour group) | m² | 7 | | |
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| 7 | General surfaces of structural steel ("White" colour group) | m² | 34 | | |
|----|--|----|-----|---|--|
| 8 | Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area) | m² | 15 | | |
| 9 | Extra over for paintwork on components in the "White" colour group for paintwork in the "Deep" colour group (Provisional) | m² | 124 | | |
| | WOOD SURFACES WITH | | | | |
| | One coat wood primer and two coats super universal enamel paint on | | | | |
| 10 | Doors | m² | 14 | | |
| 11 | Extra over for paintwork on components in the "Pastel" colour group for paintwork in the "Deep" colour group (Provisional) | m² | 14 | | |
| | Three coats suede woodcare ultra varnish on | | | | |
| 12 | Skirtings, rails, etc not exceeding 300mm girth ("Transparent" colour group) | m | 179 | | |
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| Item No | | Quantity | Rate | Amount R |
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| | SECTION NO. 4 | | | |
| | BILL NO 1 | | | |
| | ELECTRICAL INSTALLATION | | | |
| | (WORK GROUP NO. 160) | | | |
| | The Tenderer is referred to the relevant Clauses in the separate document General Preambles for Trades (2017 Edition) | | | |
| | For preambles tenderers are referred to the specification and drawings, accompanying these bills of quantities for the electrical work, for the full descriptions of the following items which are to be read and priced in conjunction with the said specification and drawings | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | Electrical and Mechanical | | | |
| | Where items include for taking down electrical and mechanical fittings the disconnection and making safe electrically is deemed to be included. Contractor to note items with barcodes (asset numbers) cannot be removed without prior arrangement with authorities | | | |
| | NOTE:- Contractor to note that items with barcodes, cannot be disposed or removed from site prior to arranging with principal agent | | | |
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| | Note:- Light fittings with diffusers are not to be installed as the diffusers never get cleaned. Bayonet caps are not to be used on any lamp. All luminaries shall have the SABS mark for the apparatus and or/the safety mark. All screws in bulkhead fittings shall be stainless steel screws in brass inserts. Self thread screws into the base are totally unacceptable. The bulkhead must at least have an IP 45 rating. The Dome Diffuser Ring must be fitted with self locating screws lugs. | | | | |
|---|---|----|----|---|--|
| | RETICULATION REQUIREMENTS | | | | |
| | <u>Kiosk</u> | | | | |
| 1 | Supply and installation of fibreglass weatherproof main kiosk as per sinlge line diagram | No | 1 | | |
| | COPPER CABLES | | | | |
| | Supply, delivery and laying of copper cables as specified, excluding terminations and cable supports. Lengths given shall be taken as measured lengths to cable runs from terminal to terminal and rates quoted shall include for off-cuts and wastage. These rates shall include for the laying of cables in trenches (trenches and backfilling measured elsewhere) | | | | |
| 2 | 50mm² x 4C/ECC/SWA/PVC/Cu | m | 85 | | |
| 3 | 16mm² x 2C/ECC/SWA/PVC/Cu | m | 45 | | |
| 4 | 10mm² x 2C/ECC/SWA/PVC/Cu | m | 15 | | |
| | TRENCHING | | | | |
| | Excavate cable sleeve trench at a minimum 450mm wide x 600mm deep including backfill compacted sifted sand in layers of 150mm to a minimum density of 98% MOD A.A.S.H.T.O. as specified | | | | |
| 5 | Excavations for trenches and holes | m | 85 | | |
| 6 | Extra over for soft rock | m | 12 | | |
| 7 | Extra over for hard rock | m | 12 | | |
| | Carried to Collection Section No. 4 Bill No. 1 ELECTRICAL INSTALLATION DEVELOPMENT BANK OF SOUTHERN AFRICA | | | R | |
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| | MULTICORE CABLE TERMINATIONS | | | | |
|----|--|----|----|---|---|
| | Including the supply and fitting of Pratley Cable gland, shroud, making off the cable and fitting the gland to gland plates, switchgear or equipment including final connections of cable tails with lugs onto board terminals and including earth in ECC cable, as per the specification, including keeping the trenches clear and free from water and an allowance for collapse of excavations | | | | |
| 8 | 50mm² x 4C/ECC/SWA/PVC/Cu | No | 16 | | |
| 9 | 16mm² x 2C/ECC/SWA/PVC/Cu | No | 8 | | |
| 10 | 10mm² x 2C/ECC/SWA/PVC/Cu | No | 10 | | |
| | SLEEVES | | | | |
| | Unplasticized polyvinyl chloride (UPVC) sleeve piping, including short lengths and cutting, laid in trench (trench and backfilling elsewhere measured) | | | | |
| 11 | 50mm Diameter | m | 5 | | |
| 12 | 70mm Diameter pipes | m | 45 | | |
| 13 | 110mm Diameter pipes | m | 85 | | |
| 14 | Extra over piping for 50mm long radius bend | No | 12 | | |
| 15 | Extra over piping for 70mm long radius bend | No | 4 | | |
| 16 | Extra over piping for 110mm long radius bend | No | 4 | | |
| | Marking Tape | | | | |
| 17 | Supply, deliver and install PVC marker tape suitable to be laid in cable trenches. 150mm Wide, yellow coloured and marked "DANGER: ELECTRICAL CABLE BELOW" | m | 60 | | |
| | <u>Manhole</u> | | | | |
| 18 | Construct 600mm x 600mm, 600mm deep manholes in specified positions | No | 4 | | |
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| | Testing and Commissioning | | | | |
|----|---|----|------|---|---|
| 19 | Allow for testing and commissioning the complete electrical installation and the issue of the Certificates of Compliance | | Item | | |
| | AREA LIGHTING REQUIREMENTS | | | | |
| | TRENCHING | | | | |
| | Excavate cable sleeve trench at a minimum 450mm wide x 600mm deep including backfill compacted sifted sand in layers of 150mm to a minimum density of 98% MOD A.A.S.H.T.O. as specified | | | | |
| 20 | In pickable materials | m | 85 | | |
| | COPPER CABLES | | | | |
| | Supply, delivery and laying of copper cables as specified, excluding terminations and cable supports. Lengths given shall be taken as measured lengths to cable runs from terminal to terminal and rates quoted shall include for off-cuts and wastage. These rates shall include for the laying of cables in trenches (trenches and backfilling measured elsewhere) | | | | |
| 21 | 10mm² x 2C/ECC/SWA/PVC/Cu | m | 255 | | |
| | MULTICORE CABLE TERMINATIONS | | | | |
| | Including the supply and fitting of Pratley Cable gland, shroud, making off the cable and fitting the gland to gland plates, switchgear or equipment including final connections of cable tails with lugs onto board terminals and including earth in ECC cable | | | | |
| 22 | 10mm² x 2C/ECC/SWA/PVC/Cu | No | 24 | | |
| | <u>SLEEVES</u> | | | | |
| | Unplasticized polyvinyl chloride (UPVC) sleeve piping, including short lengths and cutting, laid in trench (trench and backfilling elsewhere measured) | | | | |
| 23 | 50mm Diameter pipes | m | 15 | | |
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| | Marking Tape | | | | |
|----|---|----|------|---|--|
| 24 | Supply, deliver and install PVC marker tape suitable to be laid in cable trenches. 150mm Wide, yellow coloured and marked "DANGER: ELECTRICAL CABLE BELOW" | m | 3 | | |
| | <u>Luminaires</u> | | | | |
| 25 | Supply and install Floodlight Thorn 96231775 Sonpak LX 400W 230V HIT/E40/742 A/S or equal and approved | No | 18 | | |
| 26 | Supply and install LED Streetlight SWAN/STREETLED/65W/ 6048 LUMEN or equal and approved | No | 5 | | |
| | Testing and Commissioning | | | | |
| 27 | Allow for testing and commissioning the complete electrical installation and the issue of the Certificates of Compliance | | Item | | |
| | NEW DISTRIBUTION BOARDS | | | | |
| | Supply, installation and commissioning of Distribution Boards as specified, including making off all wire connections (external wiring, conduit, armoured cable and terminations given elsewhere) | | | | |
| 28 | Distribution Board DB-A as per Drawing | No | 1 | | |
| | SMALL POWER REQUIREMENTS | | | | |
| | Supply, install, connect, test and commission the complete small power installation as described in the specification and as described below: | | | | |
| | CONDUITS | | | | |
| | Flush mounted PVC conduit chased to walls. The price is to include for cutting, bending, setting, joining, and any other materials necessary for the successful completion of the installation. | | | | |
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| | Note: Drilling of structure is not permitted without the prior approval of the structural engineer. Any drilling of the structure without the prior approval of the Structural Engineer will result in the cost of all necessary remedial work and/ or replacement of structural members to be charged to the contractor's account. The above also applies to "Hilti" shot type fixings. | | | | |
|----|--|----|-----|---|--|
| 29 | 20mm diameter PVC conduit | m | 727 | | |
| | CONDUIT BOXES | | | | |
| | Supply and install conduit boxes for 20mm conduit with 1, 2, 3 or 4 way side entries, and or back entry including conduit connection. Allowance to be made for chasing of boxes on the wall surface. | | | | |
| 30 | 60mm PVC round boxes | No | 14 | | |
| 31 | 100 x 100mm Conduit box | No | 9 | | |
| | PVC WIRING CONDUCTORS | | | | |
| | Supply and install PVC insulated copper conductors as specified drawn into conduit. | | | | |
| 32 | 6mm² (red) | m | 36 | | |
| 33 | 6mm² (black) | m | 36 | | |
| 34 | 6mm² (green) | m | 36 | | |
| 35 | 4mm² (red) | m | 36 | | |
| 36 | 4mm² (black) | m | 36 | | |
| 37 | 4mm² (green) | m | 36 | | |
| 38 | 2.5mm² (red) | m | 727 | | |
| 39 | 2.5mm² (black) | m | 727 | | |
| 40 | 2.5mm² (green) | m | 727 | | |
| 41 | 1.5mm2 (red) | m | 12 | | |
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| 42 | 1.5mm2 (black) | m | 12 | | |
|----|---|----|-----|---|---|
| 43 | 1.5mm2 (green) | m | 12 | | |
| | <u>LIGHT FITTINGS</u> | | | | |
| | The supply, installation and termination of luminaires complete with lamps as indicated on the drawings. All fluorescents shall have cool white lamps. | | | | |
| 44 | Type "A" (2x49W 1500mm T5 open channel fluorescent luminaire with electronic gear and cool white lamps such Lighting Innovations ORLANDO INE-258 or similar approved). | No | 170 | | |
| 45 | Type "B" (13W LED IP65 Bulkhead luminaire with opal acrylic diffuser and black die-cast aluminium base such as BEKA 31 BULKHEAD 13W or similar approved). | No | 67 | | |
| 46 | Type "C" (21W, 2 500 Lumen LED IP65 Bulkhead luminaire with high impact poal acrylic diffuser and white die-cast aluminium base such as BEKA Series 300 21W or similar approved). | No | 13 | | |
| 47 | Up/Downlighter fitted with 2 x PL 18 W lamps -Equal to the Eurolux B148GT | No | 7 | | |
| | Switches, etc. complete with engraved/labelled cover plate fixed in 100x50mm galvanised flush box, and including flush box. | | | | |
| 48 | 16A One-lever one-way switch | No | 20 | | |
| | Switched socket outlets, etc complete with engraved/labelled cover plate fixed in a 100x100mm galvanised flush box and including flush box | | | | |
| 49 | 16A Three-pin double switched socket outlet, with white cover | No | 21 | | |
| 50 | 16A Three-pin single switched socket outlet, with white cover | No | 9 | | |
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| | Isolators, etc complete with engraved/labelled cover plate fixed in 100 x 100mm galvanised flush box, unless otherwise indicated. | | | | |
|----|---|----|------|---|--|
| 51 | 5A 3-pin socket outlet, complete with round outlet box of the number of ways required, fixed surface or flush mounted. | No | 9 | | |
| | PHOTO ELECTRIC CELL | | | | |
| 52 | Supply and install photocell complete with york box and accessories. | No | 9 | | |
| | General Earthing Requirements | | | | |
| 53 | Earthing and bonding of hot and cold water pipes and all other metal to comply with the SANS 10142-1 wiring code | | Item | | |
| | LIGHTNING PROTECTION INSTALLATION | | | | |
| | Supply and installation of the following items for the Lighning Protection installation. | | | | |
| 54 | 25mm PVC conduit | m | 86 | | |
| 55 | 100x100mm Conduit box | No | 22 | | |
| 56 | 1mm² Galvanised draw wire | m | 642 | | |
| | SUNDRIES | | | | |
| | Testing and commissioning | | | | |
| 57 | Allow for testing, balancing and commissioning the complete electrical installation | | Item | | |
| 58 | Allow for compliance of installation with all regulations and by-laws | | Item | | |
| | <u>ALTERATIONS</u> | | | | |
| | Carefully remove and disconnect existing fittings and prepare to install new | | | | |
| 59 | Fluorescent type fittings | No | 146 | | |
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| 60 | Bulkhead type fittings | No | 80 | | |
| 61 | Downlighter type fittings | No | 7 | | |
| 62 | Ceiling fans | No | 12 | | |
| 63 | Allow for disconnection of existing electrical conne buildings, stripping or electrical work in ceilings an and preparation for new work | ctions d roof | Item | | |
| 64 | Profit for attendance | | Item | | |
| 65 | Allow for disconnection and reconnection of existing alarm systems to Block B and D | ng | Item | | |
| 66 | Profit for attendance | | Item | | |
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| Section 4 - Electrical and Lightning Protection Installations | | | |
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| Item No | | Quantity | Rate | Amount R |
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| | SECTION NO. 5 | | | |
| | BILL NO 1 | | | |
| | PROVISIONAL SUMS ETC | | | |
| | SUPPLEMENTARY PREAMBLES | | | |
| | Under no circumstances may any Provisional or Budgetary amounts be extended at an amount lower than the amount given in the descriptions. | | | |
| | Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related therto. | | | |
| | Work for which budgetary allowances are provided will be measured and valued in accordance with the relevant JBCC Building Agreement and deducted in whole or in part if not required without any compensation for loss of profit on the said allowances | | | |
| | Prime cost amounts and provisional sums are net. Prime cost amounts shall include for delivery to site of all articles concerned Provisional sums are for material and equipment supplied and installed complete by firms of specialists | | | |
| | <u>Profit</u> | | | |
| | Where stated, the contractor may allow for profit if required | | | |
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| | Section No. 5 Bill No. 1 PROVISIONAL SUMS, ETC DEVELOPMENT BANK OF SOUTHERN AFRICA | | | |

| General attendance on nominated/selected subcontractors | | | |
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| The item "attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors the contractor's duties as described in clause 12.2 of the JBCC N/S Subcontract Agreement | | | |
| Special attendance on nominated/selected subcontractors | | | |
| Where "special attendance" such as unloading, storing, placing in position, providing special power supplies, specific hoisting, cranage and scaffolding requirements, provision of temporary casing and/or other specific protection of the works, special security and clearing away rubbish is required, a separate item describing the specific requirements in detail is to be provided for the pricing of such requirements | | | |
| Builder's work | | | |
| Builder's work in connection with specialist services is given elsewhere in these bills of quantities | | | |
| Selected Sub-contractors | | | |
| The Contractor's attention is drawn to the fact that the indicated individual provisional sums may consist of a number of Selected Sub-contractors, all of which will be executed by separate Selected Sub-contractors. The Contractor must therefore allow in his tender for any cost implication this may bring about, as no claims in this regard will be entertained. | | | |
| BUDGETARY ALLOWANCES | | | |
| Community Liason Officer | | | |
| Provide the sum of R 100 000.00 (One Hundred Thousand Rand) for Community Liaison Officer | Item | | |
| Profit on the above item | | % | |
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| 3 | Attendance on the above item | | % | |
|---|--|------|---|--|
| | PROVISIONAL SUMS FOR NOMINATED/SELECTED SUBCONTRACT WORKS | | | |
| | Sundry builders' work | | | |
| 4 | Provide an amount of R100 000.00 (One Hundred Thousand Rand) for sundry builders' work | Item | | |
| 5 | Profit on the above item | | % | |
| 6 | Attendance on the above item | | % | |
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| Section No. 5 | | | |
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