

Item No	Quantity	Rate	Amount
<u>SECTION NO. 1</u>			
<u>BILL NO. 1</u>			
<u>PRELIMINARIES</u>			
<u>NOTES</u>			
1. The Principal Building Agreement shall be the JBCC Series Edition 4.1, March 2005 as recommended by the Joint Building Contract Committee and as amended by this Tender Enquiry. 2. The Preliminaries shall be JBCC Series, May 2005 for use with the Principal Building Agreement as recommended by the Joint Building Contracts Committee and as amended by this Tender Enquiry shall be deemed to be incorporated herein. 4. Where standard clauses or alternatives are not entirely applicable to this contract, such modifications, corrections or additions as are necessary, are given as far as possible under each relevant clause heading. Additional Preliminary clauses are contained in Section C hereof. 3. Tenderers are referred to the above mentioned documents for the full intent and meaning of each clause thereof. These clauses are herein after referred to by clause number and heading only. 5. No claim whatsoever shall be entertained in respect of errors or omissions in pricing due to brevity of descriptions of items which are fully described when read in conjunction with the relevant clauses of the said Principal Building Agreement, Preliminaries and Preambles.			
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6. The Tenderers shall allow opposite each of the clauses whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out herein. Only priced items will be considered in respect of any adjustment of this Section. Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.

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

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

9. If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries, each item priced is to be allocated to one or more of the three categories by insertion of "F", "V", "T" as the case may be against the price in the "rate" column immediately preceding the "amount" column, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value, and "T" denotes an amount proportionate to time.

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**SECTION A: PRINCIPAL BUILDING
AGREEMENT**

DEFINITIONS

- 1 Definitions and interpretation (Clause 1).
Amendment to Sub-Clause C.1.10: Add the following new clause:
- C 1.10 The copyright in all contract documents, contract drawings and records (irrespective of who prepared any of the aforesaid) related in any manner to the works shall vest in the employer and the contractor shall not furnish any information in connection with the works to any person or organization without the prior written approval of the employer to this effect other than subcontractors appointed for purposes of this agreement.
- F V T

Item

- 2 OBJECTIVE AND PREPARATION
Offer, acceptance and performance (Clause 2)
- F V T

Item

Documents (Clause 3)
Amendment to Clause 3.1 is deleted and substituted with:
This tender is a Government Contract. No payment Guarantee will be provided'

Amendment to Clause 3.5 : Delete sub-clause 3.5

Amendment to Clause 3.7: Replace the second sentence starting in line 2 with the following:

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

"The contractor shall keep a copy of all drawings,schedules,unpriced bills of quantities/lump sum document,contract instructions,minutes of the site and other meetings,health and safety files as specified in the scope of work,risk register,claims and variation orders register,labour records and subcontractors contracts on the site to which the employer,principal agent and agents shall have access at all times.The employer has the right to call for such further information from the contractor it deems necessary in the even it carries out any investigation or audit into potential fraud,corruption,fronting,health and safety incidents or verifying information the contractor has to supply to the employer in terms of this agreement.The contractor has to supply to the employer in terms of this agreement.The contractor shall ensure a similar right for the employer with its subcontractors."

3 Amendment to Sub-Clause 3.10: In Sub-clause 3.10 in the

first line replace "Principal Agent" with "Employer"

F V T

Item

4 Design responsibility (Clause 4)

F V T

Item

5 Employer's agents (Clause 5)

F V T

Item

6 Site representative (Clause 6)

F V T

Item

Compliance with regulations (Clause 7)

Without limiting the generality of the provisions of clause 7.0 of the agreement, the contractors attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of the Occupational Health and Safety Act,1993 in which it is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The principal agent shall,on behalf of the employer, issue such health and safety specification and the contractor shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification, provided such provisions are reasonable in terms of the act and the regulations.

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Amendments to Clause 7:
Add the following new clause: Clause 7.3
Clause 7.3: "The Occupational Health and Safety Act No.85 of 1993 and the Construction Regulations 2014 will in all respect be applicable to this contract. All obligations in respect of health and safety requirements of the contractor are out in the scope of the work."

Add the following new sub-clause: Sub-Clause 7.3.1

- 7 Sub-Clause 7.3.1: "Notwithstanding any actions which the employer may take, the contractor accepts sole liability for due compliance with the relevant duties, obligations, prohibitions, arrangements and procedures imposed by the Occupational Health and Safety Act, 1993 (Act 85 of 1993), and all its regulations, including the Construction Regulations, 2014, for which the contractor is liable as mandatory. By entering into this agreement it shall be deemed that the parties have agreed in writing to the above provisions in terms of Section 37 (2) of the Act and will enter into the mandatory agreement as set out in the Scope of Work. This clause will be sufficient to establish the mandatory obligations of the contractor in the event the parties fail to execute the aforesaid mandatory agreement.

F V T

Item

7.1 Safety File (1.No)

7.2 Full Safety Officer (monthly provision) (1.No)

7.3 Barricading (Temporal Fencing)

7.3.1 Fence (M)

7.3.2 Shade Cloth (m2)

7.3.2 Gate (1.No)

7.4 Hiring of Toilet facilities 3.No (2.No for employees and 1.No for management and visitors)

7.4.1 Toilets Servicing (Weekly for the project duration)

7.5 First aid kit and refill (1.No)

7.6 Fire extinguisher (2.No x 4.5kg)

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7.7 Signage			
7.7.1 Construction Safety warning sign at the site entrance (1No)			
7.7.2 First aid kit sign (1.No)			
7.7.3 First aiders name (1.No)			
7.7.4 Assembly point sign (1.No)			
7.7.5 Fire extinguisher sign (2.No)			
7.7.6 Fire extinguisher Directional arrows (2.No)			
7.7.7 Demolishing in progress signs (3.No)			
7.7.8 Deep excavation signs (3.No)			
7.7.9 Danger tape (m) (length based on contractors measurements and needs for the project duration)			
7.7.10 Snow netting (m) (length based on contractors measurements and needs for the project duration)			
7.8 Personal Protective Equipment (As per contractors planned no. of employees)			
7.8.1 Safety boots			
7.8.2 Helmets			
7.8.3 Overalls			
7.8.4 Dust masks			
7.8.5 Reflector vests			
7.8.6 Gloves (rubber & leather)			
7.8.7 Safety harness			
7.8.8 Ear protection (ear muff & ear plucks)			
7.9 Waste Bins (2 xPlastic Bulk wheelie bins 120L)			
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	7.10 Copy of the Occupational Health and Safety Act to be displayed (1No.)			
	7.11 Providing a sheltered eating area			
	7.12 Training - NOSA			
	7.12.1 Safety representative training (1.No)			
	7.12.2 First aider Level 2 (1.No)			
	7.13 Other: Scaffolding provision (SANS 10085 compliant)			
	7.14 Asbestos Demolishing (specialists work)			
	Contractor to price in conjunction with OHSE Spec requirements			
8	Works risk (Clause 8) F V T	Item		
9	Indemnities (Clause 9) Amendment to Sub-Clause 9.1.1 is deleted and substituted with: 'Claims from other parties consequent upon death of bodily injury or illness of any person or physical loss or damage to any property, other than the works, arising out or due to the execution of the works or occupation of the site by the contractor or his sub contractors' F V T	Item		
10	Works insurances (Clause 10) F V T	Item		
11	Liability insurances (Clause 11) F V T	Item		
12	Effecting insurances (Clause 12) F V T	Item		
13	State Provisions (Clause 13) F V T	Item		
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14	Security (Clause 14) Amendments to Sub-Clause No.14.1: Retain sub-clause 14.1 but amend to read: The employer shall have the right to choose the security to be provided in terms of 14.3 or 14.4 as stated in the schedule. The contractor shall provide the security required or chosen by the employer in the schedule substantially in the format prescribed in the tender documents that the contractor submitted a tender offer. The required security shall be provided in the time period prescribed by the employer in the conditional letter of acceptance of the contractors tender offer." Amendments to Sub-Clause No.14.3: Retain clause 14.3 but in the last line of sub-clause 14.3.1 replace twelve point five (12.5%) with ten (10%) Amendments to Sub-Clause No.14.4: Retain clause 14.4 but in the last line of sub-clause 14.4.1 replace seven point five (7.5%) with ten (10%) Retain sub-clauses 14.5; 14.6 and 14.8 as is Amendments to Sub-Clause No.14.7: Retain sub-clause 14.7 but in sub-clause 14.7.1 in the second and third line amend two point five (2.5%) to read five (5%) Additional Sub-Clause 14.9: A payment reduction of five (5%) of the value of each payment certificate up to a maximum of five (5%) of the contract sum will be applied until practical completion. At practical completion the amount withheld will be reduced to two pointfive (2.5%), which amount will reduce to nil (0%) when the final account is issued F V T.....			
15	Preparation for and execution of the works (Clause 15) Amendments to Sub-Clause 15.1: In sub-clause 15.1 replace principal agent with employer F V T	Item		
16	EXECUTION Access to the works (Clause 16) F V T	Item		
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17	Contract instructions (Clause 17) F V T	Item		
18	Setting out of the works (Clause 18) The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc., exist in order that the necessary arrangements may be made for the rectification of any such encroachments. F V T	Item		
19	Assignment (Clause 19) F V T	Item		
20	Nominated subcontractors (Clause 20) F V T	Item		
21	Selected subcontractors (Clause 21) Amendments to Sub-Clause 21 : Replace sub-clause 21.1.2 to 21.1.4 and 21.2 and 21.6 with the following: The contractor and principal agent shall appoint a selected subcontractor in accordance with the provisions of the Scope of Work. F V T	Item		
22	Employer's Direct contractors (Clause 22) F V T	Item		
23	Contractor's Domestic subcontractors (Clause 23) Amendments to Sub-Clause 23.3: The contractor may not subcontract the whole of the work without the written instruction or approval of the employer. In such event the employer may require the contractor to cedethe contract to the subcontractor. Amendments to Sub-Clause 23.4: The subcontractors appointed by the contractor to comply with the developmental and transformation requirements from the employer in terms of applicable legislation, including but not limited to the Preferential Procurement Policy Framework Act, 5 of 2000, and regulation thereto, will be domestic subcontractors for purposes of this agreement, and sub-clauses 23.1 and 23.2 will apply accordingly." F V T	Item		
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COMPLETION

24	Practical completion (Clause 24) F V T	Item
25	Works completion (Clause 25) F V T	Item
26	Final completion (Clause 26) F V T	Item
27	Latent defects liability period (Clause 27) Clause 27.0 is amended by the addition of the following clauses: "27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations". "27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accumulates in order to attend to a comprehensive list of defects" F V T	Item
28	Sectional completion (Clause 28) F V T	Item
29	Revision of date for practical completion (Clause 29) F V T	Item
30	Penalty for non-completion (Clause 30) Amendments to Sub-Clause 30.1: "Replace reference to 36.3 at end of sentence with 36.0" F V T	Item

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PAYMENT

31 Interim payment to the contractor (Clause 31)
The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.3 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank.

Where prices are submitted by the contractor or nominated/selected sub contractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing.

Amendments to Sub-Clause 31.9:
Sub-clause 31.9 is hereby amended by the substitution of the words "seven (7) calendar days" in the first line by the words "thirty (30) calendar days"

Amendments to Sub-Clause 31.12: Delete Payment shall
be subject to the employer giving the contractor a tax invoice for the amount due.

F V T

Item

32 Adjustment to the contract value (Clause 32)
F V T

Item

33 Recovery of expense and loss (Clause 33)
F V T

Item

34 Final account and final payment (Clause 34)
Clause 34.1 is amended as follows:
'The principal agent shall prepare a final account for submission to the contractor within one hundred and twenty (120 working days).'

Amendments to Sub-Clause 34.13:
Delete the words in sub-clause 34.13 subject to the employer giving the contractor a tax invoice for the amount due

F V T

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CANCELLATION

35	Payment to other parties (Clause 35) F V T	Item		
36	Cancellation by Employer - Contractor's default (Clause 36) F V T	Item		
37	Cancellation by Employer - Loss and damage (Clause 37) F V T	Item		
38	Cancellation by Contractor - Employer's default (Clause 38) F V T	Item		
39	Cancellation - Cessation of the works (Clause 39) Amendments to Sub-Clause 39.2:Delete the third sentence and replace with the following: The employer shall pay the contractor all amounts due in terms of the contract for work completed at the date of termination or cancellation in terms of this clause 39.2, including retention money after deducting any amounts due to the employer. The employer will also return any guarantees still valid to the contractor after such cancellation. Amendments to Sub-Clauses 39.2.1 to 39.2.3: "No Clause" F V T	Item		

DISPUTE

40	Dispute Settlement (Clause 40) Amendments to Clause 40: Retention of clause 40 Clause 40 in respect of dispute settlement to be retained in its original form not applying the state clause amendments. F V T	Item		
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SUBSTITUTE PROVISIONS

41 State clauses (Clause 41)
Amendments to Clause 41:
Clause 41 State Substitutions is amended as set out below with reference to sub-clause 41.1 or the original clause number stated therein.

Amendments to Sub-Clause 41.1.3:
"Delete the definition for CONSTRUCTION PERIOD"

Add new Sub-Clause 41.1.4:
"Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor, or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a stated date and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever."

F V T

Item

42 **CONTRACT VARIABLES**
The Schedule: Pre-Tender information (Clause 42)
F V T

Item

CONTRACTING PARTY (Clause 42.1)
Employer: Development Bank of Southern Africa
Postal Address: P.O.Box 1234, Halfway House Midrand, 1685
Telephone: 011 313 3911
Facsimile: 011 313 3086
Physical address: 1258 Lever Road, Headway Hill, Midrand, 1685

CONTRACT DETAILS (Clause 42.2)
Clause 42.2.1
Works Description: The project involves the demolition of the existing prefabricated classrooms and the construction of a new school located at 40 Goede Hoop Street, Jacobs, Bluff in the Kwa-Zulu Natal province.

Clause 42.2.2
Site Description: The Works in this Contract is located at 40 Goede Hoop Street, Jacobs, Bluff in the Kwa-Zulu Natal province.

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Clause 42.2.3
Work or Installations by Others: NO

Clause 42.2.4
This Agreement is for a State Contract :- YES

Payment will be made for materials and goods:- YES

Dispute resolution :- Mediation (in terms of 40.4)
followed by litigation.

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

Clause 42.2.5

Date on which possession of the site is intended to be
given on:-
3 working days from the date of the letter of
appointment to the Contractor.

Clause 42.2.6
Period for the commencement of the works after the
contractor takes possession of the site :- 3 Working
days.

Clause 42.2.7
Intended date of practical completion and the penalty
per calendar day for the works as a whole :-

380 working days after commencement
Penalty amount R13,260.00 per calendar day

Clause 42.2.8
Intended dates of practical completion and the penalties
per calendar day for the works in sections : N/A

Clause 42.2.9
The law applicable to this agreement shall be that of -
South Africa.

INSURANCES
Clause 42.3.1
Contract works insurance to be effected by Contractor
for the sum of: Contract Sum plus 20%

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Clause 42.4.7
Details of changes made to the provisions of JBCC standard documentation:
Note: The tenderer must study the modifications and amendments made to the relevant clauses in the Preliminaries section of the Bills of Quantities, under each clause heading. It should be noted that reference is made hereunder merely to draw the tenderers attention of clauses that have been amended or modified and the tenderer, when submitting his tender is deemed to have examined the relevant clauses for details of the amendments and modifications of the clauses in the Preliminaries:

Refer to relevant clauses for the full details of changes:
Clause 3 - Documents

Clause 7 - Compliance with regulations

Clause 9 - Indemnities

Clause 18 - Setting out of the Works

Clause 27 - Latent defects liability period

Clause 31 - Interim Payment to the Contractor

Clause 34 - Final account and final Payment

SECTION B: PRELIMINARIES

43 DEFINITIONS AND INTERPRETATION (B1)
F V T

Item

DOCUMENTS (B2)

44 Checking of documents (B2.1)
Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc.

F V T

Item

45 Provisional Bills of Quantities (B2.2)
Clause 2.2 is deemed to be deleted and replaced by the following:
"Except where indicated otherwise, the quantities of and

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classes and kinds of works set out in these Bills of Quantities are provisional and do not purport to represent the final quantities of and classes and kinds of work eventually required to be done. The quantities of and classes and kinds of work contained herein have been set down solely in order to form a basis for obtaining competitive tenders.

The Bills of Quantities are not to be used for ordering materials under any circumstances whether this be with regard to description or specification of materials or goods required, or with regard to quantities. Failure to comply with this condition is entirely at the Contractor's own risk. The Contractor shall be obliged upon instruction of the Principal Agent to execute such quantities of and classes and kinds of work as the Principal Agent in his sole discretion may deem necessary or which, in the Principal Agent's opinion, become expedient from time to time or which may be required to meet the Employer's requirements, whether or not such quantities of and classes or kinds of work may appear in these Bills of Quantities or the contract drawings.

The consideration payable to the Contractor in respect of the works shall be determined by the Agent by the application of the rates contained in the priced Bill of Quantities to the quantities of and classes and kinds of work actually executed, which quantities of and classes and kinds of work shall be determined by the Agent. The rates contained in the priced Bills of Quantities shall apply irrespective of the final quantities of the different classes and kinds of work actually executed. No claims for extras, loss of profit, variation of rates or other similar claims will be entertained as a result of any variations whatsoever between the quantities of work set out in these Bills of Quantities and the quantities of work actually executed, nor as a result of any variation whatsoever between the contract sum and the final value of works.

Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., or loss of profit related thereto.

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46	Availability of construction documentation (B2.3) F V T	Item		
47	Interests of Agents (B2.4) F V T	Item		
48	Priced documents (B2.5) F V T	Item		
49	Tender submission (B2.6) Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 90 (Ninety) calendar days from the closing date of tenders. F V T	Item		
<u>THE SITE (B3)</u>				
50	Defined works area (B3.1) The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site. The Tenderer shall ascertain any other restrictions to the area that may be occupied by the Contractor including any restrictions imposed by any buildings, etc. And any limitations or restrictions that may be imposed by any Authorities Workmen employed on the site are to be restricted to the immediate area of the site and access thereto. Space on the pavement areas for the storage of building materials, etc., must be arranged with the Local Authorities by the Tenderer who will be responsible for all charges in connection therewith. The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted. F V T	Item		
51	Geotechnical investigation (B3.2) F V T	Item		
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52	Inspection of the Site (B3.3) No Claim for extras arising from the contractor having failed to comply with the clause will be entertained. F V T	Item		
53	Existing premises occupied (B3.4) - NO F V T	Item		
54	Previous work - dimensional accuracy (B3.5) F V T	Item		
55	Previous work - defects (B3.6) F V T	Item		
56	Services - known (B3.7) F V T	Item		
57	Services - unknown (B3.8) F V T	Item		
58	Protection of trees (B3.9) F V T	Item		
59	Articles of value (B3.10) F V T	Item		
60	Inspection of adjoining properties (B3.11) The Tenderer shall inspect access roads, etc and shall be responsible for any damage evident at the end of the contract which has not been pointed out. F V T	Item		
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MANAGEMENT OF CONTRACT (B4)

- 61 Management of the Works (B4.1)
 Clause 4.1 shall be deemed to be amended by the addition of the following:
- The contractor shall, to the satisfaction of the principal agent, provide the services of an experienced and competent Construction Manager and Site Agent supported by a management team who shall inter alia be responsible for all activities of the contractor and all sub-contractors and in particular:-
- a) Programming
 - b) Scheduling
 - c) Reporting
 - d) Production of shop drawings and samples
 - e) Procurement and expediting
 - f) Liaison and co-ordinating of construction
 - g) Commissioning, instruction, handover and follow up.
 - h) Monitoring and reporting on building activities taking place off site.
- The names and CV's on the contractor's site management team shall be submitted to the principal agent prior to commencement on site and, after the principal agent's agreement on the composition thereof has been obtained. No changes shall be made nor shall any member of the said team be removed from site while remaining in employ of the contractor without the principal agent's express written approval.
- F V T

Item

- 62 Programme for the Works (B4.2)
 F V T

Item

- 63 Progress meetings (B4.3)
 F V T

Item

- 64 Technical meetings (B4.4)
 F V T

Item

- 65 Labour and Plant Records (B4.5)
 F V T

Item

SAMPLES AND SHOP DRAWINGS (B5)

- 66 Samples of materials (B5.1)
 F V T

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67	Workmanship samples (B5.2) F V T	Item
68	Shop drawings (B5.3) F V T	Item
<u>TEMPORARY WORKS AND PLANT (B6)</u>		
69	Deposits and fees (B6.1) F V T	Item
70	Enclosure of the works (B6.2) The contractor shall erect, maintain and remove at completion - hoarding, safety screens, barriers, access gates, covered gangways and the like as necessary for the protection of the public and others. F V T	Item
71	Advertising (B6.3) F V T	Item
72	Plant, equipment, sheds and offices (B6.4) F V T	Item
73	Main notice board (B6.5) One notice board shall be provided. F V T	Item
74	Subcontractors' notice board (B6.6) F V T	N/A
75	TEMPORARY SERVICES (B7) Location (B7.1) F V T	Item
76	Water (B7.2) The contractor shall provide water for the works in accordance with: Alternative A - (i.e. to be provided for by the Contractor) F V T	Item
77	Electricity (B7.3) The contractor shall provide electricity for the works in accordance with: Alternative A - (i.e. to be provided for by the Contractor) F V T	Item

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78	Telecommunication equipment (B7.4) The contractor shall provide telephones on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor) F V T	Item		
79	Ablution facilities (B7.5) The contractor shall provide toilet facilities on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor) F V T	Item		
80	PRIME COST AMOUNTS (B8) Responsibility for prime cost amounts (B8.1) F V T	Item		
81	ATTENDANCE ON N/S SUBCONTRACTORS (B9) General Attendance (B9.1) Clause 9.1 shall be amended by the addition of the following: a) Provide every assistance necessary for the due performance by all sub-contractors of their work and to enable them to execute their work in a like manner, in a proper order and sequence. b) Supervise and administer the sub-contractors and arrange and monitor programmes with each subcontractor and supplier and co-ordinate the work of all sub-contractors and deliveries by suppliers. c) Attendance on Nominated/Selected sub-contractors includes co-operating to the fullest extent with all parties and providing facilities for general attendance. F V T	Item		
82	Special Attendance (B9.2) F V T	Item		
83	Commissioning - fuel, water and power (B9.3) F V T	Item		
84	FINANCIAL ASPECTS (B10) Statutory taxes, duties and levies (B10.1) Provision is made in the Final Summary of these Bills of Quantities for the inclusion of Value Added Tax (VAT). F V T	Item		
85	Payment of Preliminaries (B10.2) F V T	Item		
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86	Adjustment of Preliminaries (B10.3) F V T	Item		
87	Payment certificate cash flow (B10.4) F V T	Item		
88	GENERAL (B11) Protection of the Works (B11.1) F V T	Item		
89	Protection/isolation of existing/sectionally occupied works (B11.2) F V T	Item		
90	Security of the Works (B11.3) F V T	Item		
91	Notice before covering work (B11.4) F V T	Item		
92	Disturbance (B11.5) F V T	Item		
93	Environmental Disturbance (B11.6) F V T	Item		
94	Works cleaning and clearing (B11.7) F V T	Item		
95	Vermin (B11.8) F V T	Item		
96	Overhand work (B11.9) F V T	Item		
97	Instruction Manuals and Guarantees (B11.10) F V T	Item		
98	As Built Information (B11.11) F V T	Item		
99	Tenant Installation (B11.12) F V T	Item		
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100	SCHEDULE OF VARIABLES (B12) Pre-tender information (B12.1) Information necessary for elections and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given, it shall mean that either no details are available or that the clause is not relevant to this specific contract. F V T..... Provisional bills of quantities (B2.2) The quantities are provisional - YES Availability of construction documentation (B2.3) Interests of agents (B2.4) Defined works area (B3.1) Tenderers shall establish by personal viewing of the site conditions any restrictions imposed by existing buildings, limited means of access and the like. Geotechnical investigation (B3.2): - N/A Existing premises occupied (B3.4): - NO Services - Known (B3.7) Protection of trees (B3.9) Inspection of adjoining properties (B3.11) Enclosure of the works (B6.2) Office accommodation for meetings (B6.4.3) Main notice board (B6.5) One main notice board shall be provided as per the details provided herewith. Subcontractors' notice board (B6.5) A notice board is required (No). Water (B7.2) Alternate chosen: A	Item			
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101	Electricity (B7.3) Alternate chosen: A Telecommunication facilities (B7.4) Alternate chosen: A Ablution facilities (B7.5) Alternate chosen: A Special attendance (B9.2) Protection of the works (B11.1) Protection/isolation of existing/sectionally occupied works (B11.2) Disturbance (B11.5) <u>SECTION C: SPECIFIC PRELIMINARIES</u> <u>Section C: Specific Preliminaries:</u> C1. Proprietary branded products The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative. F V T	Item		
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102	C2. Trade Names, etc. All materials, fittings, finishings, etc., specified hereinafter under a trade name, catalogue number or reference, shall be OR EQUALLY APPROVED by application to the Principal Agent, Pre-tender. The Architect's approval in writing must be obtained for the use of any alternative to the specification before the submission of tenders otherwise the specified materials, fittings, finishings, etc., will be assumed to have been allowed for in the tender. The Contractor must take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative. F V T	Item		
103	C3. Contractors responsibility The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The Contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved. F V T	Item		
104	C4. 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		
105	C5. As built drawings The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records. Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion. F V T	Item		
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106	C6. Contract 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) Contract 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 counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor. F V T	Item	
107	C7. 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. F V T	Item	
108	C8. Plant record 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. F V T	Item	
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109	C9. 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. F V T	Item		
110	C10. 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. F V T	Item		
111	C11. 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. F V T	Item		
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112	C12. Mode of Procedure 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			
113	C13. Shop Drawings The term 'shop drawings' shall mean drawings, layout drawings, diagrams, illustrations, schedules, performance charts, brochures, operating manuals and other data which are prepared by the Contractor or any Sub-Contractor, manufacturer, supplier or distributor and which illustrate the specified portion of the work. The Contractor shall ensure that all shop drawings required for the Works in terms of this Contract, all Selected/Nominated Sub-Contracts and/or any Principal Agent's instruction, are prepared and submitted timeously in accordance with the following procedure: (a) Three prints of shop drawings of all fabricated work, working or setting out drawings, shop details and schedules shall be submitted to the Principal Agent, for approval. Such work shall not be carried out until such approval has been given. (b) Shop drawings shall be submitted to the Principal Agents for approval at least two weeks prior to the date on which such approval is required in order to comply with the Contract Programme.	Item	Item	
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(c) All submissions shall be prepared in accordance with the Contract drawings and specifications and/or any Principal Agents instructions and any deviation shall be specifically highlighted in writing, with a detailed explanation of the reason for such deviation, together with any cost and/or time implications.

Delays in approval of shop drawings due to non-compliance with drawings, specifications and/or Principal Agents instruction shall not constitute grounds for any claims for delay, extension of time and the like.

(d) When the Principal Agent advises that shop drawings have been approved, the original transparencies of such drawings shall immediately be submitted to the Principal Agent so that the Principal Agent's stamp of approval may be appended thereto. Thereafter, four prints of the approved shop drawings, setting out drawings and schedules shall be furnished to the Principal Agent. As many prints of the approved shop drawings and schedules as required shall also be furnished to the Works. No work shall be performed in accordance with drawings and/or catalogues not stamped with the Principal Agent's approval.

(e) The Contractor, Sub-Contractor or Supplier, as the case may be, shall be responsible for ensuring that all dimensions affecting shop drawings conform to the dimensions of built work.

(f) The Architects approval of shop drawings is limited to checking conformity with specification and shall not relieve the Contractor, Sub-Contractor or Supplier of his responsibility for design, erection or installation fit, nor does it vary his contractual or delictual obligations and liabilities.

(g) Should the Contractor, Sub-Contractor or Supplier be of the opinion that corrections to shop drawings made by the Architect constitute a change to the scope of work, then he shall immediately advise the Architect in writing of this, together with the cost and/or programme implications thereof, in order to obtain the Architects directive.

114 (h) One additional copy of the final approved set of 'Shop drawings' is to be submitted to the Quantity Surveyors for purposes of valuation remeasurement.
F V T

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**COLLINGWOOD PRIMARY SCHOOL
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115	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		
116	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. F V T	Item		
117	C16. Making Good All materials and workmanship in building up, making good, etc., are to match existing and where new materials abutt 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.	Item		
118	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		
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119	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. F V T	Item		
120	C19. Overloading	Item		
121	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. F V T	Item		
122	C18. Removal and Making Good of Temporary Works, etc, on CompletionThe Contractor shall remove (except where specifically stated otherwise) all temporary Works, roads, services and the like used for this Contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom. F V T	Item		
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123	C20. Tender Sum to be Fully Inclusive 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 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. F V T	Item	
124	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. F V T	Item	
125	C22. Media Releases	Item	
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126 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

127 C23. Guarantees and Maintenance Manuals
The Contractor shall obtain and hand over to the Principal Agent on Practical Completion, all relevant guarantees, an 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.
F V T

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128	C24. Occupational Health and Safety Act 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 T 2.3.8 of these Bills of Quantities F V T	Item			
129	C25. Employment of Local Sub-contractors & SMME's Tenderers are to take cognisance of the regulations and conditions of contract pertaining to sub-contracting contained in the tender data, T2.4.2, C3.3 and is to allow for the costs of fulfilling these requirements under this specific clause. F V T	Item			
130	C26. Notes to tenderers Items which the Tenderer wishes to price in order to provide for the due observance of the requirements of the "Part T1: Tendering Procedures" outlines at the beginning of this Bill may be priced under this item: F V T	Item			
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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**COLLINGWOOD PRIMARY SCHOOL
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20	Danger tape (m) (length based on contractor's measurements and needs for the project duration)	SUM
21	Snow netting (m) (length based on contractor's measurements and needs for the project duration)	SUM
22	Personal Protective Equipment (As per contractor's planned no. of employees)	SUM
23	Safety boots (including steel toed rubber boots for wet works)	SUM
24	Helmets	SUM
25	Overalls (two sets annually)	SUM
26	Dust masks	SUM
27	Reflector vests (two sets annually)	SUM
28	Gloves (rubber & leather)	SUM
29	Safety harness	SUM
30	Ear protection (ear muff & ear plucks)	SUM
31	COVID-19 cloth masks (issue 2 every three months)	SUM
32	Waste Bins (Plastic Bulk wheelie bins 120L)	SUM
33	COVID-19 waste bins (20L bins with lids)	SUM
34	Conducting COVID-19 screening for the project duration	SUM
35	Copy of the Occupational Health and Safety Act to be displayed	SUM
36	Providing a sheltered eating area (allow social distancing, at staggered break times)	SUM
37	COVID-19 screening infrared thermometers (Replace annually)	SUM
38	Hand sanitizers, surfaces disinfectants, hand soaps for the project duration	SUM
39	Providing COVID-19 Isolation Room	SUM
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**COLLINGWOOD PRIMARY SCHOOL
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HEALTH AND SAFETY

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**COLLINGWOOD PRIMARY SCHOOL
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<u>BILL NO. 1</u>			
<u>EARTHWORKS</u>			
<u>PREAMBLES</u>			
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>NATURE OF GROUND</u>			
A soil investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed include all ground conditions classifiable as "earth" described in the above report and/or filling compacted up to 95% modified AASHTO density, but possibly interspersed with "hard rock" or "soft rock". Descriptions of excavations shall be deemed to include for setting aside surplus excavated material in spoil heaps for use as filling or for depositing within 150m of the perimeter of the excavations and spreading and roughly levelling as directed, as well as for increase in bulk and multiple handling of excavated material caused by the contractor's method of operation.			
<u>SUBTERRANEAN WATER</u>			
No information on subterranean water is available. The tenderer must acquaint himself of the presence and depth of subterranean water and allow therefor in his prices			
<u>CARTING AWAY OF EXCAVATED MATERIAL</u>			
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site and for bulking.			
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WORKING SPACE

Working space for formwork to sides of all concrete, except columns, shall be measured only where the concrete face is less than 750mm from the face from the measured excavations

Working space for formwork to sides of columns shall be measured for the width of the column face only where both:

(a) The top of the column base is more than 1,5m below the commencing level of the excavations and

(b) The column face is less than 500mm from the face of the measured excavation

No claim shall be considered for any working space for formwork to concrete other than as above described or for working space beyond the sides of trench excavations for the building of brick or block walls.

Descriptions of excavations for working space shall be deemed to include for any additional risk of collapse so incurred and for the returning and compacting of the excavated material as described.

SOIL POISONING

The contractor will be required to provide a guarantee from a registered (member of SAPCA) soil poisoning company for the soil insecticide and weed killing applications

REMOVAL OF EXISTING WORK:

NATURE OF WORK Tenderers are advised to visit the site and to satisfy themselves as to the nature and extent of the work to be done and provide in their tenders for any items not specifically mentioned which they may deem necessary for the proper completion of the work. Tenderers are advised that the existing building will be in occupation during the progress of the work and due allowance must be made for the work being carried out at such times and in such manner as will least interfere with the routine of the occupants and as may be directed by the Quantity Surveyor.

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DIMENSIONS The Contractor is advised to take all dimensions affecting the existing buildings on the site, as he will be held solely responsible for all new work being of the correct sizes.

PIPES, ETC. Special care is to be taken not to interfere unnecessarily with any water supply pipes or other piping that may be met with and found necessary to disconnect or cut, are to be effectively stopped off and any new connections that may be necessary are to be made with proper fittings and to the satisfaction of the Quantity Surveyor to whom due notice must be given of any alterations to the existing services.

PROTECTION In taking down and removing existing work the utmost care is to be observed to avoid any structural or other damage to the remaining portions of the buildings. The Contractor must also protect all work not removed such as walls, floors, doors, windows or other joinery, loose and fixed fittings and electrical appliances, etc., from damage during the progress of the work and provide all necessary materials for so doing. The Contractor will be held solely responsible for any damage to persons or property and for the safety of the structure throughout the whole of this Contract and must make good at his own expense any damage that may occur.

CREDITS, ETC. Old materials from the pulling down (except such as are described to be re-used or handed over) are to become the property of the Contractor who shall allow credit as provided for in the summary at the end of these Bills of Quantities. Old materials for re-use are to be carefully removed, stored and protected from injury including making good any damaged or defective parts as required before refixing. Old materials described to be handed over are to be carefully removed and neatly stacked on site where directed. The remainder of the old materials and all rubbish to be immediately carted away and the site left clean and unencumbered. None of the old stock bricks from the pulling down are to be re-used for any new work.

EXCAVATIONS

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Excavate in earth not exceeding 2m deep</u>			
1	Trenches	m3	1 337	
2	Thickening under surface beds etc	m3	1	
	<u>Extra over trench and hole excavations in earth for excavations in</u>			
3	Soft rock	m3	135	
4	Hard rock	m3	67	
	<u>Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 75% Mod AASHTO density</u>			
5	Exceeding 1m and not exceeding 2m deep for placing and removing formwork to walls etc, 500mm away from excavated face	m2	1 623	
	<u>Extra over all excavations for carting away</u>			
6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	1 337	
	<u>Risk of collapse of excavations</u>			
7	Risk of collapse of sides of excavations for trenches and holes from natural, elevated or reduced ground level to not exceeding 1,5m deep	m2	1 623	
	<u>Keeping excavations free of water</u>			
8	Allow for keeping all excavations entirely free from water and mud		Item	
	<u>FILLING</u>			
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93 % Mod AASHTO density</u>			
9	Backfilling to trenches, holes, etc	m3	1	
	<u>Filling of gravel-soil material G7 supplied by the contractor, compacted to 97% Mod AASHTO density</u>			
10	Under floors, steps, paving etc.	m3	902	
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

11	Backfilling to trenches, holes, etc <u>Coarse dry, clean, washed riversand filling supplied by the contractor and evenly spread, levelled, watered and rammed to receive waterproof membrane (elsewhere)</u>	m3	331		
12	Under floors etc. <u>Compaction of surfaces</u>	m3	18		
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density <u>Prescribed density tests on filling</u>	m2	1 765		
14	"Modified AASHTO Density" tests <u>SOIL POISONING</u> <u>Soil insecticide</u>	No	21		
15	Soil insecticide applied and mixed in the proportion and rate as specified under floors, etc including forming and poisoning shallow furrows against foundation walls, etc and filling in furrows and ramming	m2	1 765		
16	Soil insecticide applied and mixed in the proportion and rate as specified to bottoms and sides of trenches, holes etc <u>Approved weedkiller mixed and applied strictly in accordance with the manufacturer's instructions</u>	m2	365		
17	Under paving, etc	m2	1 765		
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Section No. 2 SINGLE STOREY CLASSROOMS (BLOCK A,C,D,E & I) Bill No. 1 EARTHWORKS					

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

Section No. 2

Bill No. 1

EARTHWORKS

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<u>SECTION NO 2</u>			
<u>BILL NO. 2</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>PREAMBLES</u>			
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Cost of tests</u>			
The cost of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the representative/agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the representative/agent. (Test cubes are measured seperately)			
<u>Lightweight concrete</u>			
Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated			
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Formwork

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 re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.

Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"

CONCRETE

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

15MPa/19mm concrete

1	Surface blinding under footings and bases	m3	74	
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REINFORCED CONCRETE

25MPa/19mm concrete

2	Steps, urinal steps, cupboard platforms, etc	m3	17	
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3	Strip footings	m3	110	
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30MPa/19mm concrete

4	Surface beds on waterproofing	m3	115	
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SINGLE STOREY CLASSROOMS (BLOCK A,C,D,E & I)
Bill No. 2
CONCRETE, FORMWORK AND REINFORCEMENT

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

5	Filling 50mm cavity walls reinforced with fabric or steel bars (fabric reinforcement and steel bars elsewhere measured) "Labour Intensive"	m3	2		
	<u>CONCRETE TEST CUBES</u>				
6	Prepare set of three 150 x 150 x 150mm concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional)	No	24		
	<u>SUNDRIES</u>				
	<u>Curing surfaces of concrete with abe dura-cure curing compound applied at a rate of 0.11l/m²</u>				
7	Various components	m2	1 372		
	<u>Finishing top surfaces of concrete smooth with a power float</u>				
8	Surface beds, slabs, etc	m2	493		
	<u>FORMWORK</u>				
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>				
	<u>Rough formwork to sides</u>				
9	Strip footings (Provisional)	m2	415		
	<u>MOVEMENT JOINTS</u>				
	<u>Malthoid slip joints between horizontal concrete and brick surfaces including cement mortar bed</u>				
10	Not exceeding 300mm wide	m	750		
	<u>REINFORCEMENT</u>				
	<u>Mild steel reinforcement to structural concrete work</u>				
11	16mm Diameter bars	t	1.00		
12	12mm Diameter bars	t	0.20		
13	10mm Diameter bars	t	0.20		
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**COLLINGWOOD PRIMARY SCHOOL
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Bill No. 2

CONCRETE, FORMWORK AND REINFORCEMENT

R

Concrete masonry units

Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7MPa

Wall ties for blockwork

Wall ties shall be polypropylene ties complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other

Blockwork

Blockwork shall comply with SANS 10145 "Concrete Masonry Construction"

Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole

Standard complementary blocks

Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary

DECORATIVE BLOCKS

Blocks shall be of approved manufacture, sound, well burnt or cured and uniform and true in size, shape and colour

BRICKWORK

FOUNDATIONS

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SINGLE STOREY CLASSROOMS (BLOCK A,C,D,E & I)
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MASONRY

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Loadbearing brickwork of NFX bricks (21 MPa nominal compressive strength) in class I mortar</u>				
1	230mm brickwall	m2	14		
2	270mm hollow walls of two half brick skins including wire ties	m2	236		
	<u>Brick reinforcement</u>				
3	Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	5 477		
4	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	619		
	<u>SUPERSTRUCTURE</u>				
	<u>Brickwork of NFP bricks (21 MPa nominal compressive strength) in class I mortar</u>				
5	Half brick walls	m2	126		
6	Half brick walls in beamfilling	m2	1		
7	230mm brickwall	m2	431		
8	230mm Hollow walls of two half brick skins including wire ties	m2	269		
9	270mm Hollow walls of two half brick skins including wire ties	m2	1 631		
	<u>SUNDRIES</u>				
10	Splayed mortar fillet one course high in 40mm cavity	m	842		
11	Splayed mortar fillet four courses high in 170mm cavity to seat	m	75		
12	Extra for building brickwork to oversailing face with each course projecting 10mm at jambs	m2	15		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

13	Extra for building brickwork to oversailing face with each course projecting 20mm at over cills and head	m2	15
14	Closing 50mm cavity of 270mm hollow wall vertically with one course of brickwork at jambs	m	681
15	Closing 50mm cavity of 270mm hollow wall horizontally with one course of brickwork at top	m	531
	<u>Brick reinforcement</u>		
16	Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	9 773
17	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	1 117
	<u>Prestressed concrete lintels including temporary supports</u>		
18	145 x 75mm Lintels in lengths not exceeding 1.5m	m	356
19	145 x 75mm Lintels in lengths exceeding 1,5m not exceeding 3.0m	m	105
	<u>Turning piece</u>		
20	230mm Turning piece to lintels etc.	m	210
	<u>Galvanised hoop iron cramp ties etc.</u>		
21	30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end built into brickwork	No	207
22	30 x 1,6mm Wall tie 0.9m long with T shaped end built into external cavity wall the other end set into brickwork	No	581
23	30 x 1,6mm Cramp 500mm long with one end fixed to wood and other end built into brickwork	No	100
24	Butterfly wall tie 140mm long with both ends built into brickwork	No	2 625
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>FACE BRICKWORK</u>				
	<u>"Corobrick Firelight Satin" or equal approved face bricks pointed with recessed horizontal and vertical joints</u>				
25	Extra over brickwork for face brickwork	m2	1 933		
26	Extra over brickwork for face brickwork lin foundations	m2	108		
27	Extra over brickwork for face brick on edge header course lintel in cement mortar and pointing both sides and 220mm wide on soffit	m	215		
28	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	25		
29	Extra over brickwork for recessing one brick course 25mm	m	800		
30	Extra over brickwork for brick-on-edge header course sloping sill 400mm girth pointed on face and bottom edge and including cement backing all fair cutting and special squint brick on bottom edge	m	150		
31	Extra over brickwork for brick-on-end soldier course band to window head pointed on all exposed edges	m	110		
32	Extra over brickwork for brick-on-end soldier course band	m	414		
33	Bullnosed brick on edge header course projecting 50mm from wall	m	75		
	<u>Joint forming material in movement joints</u>				
34	10mm board built in vertically through brick walls 115mm thick	m2	172		
35	10mm board built in vertically through brick walls 230mm thick	m2	24		
36	10mm board built in vertically between skins of walls	m2	250		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Steel bar reinforcement</u>				
37	16mm Diameter mild steel bars built in horizontally	t	0.20		

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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Bill No. 4

MASONRY

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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Bill No. 5

WATERPROOFING

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Item No		Quantity	Rate	Amount
<u>SECTION NO 2</u>				
<u>BILL NO. 6</u>				
<u>ROOF COVERINGS, ETC</u>				
<u>PREAMBLES</u>				
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
0.8mm "Safintra Newlok" aluminium roof sheeting with a COLORPLUS (Colour: Sea Spray Matt) coated finish to one side with a Cool Grey backing coat and accessories fixed to SA pine purlins supported on laminated SA pine rafter at centres as specified with timber bracing strut all to Structural Engineer details including all necessary flashing and cover trims matching the finish of the main roof, to be installed in accordance with manufactures details and specifications.				
1	Roof covering with a pitch not exceeding 25 degrees	m2	1 658	
2	Side cladding	m2	100	
3	175mm abutment flashing	m	60	
4	275mm girth fascia flashing eight times bent	m	150	
5	462mm girth barge flashing.	m	125	
6	462mm girth, apex flashing	m	200	
7	500mm girth, profiled eaves closer piece	m	200	
8	500mm girth flashing five times bent dressed under gutter	m	70	
9	0.8mm thick x 138mm wide aluminium folded flashing	m	178	
10	750mm flashing five times bent and dressed into brickwork	m	70	
Carried to Collection				
				R
Section No. 2 SINGLE STOREY CLASSROOMS (BLOCK A,C,D,E & I) Bill No. 6 ROOF COVERINGS, ETC				

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

11	Extra forming hole for 75 x 100mm downpipe	No	70
12	Narrow flute closers	m	250
13	Broad flute closers	m	200

ROOF AND WALL INSULATION

**Isoboard high density rigid extruded polystyrene
100% closed cell insulation boards, with tongued &
groove joints fixed concurrent with roof covering**

14	<u>50mm Thick roof insulation with tongue and groove joints fixed between rafters at 1000mm centres to timber bandering (measured elsewhere)</u>	m2	1 437
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420mm Heavy industrial grade aluminium foil based
insulation

15	Insulation laid taut over purlins (at approximately 750mm centres) and fixed concurrent with roof covering	m2	1 437
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ROOF COVERINGS, ETC

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COLLINGWOOD PRIMARY SCHOOL

NEW BUILDINGS AND ANCILLARY SITE WORKS

Section No. 2

Bill No. 6

ROOF COVERINGS, ETC

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SINGLE STOREY CLASSROOMS (BLOCK A,C,D,E & I)
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ROOF COVERINGS, ETC

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Item No	Quantity	Rate	Amount
<u>SECTION NO 2</u>			
<u>BILL NO. 7</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>PREAMBLES</u>			
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Timber</u>			
Timber shall be treated in accordance with PW371 and Tenderers shall allow accordingly (Treatment required for this project)			
All softwood to be South African Pine			
<u>Particle board</u>			
Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type			
<u>Joinery</u>			
Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc			
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes			
<u>Decorative laminate finish</u>			
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish			
Carried to Collection			R
Section No. 2 SINGLE STOREY CLASSROOMS (BLOCK A,C,D,E & I) Bill No. 7 CARPENTRY AND JOINERY			

<u>Descriptions</u>					
The term "planted on" shall mean the nailing of one timber member to another. The term "screwed on" shall mean the countersunk screwing of one timber member to another. The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screws sunk and pelleted. The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete. The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screws sunk and pelleted. The term "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting. Descriptions of items given in lineal metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc. Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.					
<u>ROOFS, ETC</u>					
<u>Prefabricated roof trusses</u>					
<u>ROOFS ETC</u>					
<u>Sawn softwood</u>					
1	25 x 125mm Packing piece	m	96		
2	50 x 50mm Packing piece	m	98		
3	38 x 50mm Brandering nailed to rafters	m	7 824		
4	150 x 50mm SAP treated flashing support fixed to rafter	m	429		
5	50 x 75mm Purlins	m	1 317		
6	38 x 100mm Bracing	m	200		
<u>Shutterboard plywood</u>					
7	18mm Eaves closure	m2	74		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Marine plywood</u>		
8	21mm capping 300mm wide	m	68
	<u>Wrot Laminated Pine</u>		
9	70 x 333mm Rafter	m	1 430
10	70 x 333mm Eaves closer piece 930mm long with metal brackets both ends including bolting to rafter with two 8mm x 15mm bolts	No	185
11	Extra for notched end 400mm girth	No	194
	<u>EAVES, VERGES, ETC</u>		
	<u>"Everite Flexit" pressed nutec-cement including galvanised steel H-profile jointing strips</u>		
12	Eaves soffit covering 500mm wide of 10mm thick sheets (branders elsewhere)	m2	228
13	12 x 300mm Fascias and barge boards	m	203
	<u>SKIRTINGS</u>		
	<u>Wrot meranti</u>		
14	19mm x 69mm quadrant bead nailed to brickwork	m	743
15	19 x 69mm Cornice with moulded edge nailed	m	743
	<u>TIMBER DOORS</u>		
	<u>Single framed and ledged door 44mm Thick 813 x 2720mm thick framed and ledged door with 114mm wide stiles and head rails, 228x20mm centre and bottom rails and 114x20mm thick braces. The edges of stiles and top rails to be rebated and grooved for and filled in with 22mm thick tongue and grooved and v-jointed boarding, twice countersunk screwed to each ledge from inside. The inner edges of stiles and top rail to be rebated for on inside and filled with 6mm thick plywood panel faced with veneer to match, glued and pinned</u>		
16	D01	No	25
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	Single framed and ledged door 44mm Thick 817 x 2105mm thick framed and ledged door with 114mm wide stiles and head rails, 228x20mm centre and bottom rails and 114x20mm thick braces. The edges of stiles and top rails to be rebated and grooved for and filled in with 22mm thick tongue and grooved and v-jointed boarding, twice countersunk screwed to each ledge from inside. The inner edges of stiles and top rail to be rebated for on inside and filled with 6mm thick plywood panel faced with veneer to match, glued and pinned				
17	D02	No	1		
	Double framed and ledged door 44mm Thick 1673 x 2748mm thick framed and ledged door with 114mm wide stiles and head rails, 228x20mm centre and bottom rails and 114x20mm thick braces. The edges of stiles and top rails to be rebated and grooved for and filled in with 22mm thick tongue and grooved and v-jointed boarding, twice countersunk screwed to each ledge from inside. The inner edges of stiles and top rail to be rebated for on inside and filled with 6mm thick plywood panel faced with veneer to match, glued and pinned				
18	D04	No	1		
	Heavy duty solid core door with fanlight flush panel 813 x 2032mm with hardwood edge for exterior use with top light				
19	D05	No	2		
20	D06	No	9		
	Heavy duty solid core door flush panel 813 x 2032mm with hardwood edge for exterior use with top light				
21	D08	No	1		
	<u>DOUBLE CUPBOARD DOOR</u>				
	Double 44m thick 1202 x 2064mm high , rebated, Heavy duty solidcore flush panel door, painting both sides and hardwood edge strips all round. 50mm wide Perspex signs with 30mm white engraved lettering fixed in position as directed by architect.				
22	D09	No	6		
	<u>WC CUBICLE DOOR</u>				
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>44mm thick x 900 x 1530mm high single flush meranti timber door</u>				
23	D11	No	6		
	<u>44mm thick x 950 x 2032mm WC disabled cubicle solid timber door with hardwood edging along edge of door with toplight above.</u>				
24	D12	No	1		
	<u>CLASSROOM CUPBOARD DOOR</u>				
	<u>44mm thick x 813 x 2032mm high heavy duty solid core flush panel door</u>				
25	D16	No	12		
	<u>FRAMES ETC</u>				
	<u>FRAMED FRAMES, MULLIONS, TRANSOMS, ETC</u>				
	<u>Hardwood</u>				
	<u>Hardwood single door frame size 900 x 1530mm high with 86 x 68mm sections and no sill.</u>				
26	D11	No	6		
	<u>Hardwood single door frame size 950 x 2748mm high with 86 x 68mm sections and no sill.</u>				
27	D12	No	1		
	<u>FITTINGS</u>				
	<u>General</u>				
	The following cupboard fittings have been measured as complete units i.e. the components of the units have not such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc				
	<u>Where described as secret fixed timber fittings shall be fixed with 10 x 40mm fluteded beechwood dowels</u>				
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

User note: The references given in the descriptions are to the respective types of fittings detailed on the architect's drawings numbered A(74) 6001 accompanying these bills of quantities for tender purposes Kitchen and wall cupboards etc to classrooms (drawing A(74)6001)

Cupboards

Kitchen cupboards etc

28 Sink floor cupboard 1100mm long x 600mm wide x 700mm high with top (granite worktop and sink measured elsewhere), sides, bottom, division, shelves, back and one double door

No

5

29 Floor cupboard 3385mm long x 625mm wide x 900mm high with 32mm wrot saligna worktop, sides, bottom, and two divisions all framed up with necessary softwoof framing

No

5

30 High level wall cupboard unit 3385mm wide x 500mm deep x 400mm high with 16mm Melamine faced both sides top,ends, bottom and two divisions.

No

5

31 Book shelf unit 3000mm wide x 600mm deep x 1275mm high with 16mm Melamine faced both sides worktop,ends three shelves and two divisions.

No

5

Classroom cupboards etc (drawing A(74) 6002)

32 Classroom Sink

No

5

Pigeon hole unit (drawing A(74) 6006)

33 Pigeon hole unit 4400mm wide x 400mm deep x 1275mm high with 16mm Melamine faced both sides worktop, three shelves and thirteen divisions secret fixed with dowels

No

5

Magazine rack unit (drawing A(74) 6006)

34 Magazine rack 5300mm wide x 400mm deep x 680mm high with 22mm Melamine faced both sides worktop ,ends four divisions and two sloping shelves with 22 x 52mm upstand planted on including 50 x 50mm sawn softwood bearer fixed to brickwork secret fixed with dowels

No

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CARPENTRY AND JOINERY

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

35	Magazine rack 5250mm long x 1105mm high as per drawing A (74) 6006 Rev A	No	5		
	<u>Worktops shelving etc</u>				
36	16mm Melamine Novalam faced blockboard shelf 435mm wide	m	50		
37	450mm Wide Saligna shelving on shelving brackets	m	20		
38	22mm thick saligna bookshelf size 3500 x 450 x 1105mm as per drawing A (74) 6006 Rev A	m	10		
39	16mm Melamine faced worktop 622mm wide with 22 x 75mm melamine downstand fascia and 38 x 50mm bearer plugged to brickwork	m	8		
40	16mm Melamine faced division panels 622 x 900mm high bolted to concrete	No	5		
41	2025mm high x 3400mm long wall mounted shelving as per drawing A (74) 6008 Rev A	No	1		
42	Laminated 22mm MDF countertop 3350mm long x 450mm wide x 400mm high as per drawing A (74) 6006 Rev A	No	5		
43	Timber pigeon holes shelving with 42 divisions 4400mm long x 400mm wide x 1105mm high as per drawing A (74) 6006 Rev A	No	5		
44	Base unit counter top 3385mm long x 450mm wide x 900mm high as per drawing A (74) 6006 Rev A	No	5		
45	300 x 1100 x 19mm Laminated MDF sink shelf with laminate finish to match cupboard doors	No	1		
46	Wall mounted shelving A (74) 6012 Rev A JO.48	No	1		
47	Floor mounted countertops 720mm high x 863mm long as per drawing A (74) 6012 Rev A	No	1		
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Section No. 2 SINGLE STOREY CLASSROOMS (BLOCK A,C,D,E & I) Bill No. 7 CARPENTRY AND JOINERY					

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

Wrought Laminated Saligna

48 16mm Shelving 450mm wide with one bullnose edge,
fixed to steel brackets as per drawing A(74)6006 Rev A

m

9

49 35 x 480mm Counter top screwed to with and including
35 x 350mm backing piece

m

15

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**COLLINGWOOD PRIMARY SCHOOL
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>IsoBoard high density 32-36kg/m³ rigid extruded polystyrene 100% closed cell insulation board of 60mm thickness and 600mm width with IsoPine / edge bevelled finish, tack-fixed with recommended adhesive at 200mm intervals to timber/steel branderling installed at maximum 700mm centres transversely to trusses, and edge-fixed with concealed ceiling clips screwed / pop-riveted to timber / steel branderling. Boards to be secured to perimeter branderling with drywall screws and washers at 300mm centres.</u>				
2	60mm Isoboard including 38 x 50mm branderling	m2	1 151		
	<u>NAILED UP CEILINGS</u>				
	<u>6mm "Everite Nutec" fibre-cement boards with H-profile primed steel jointing cover strips over joints</u>				
3	Ceilings including 38 x 50mm sawn softwood branderling at 450mm centres.	m2	5		
4	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated frame with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	1		
	<u>10mm Plainvented Fibre cement ceiling</u>				
5	10mm thick plainvented fibre cement ceiling boards , with joints covered by H-profile white PVC jointing strips,with edges finished by 19mm painted timber quadrants as per drawing A(50) 4012 Rev A	m2	155		
	<u>9mm "Rhino" gypsum plasterboard with "12mm" cover strips over joints.</u>				
6	Ceilings including 38 x 50mm sawn softwood branderling at 450mm centres.	m2	148		
7	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated frame with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	5		
	<u>Gypsum plasterboard cornices</u>				
8	75mm Coved cornices	m	50		
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	CEILINGS AND PARTITIONS				

9	Extruded high density purpose made polystrene shadowline silicon fixed to underside of ceiling and painted to match ceiling as per drawing A (50) 4012 Rev A	m	316
			R
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NEW BUILDINGS AND ANCILLARY SITE WORKS

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CEILINGS AND PARTITIONS

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<u>SECTION NO 2</u>				
<u>BILL NO. 9</u>				
<u>FLOOR COVERINGS, WALL LININGS, ETC.</u>				
<u>PREAMBLES</u>				
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"				
NOTE : All materials shall be in colours to be selected by the Representative/Agent and, where applicable, laid to approved patterns				
<u>FLOOR COVERINGS</u>				
<u>2mm "Polyflor" Classic Mystique PUR fully flexible heavy duty vinyl sheeting with welded joints (Colour Quartz) F2</u>				
1	On screeded floors	m2	1 012.80	
<u>2mm "Polyflor" Classic Mystique PUR fully flexible heavy duty vinyl sheeting with welded joints (Colour Nocturne) - borders</u>				
2	On screeded floors	m2	253.20	
<u>SKIRTINGS, NOSINGS, ETC</u>				
3	19 x 69mm Meranti timber	m	583.00	
4	Genesis fast fit ramp transition code TCR405 complete with accessories and fittings	m	37.00	
<u>CARPET</u>				
5	9mm thick x 1200x300mm Class 2 fire rating Belgotex floor heavy duty commercial carpet , colour Natural Bark Woodgrain, laid diagonally across room all to manufacturers specification and SANS 10186:2010 and SANS 10186 : 2008	m2	24.00	
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Section No. 2 SINGLE STOREY CLASSROOMS (BLOCK A,C,D,E & I) Bill No. 9 FLOOR COVERINGS, WALL LININGS, ETC				

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

6	D038R NP Rebate conversion kit for euro profile locks D038S,D037D	No	21
7	DCE-002 S.S Round cylinder escutcheon	No	21
8	H076 Heavy duty Stainless Steel Spring Clip	No	27
9	DFB-SC-180 153mm Manual flush bolt with heel	No	42
10	DBC-SS-022 Adjustable roller bolt	No	25
<u>HANDLES</u>			
<u>Dormakaba or similar approved</u>			
11	CB30 CYL S.C Lever handle on plate with cylinder cutout	No	70
12	DP01CBT 149 x 149mm Straight Stainless Steel Tubular	No	26
<u>PULL HANDLES</u>			
<u>PUSH PLATES AND KICKING PLATES</u>			
<u>Dormakaba or similar approved</u>			
13	Reference DKP-304-SF200 200mm x 1,2mm thick grade 304 brushed stainless steel kicking plates with 10 countersunk holes for screw fixing	No	1
<u>LETTERS, NAMEPLATES, ETC.</u>			
<u>Dormakaba or similar approved</u>			
14	DSS-145-FHR 150 x 150mm "FIRE HOSE REEL" sign	No	4
<u>SUNDRIES</u>			
<u>Dormakaba or similar approved</u>			
15	Reference 401SC Halcast doorstop and holder plugged	No	25
16	Reference DDS-SS-017 Floor mounted stainless steel door stop plugged	No	9
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>"Galvanized mild steel water bar with fishtailed lugs at 600mm centre"</u>				
17	6 x 70mm Water bar set in concrete	No	21		
	<u>SHELVES ETC</u>				
	<u>"Gelman" with standard epoxy powder coated finish</u>				
18	Single slot wall band fixed with Eureka "Easy Fit" wall anchors at 300mm centres	m	36		
19	435mm shelf bracket	No	100		
	<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</u>				
	<u>"Flortime Premier" or other approved pinning board with 9mm plywood backing fixed to brickwork in timber framing (timber framing elsewhere measured)</u>				
20	Pinning boards 1200mm high x 2500mm wide	No	1		
21	Pinning boards 1200mm high x 3300mm wide	No	1		
22	Pinning boards 1800mm high x 3200mm wide	No	2		
23	Pinning boards 1800mm high x 3770mm wide	No	1		
24	Pinning boards 1800mm high x 4350mm wide	No	5		
25	Pinning boards 1800mm high x 6700mm wide	No	12		
	<u>"Vitrex" or other approved chalkboards fixed to brickwork</u>				
26	Vitrex System 1000 folding type vitreous enamel steel wall mounted school chalk board, 1140mm high x 3600mm long, reference (1019), consisting of one fixed centre board size 1140mm high x 1800mm long, two fixed side boards each size 1140mm high x 900mm long and two swing leaves each size 1140 mm high x 900mm long. Swing leaves to have white lines spaced at 50mm centres, reference (1025), permanently screened on to rear face	No	17		
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COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 11</u>			
	<u>STRUCTURAL STEELWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	<u>STEEL COLUMNS AND BEAMS</u>			
	<u>Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete</u>			
1	75 x 75 x 4mm mild steel square hollow sections to columns	t	1.64	
2	150 x 82 x 62mm Thick GMS bracket as per drawing (A50) 4012 Rev A	No	143	
3	12 x 12 x 10mm Thick GMS spacer as per drawing (A50) 4012 Rev A	No	143	
4	10mm thick GMS plate fitted centrally into timber post and bolted through and welded to GMS base plate as per drawing (A50) 4012 Rev A	No	143	
5	100x100mm timber post as per drawing A (50) A4012 Rev A	No	143	
6	10mm thick GMS baseplate welded to GMS spacer	No	143	
7	10mm thick GMS baseplate welded to GMS spacer	No	143	
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NEW BUILDINGS AND ANCILLARY SITE WORKS**

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STRUCTURAL STEELWORK

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Bill No. 11

STRUCTURAL STEELWORK

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

3	Galvanised steel gate size 3500mm x 2750mm consisting of 50x50mm galvanised square hollow framing, 12mm galvanised square uprights as per drawing A(50)4034 Rev A. Gates pricing to include gloss enamel painting and bolting frame	No	1
<u>DUCT PANEL COVERS- Single Volume Detail</u>			
<u>Aluminium screen 1.2mm thick powdercoated</u>			
4	Screen size 900mm wide x 3315mm high including steelframe secured to brickwork [Drawing A(50) 2029 Rev A	No	1
<u>PRESSED STEEL DOOR FRAMES</u>			
<u>1,6mm Double rebated steel galvanised frames with one shop coat red oxide primer.</u>			
5	1.6mm thick pressed galvanized mild steel, 813mm x 2720mm single rebated frame, to suit thickness of brickwork, primed with approved red oxide primer and painted to Architect's spec. [D01]	No	24
6	1.6mm thick pressed galvanized mild steel, 813mm x 2720mm single rebated frame with fanlight, to suit thickness of brickwork, primed with approved red oxide primer and painted to Architect's spec. [D06]	No	10
<u>GALVANIZED STEEL LOURVED DOORS</u>			
<u>813 x 2720mm high g alvanised mild steel fully louvred single door</u>			
7	D15	No	4
<u>GALVANIZED STEEL WINDOWS, DOORS, ETC</u>			
<u>Purpose made galvanised steel windows frames with PFX7 sections with 12mm "XPANDA Superguard" or equally approved square solid steel burglar bars consisting of horizontal bars with 12mm supporting vertical members to be powder coated charcoal including coloured flashing surround</u>			
8	Purpose made window 700 x 1000mm high (W1)	No	15
9	Purpose made window 4000 x 900mm high (W2)	No	5
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

10	Purpose made window 600 x 650mm high (W3)	No	5
11	Purpose made window 890 x 1785mm high (W7)	No	15
12	Purpose made window 889 x 650mm high (W8)	No	6
13	Purpose made window 570 x 1200mm high (W11)	No	16
14	Purpose made window 570 x 1500mm high (W12)	No	3
15	Purpose made window 1632 x 1190mm high (W17)	No	35
16	Purpose made window 890 x 890mm high (W18)	No	48

ALUMINIUM SHOPFRONTS

Powder coated aluminium shopfront with polycarbonate multiwall system and louvre panels with 50x150mm mullion sections including 8mm multiwall polycarbonate panels to be in supporting frame complete with with subframes, ironmongery, glass, sealing, etc and fixing to brickwork or concrete.

17	Purpose made shopfront type SF-A01, 38502 x 750mm high overall as per drawing No A(33)5001	No	1
18	Purpose made shopfront type SF-A02, 1165 x 750mm high overall as per drawing No A(33)5001	No	2
19	Purpose made shopfront type SF-A03, 21554 x 750mm high overall as per drawing No A(33)5001	No	1
20	Purpose made shopfront type SF-A04, 1196 x 750mm high overall as per drawing No A(33)5001	No	2
21	Purpose made shopfront type SF-C01, 32535 x 750mm high overall as per drawing No A(33)5002	No	1
22	Purpose made shopfront type SF-C02, 1140 x 750mm high overall as per drawing No A(33)5003	No	2
23	Purpose made shopfront type SF-D01, 28800 x 750mm high overall as per drawing No A(33)5002	No	1
24	Purpose made shopfront type SF-E01, 32555 x 750mm high overall as per drawing No A(33)5003	No	1

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

25	Purpose made shopfront type SF-E02, 1155 x 750mm high overall as per drawing No A(33)5004	No	2		
26	Purpose made shopfront type SF-I01, 32640 x 750mm high overall as per drawing No A(33)5006	No	1		
27	Purpose made shopfront type SF-I02, 1040 x 750mm high overall as per drawing No A(33)5006	No	2		
	<u>Strong room Mutual D-S 6mm record door complete unit , SANS 1015 compliant , as per manufacturers instruction</u>				
28	D07	No	1		
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<u>SECTION NO 2</u>				
<u>BILL NO. 13</u>				
<u>PLASTERING</u>				
<u>PREAMBLES</u>				
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"				
<u>SCREEDS</u>				
<u>25Mpa Cement plaster screeds steel trowelled on concrete</u>				
1	25mm Thick on floors and landings	m2	1 266	
2	Average 40mm thick on floors to falls	m2	9	
<u>INTERNAL PLASTER</u>				
<u>Cement plaster on brickwork</u>				
3	On walls	m2	3 064	
4	On narrow widths	m2	400	
<u>EXTERNAL PLASTER</u>				
<u>Cement plaster on brickwork</u>				
5	On walls	m2	750	
6	On narrow widths not exceeding 300mm wide	m2	30	
7	Horizontal mouldings 15 x 150mm projection	m	40	
8	Splayed mouldings to window size 570 x 1200mm as per drawing A(35)5002 Rev A (W11)	No	16	
9	Splayed mouldings to window size 570 x 1500mm as per drawing A(35)5002 Rev A (W12)	No	3	
<u>SPECIALIST FLOOR COVERINGS</u>				
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Item No	Quantity	Rate	Amount
<u>SECTION NO 2</u>			
<u>BILL NO. 14</u>			
<u>TILING</u>			
<u>PREAMBLES</u>			
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions</u>			
Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
<u>WALL TILING</u>			
<u>200 x 200 x 5mm White gloss glazed ceramic tiles on brickwork including cement plaster backing</u>			
1	On walls	m2	285.94
<u>200 x 200 x 5mm Grey gloss glazed ceramic tiles on brickwork including cement plaster backing</u>			
2	On walls	m2	256.59
<u>200 x 200 x 5mm Turquoise gloss glazed ceramic tiles on brickwork including cement plaster backing</u>			
3	On walls	m2	256.59
<u>200 x 200 x 5mm Dark blue gloss glazed ceramic tiles on brickwork including cement plaster backing</u>			
4	On walls	m2	256.59
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Section No. 2 SINGLE STOREY CLASSROOMS (BLOCK A,C,D,E & I) Bill No. 14 TILING			

Copper pipes

Pipes shall be hard drawn and half-hard pipes of the class stated. 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. Only compression fittings shall be used in walls or in ground

Exposed concrete surfaces

Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster

Excavations

No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling "Soft rock" and "hard rock" shall be as defined in "Earthworks"

Laying, backfilling, bedding, etc of pipes

Laying, backfilling, bedding, etc of pipes Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 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 SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding

Flush pans

Flush pans shall have straight or side outlets and "P" or "S" traps as necessary

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Bill No. 15
PLUMBING AND DRAINAGE

Stainless steel basins, sinks, wash troughs, urinals, etc

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable

Waste unions

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings

RAINWATER DISPOSAL

3mm Galvanised sheet iron with expanded mesh
aluminium leaf guard

1	650mm girth box gutters with four bends	m	118
2	1200mm girth box gutters with three bends	m	41
3	Extra over for outlet for 70mm outlet pipe	No	17
4	Extra over for stopped end for 650mm girth gutter	No	8
5	Extra over for stopped end for 1200mm girth gutter	No	6
6	Extra over for cross gutter strengthening cleat for 650mm girth gutter	No	12
7	Extra over for cross gutter strengthening cleat for 1200mm girth gutter	No	9
<u>0.8mm Aluminium gutters fixed to purlins at 500mm centres with G4 colourtech interall and externally</u>			
8	150 x 125mm Ogee eaves gutters with a beaded front edge	m	151
9	Extra over 150 x 125mm eaves gutter for 75 x 100mm outlet pipe	No	20
10	Extra over 150 x 125mm eaves gutter for stopped end	No	4
11	Extra over 150 x 125mm eaves gutter for angle	No	43
<u>0.6mm aluminium seamless downpipes coated with Colourtech G4 white all round</u>			
12	70mm diameter pipe fixed to wall	m	67

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PLUMBING AND DRAINAGE

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

13	Extra over 70mm rainwater pipe for bend	No	22
14	Extra over 70mm rainwater pipe for 600mm swan neck	No	16
15	Extra over 70mm rainwater pipe for shoe	No	27
16	70 x 100mm pipe fixed to wall	m	77
17	Extra over 75 x 100mm rainwater pipe for bend	No	21
18	Extra over 75 x 100mm rainwater pipe for 600mm swan neck	No	21
19	Extra over 75 x 100mm rainwater pipe for shoe	No	21
<u>SOIL WASTE AND VENT PIPES</u>			
<u>GEBERIT HDPE or equal approved drainage piping including cutting, pipe preparation, brackets, hangers & butt welding pipes</u>			
20	56mm Diameter pipes	m	52
21	56mm Diameter pipes under concrete slabs	m	5
22	110mm Diameter pipes	m	70
23	110mm Diameter pipes under concrete slabs	m	20
<u>Extra over HDPE pipes for fittings</u>			
24	56mm Bend	No	63
25	56mm Junction	No	12
26	56mm ringseal socket	No	44
27	56mm fusion coupling	No	20
28	56mm expansion socket	No	6
29	50 x 40mm sleeve	No	20
30	110mm bend	No	41
31	110mm eccentric reducer	No	4
32	110mm Reducing Y branch	No	9

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

33	110mm Y branch	No	17
34	110mm ringseal	No	9
35	110mm fusion socket	No	9
36	110mm expansion socket	No	3
37	110mm Pan connector	No	16
38	110mm connecting pipe	No	16
39	110mm rodding eye	No	4
<u>HOT AND COLD WATER SERVICES</u>			
<u>Geberit 'Mepla' multi layered mepla pipe including couplers in running lengths, cramping and fixing to holderbats and chasing droppers to brickwork wrapped in kraft paper</u>			
40	20mm Diameter pipes	m	107
41	26mm Diameter pipes	m	63
42	32mm Diameter pipes	m	27
43	40mm Diameter pipes	m	13
<u>Extra over 'Geberit' Mepla pipe for</u>			
44	20mm Fitting	No	244
45	26mm Fitting	No	138
46	32mm elbow	No	18
47	32mm tee / reducing Tee	No	4
48	32mm reducer	No	1
49	32mm adaptors	No	6
50	40mm Elbow	No	3
51	40mm tee / reducing Tee	No	1
52	40mm reducers	No	1

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SINGLE STOREY CLASSROOMS (BLOCK A,C,D,E & I)
Bill No. 15
PLUMBING AND DRAINAGE

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

53	40mm adaptors	No	4		
	<u>Thermal Insulation to hot water pipes applied in accordance with the manufacturers instructions</u>				
54	25mm minimum insulation thickness - For pipe size up to 28mm	No	88		
	<u>Cladding to insulation</u>				
55	0.6mm galvanised cladding to exposed insulation	No	37		
	<u>SANITARY FITTINGS</u>				
	<u>As supplied by Vaal Sanitaryware (White), sealed to tiledwalls with silicon sealant as necessary</u>				
	<u>Water closets</u>				
56	Entice Vaal® wall hung paraplegic WC with standard matching seat. Code: 439600 with Concealed Cistern with actuator plate. Code: 38732000.	No	3		
57	Vandal Resistant Universal WC Pan from non-porous homogenous polymeric material. Code: GYP/VA.R1/01. FLUSHING SYSTEM: Sanitaryware Hibiscus concealed cisterns (7116DP).	No	13		
58	Junior' outlet wash-down toilet suite, 6 litre cistern, complete with lid and fitments, and junior seat.To be 'white' in colour. Code: 751358Wh.	No	6		
	<u>Wash hand basins</u>				
59	WHB: Vaal® Sanitaryware vitreous china 450 x 350mm "Midi – Weaver" rectangular surface mounted vanity basin with one taphole. Code: VAA-706601WH.	No	3		
60	WHB: Corian® moulded continuous wash trough vanity as per detail.	No	3		
	<u>Sinks</u>				
61	800 x 460mm polished stainless-steel end bowl drop on sink (Code: Nouveau NVN611)	No	5		
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62	Cleaner/Drip sink unit manufactured from 1.2mm thick grade 304 stainless steel 0.9mm thick gauge with grid.Sink is 600 x 500 x 248mm deep with a pressed bowl of 525 x 425mm abd 40mm waste outlet with a capacity of 43 litres.The unit is to be fitted with a stainless steel hinged bucket grid, manufactured from a 10mm stainless steel round bar,supplied with a pair of stainless steel Eagle brackets.To be fixed to wall 600mm high from the top of the front apron to be finished floor level with 4 of anchor bolts Code: 350960	No	1
63	Franke® Surrond Wall Mounted Basin without splashback. Unit to be manufactured from Grade 304 (18/10) stainless steel, 1.2mm gauge in a satin finish. Unit to include pressed bowl 360 x 320 x 130mm deep with a 40mm waste outlet and a polished outer casing with a removeable base plate. Basin to be supplied with two 25x6mm fixing brackets to secure basin to wall. Fixing bracket fixed to wall with 4 x 6mm anchor bolts. Code: 256550010 FSW.	No	1
64	Grade 304 (18/10) Stainless Steel centre double bowl catering sink size 1500 x 650 x 900mm high with 2No. 505 x 505 x 230mm deep bowls including 150mm high integral splashback and 60 x 12mm turndown with beaded edge on remaining sides with underside sprayed with vermin proof bitumastic sound deadening, supported with a 30 x 30 x 3mm framework with galvanised sheet backing, fitted on 41mm diameter round Stainless Steel detachable legs with adjustable foot pieces. Code: KS21500. Allow two outlets with plug per sink	No	1
65	1,2mm Grade 304 18/10 stainless steel Oval B wall mounted wash hand basin (code: 357454), size 420 x 336 x 330mm deep with a one piece pressed bowl, one tap hole, 30mm splashback, 30mm radiused apron and 40mm waste outlet, 20mm stainless steelsquare tubing brackets bolted to wall with 4 x 6mm anchor bolts.	No	3
<u>Shower doors</u>			
66	Showerflex natural anodised aluminium shower hinged door size 900 x 2100mm high complete with two self-closing hinges, cleats, stops, seals,etc,and 6mm toughened clear glass plugged to tiled walls	No	2
<u>TAPS, VALVES, ETC.</u>			
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Taps, valves, etc., including coupling to pipes and/or fittings

As supplied by Cobra Watertech

67	Metering spout, wall type with non-hold open feature, flow controller and wall flange. Code: KM066WT-114.	No	9
68	Chrome metering pillar tap with self-closing and flow control. Code: KM2-100FS.	No	2
69	Watertech Chrome plated elbow action pillar tap. Code COB-NM-851.	No	2
70	15mm chrome plated Star sink mixer (Code: 266/041/10) with aerated swivel spout and concealed connections, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412), installed to manufacturer's recommendations.	No	7
71	Single lever bath/ shower undertile mixer. Code: COB-KO-356.As per manufacturers instruction	No	1
72	Vandal master shower rose KP2.6 or similar approved min 2400mm AFFL.	No	1
73	Push button metering non-hold open valve as WALCRO 150C with prison type push rod assembly or similar approved. Secure to wall with 100 x 65 x 7mm MS angle,100mm long and shaped around valve	No	1
74	Thermostatic mixing valves as Mastertherm II or similar approved to set water temperature.	No	1
75	15mm 'Cobra' No. 832-10 chromium plated angle regulating valve	No	4
76	Star hose bib tap with hot and cold indices, chrome plated. Cold only, with CP extension piece with sliding wall flange, mounted centrally over slop sink (elsewhere measured) cold water supply inlet at 1 200mm above FFL. Wall flange to be silicon sealed to back wall all round. Code: COB 211-15.	No	2

WASTE UNIONS, TRAPS, ETC.

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<u>As supplied by Cobra Watertech</u>					
77	32mm Chromium plated slotted basin waste with plug, chain and stay Ref. No. 301	No	9		
78	Cobra® trap, 40mm Chrome plated deep seal bottle trap with outlet for 50mm PVC, with 300mm long tailpipe with wall flange. Code: 385/35SQ. As per manufactures instruction.	No	4		
79	40mm Chrome plated deep seal bottle trap with outlet for 50mm PVC.	No	1		
80	38mm Chromium plated sink waste Ref. No. 316/40	No	9		
81	40 x 300mm sink combination trap with deep seal P trap	No	3		
82	38mm Rubber deep seal P trap	No	4		
83	Shower p-trap, rough brass. Includes shallow seal, chrome plated grating and 1.5" female outlet code COB-373	No	1		
<u>Floor drains and grease traps</u>					
84	Floor drain with permanent water seal and 6l basket. Manufactured from Stainless steel 304. To be connected in accordance with the SAN 10400 requirements and manufacturers instruction.	No	6		
85	450 x 900mm Panda Gully Fatmaster. Installed to manufacturers specifications	No	1		
<u>As supplied by Franke</u>					
86	550mm long horizontally placed grab rail to rear of WC – code CNTX 550	No	2		
87	Angle grab rail adjacent to WC - code CNTX PAR.	No	2		
88	Double toilet roll holder with spindle system for wall mounting, stainless steel, surface satin finished, material thickness 1.5 mm, curved front cover, cylinder lock, for 2 rolls with max. Ø 120 mm, second roll will be released after consumption of first roll, with spindles, reserve roll not visible, incl. stainless steel screws and dowels. Overall size 156Wx303Hx141D. Code: 359715.	No	22		
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89	Soap dispenser for wall mounting, stainless steel, surface satin finished, front, material thickness 1.5 mm, curved front cover, cylinder lock, inspection window on front, suitable for liquid soaps and lotions, 0.8 liter soap tank, with plastic pull lever, incl. stainless steel screws and dowels. Overall size 100Wx304Hx134D. Code:359740.	No	12		
90	Paper towel dispenser with front cover from High Grade 304 Stainless Steel material available in Satin (Code SS1118) finish. Dimensions:Height (H): 330mm, Width (W): 280mm, Depth (D): 220mm	No	7		
91	38l stainless steel (Grade 304, satin finish), wallhung bin with plastic in lining. Overall size 385H x 340Wx 290D. Code: SD1136.	No	7		
	<u>Drinking fountain</u>				
92	Concrete civic drinking fountain size 850mm (pebble dash finish) with integrated spring-loaded valve, fitted in accordance with manufacturer's recommendations (Code – MK1).	No	1		
	<u>Geysers</u>				
93	100L Econoflo dual horizontal electric water heater complete with tp valve, drain cork and 3KW element and automatic thermostat and connection to water supply pipe, including heavy duty brackets for boling to wall with 12mm rawl expanding bolts. The overflow from the TP valve to be pipe to the external of the building over the closest gully.(Electric connection by electrician) Including prv and vacuum breakers	No	1		
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94	Fully functional Indirect solar water heating system by specialist,consisting of 1 solar panel with effective area of 2.5m2, 1 of 200-litre indirect solar geysers and one of glycol expansion tank with minimum capacity of 10 liters.1 of circulating pump with a minimum flow of 0.02 litre/second against a 5 meter head (min), insulated class 2 copper pipe system. System to include all ancillary equipment deemed necessary such as piping, fittings, piping supports, valves, indirect solar geyser, double skin indirect solar heating coils, flat panel solar heating panels, bracketing, supports, safety devices, drip tanks, thermostatically controlled mixing valve and initial fill with 30% propylene glycol solution.The solar panel shall be equipped with solar panel cover from white fiber reinforced PVC impregnated tarpaulin with a minimum mass of 180 gram/sqaure meter. The solar panel support frames shall be equipped with fastening points and the covers shall be complete with tie down ropes. See attached the Department of Public Works requirement for an indirect solar geyser. Similar approved to be sourced	No	1		
	<u>TESTING</u>				
	<u>Testing of the following installations</u>				
95	Waste and ventilation installation		Item		
96	Hot and cold water installation		Item		
97	Allow for flushing out and super-chlorinating the whole of the water supply installation		Item		
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Item No		Quantity	Rate	Amount
<u>SECTION NO 2</u>				
<u>BILL NO. 16</u>				
<u>GLAZING</u>				
<u>PREAMBLES</u>				
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"				
<u>GLAZING TO STEEL WITH PUTTY</u>				
<u>6.38mm Clear laminated safety glass</u>				
1	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2	5	
2	Panes exceeding 0,5m2 and not exceeding 2.0m2	m2	188	
<u>TOPS, SHELVES, MIRRORS, ETC</u>				
<u>1.6mm Thick stainless steel highly polished mirror epoxy glued and 4 times fixed to wall with non-removal screws.</u>				
3	Mirrors 450 x 600mm high	No	2	
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**COLLINGWOOD PRIMARY SCHOOL
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Item No		Quantity	Rate	Amount
	<u>SECTION NO 2</u>			
	<u>BILL NO. 17</u>			
	<u>PAINTWORK</u>			
	<u>PREAMBLES</u>			
	For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"			
	<u>PREPARATORY WORK TO EXISTING WORK</u>			
	<u>Previously painted plastered surfaces</u>			
	Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth			
	<u>Previously painted metal surfaces</u>			
	Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal			
	<u>Previously painted wood surfaces</u>			
	Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth			
	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>PAINT ON PLASTER, ETC</u>			
	<u>Prepare and apply one coat "Plascon Professional Gypsum and Plaster Primer" and two coats "Plascon Professional Superior Satin PVA " paint</u>			
1	On internal walls	m2	3 064	
2	On external walls	m2	750	
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

3	On internal 9mm rhinoboard ceilings and cornices	m2	177
4	On external ceilings and cornices	m2	155
<u>PAINT ON FIBRE-CEMENT</u>			
<u>Prepare and apply one coat "Plascon Professional Gypsum and Plaster Primer" and two coats "Plascon Professional Superior Satin PVA " paint</u>			
5	On ceilings and cornices	m2	50
6	On external fascias and bargeboards	m2	200
<u>PAINT ON METAL</u>			
<u>Prepare, touch up primer and apply one coat "Dulux" steel primer one coat "Dulux" universal undercoat and three coats "Dulux Dura 100" high gloss enamel paint</u>			
7	On pressed steel door frames	m2	50
<u>Prepare, touch up primer and apply one coat "Dulux Duraphos" one coat "Dulux" universal undercoat and two coats "Dulux Dura 100" high gloss enamel paint</u>			
8	On steel and glass doors (both sides measured)	m2	125
9	On steel windows with burglar bars (both sides measured)	m2	315
10	On gates, grilles, louvres etc (both sides measured)	m2	168
11	On rails, bars, pipes, etc not exceeding 300 mm girth	m	25
12	On eaves gutters and down pipes not exceeding 300 mm girth	m	750
<u>PAINT ON WOOD</u>			
<u>Two coats carbolineum wood preservative</u>			
13	On roof timbers at eaves and verges	m2	1 120
<u>Prepare and apply one coat "Dulux" wood primer two coats "Dulux" universal undercoat and three coats "Dulux" eggshell enamel paint</u>			
14	On doors	m2	205
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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WORKING SPACE

Working space for formwork to sides of all concrete, except columns, shall be measured only where the concrete face is less than 750mm from the face from the measured excavations

Working space for formwork to sides of columns shall be measured for the width of the column face only where both:

(a) The top of the column base is more than 1,5m below the commencing level of the excavations and

(b) The column face is less than 500mm from the face of the measured excavation

No claim shall be considered for any working space for formwork to concrete other than as above described or for working space beyond the sides of trench excavations for the building of brick or block walls.

Descriptions of excavations for working space shall be deemed to include for any additional risk of collapse so incurred and for the returning and compacting of the excavated material as described.

SOIL POISONING

The contractor will be required to provide a guarantee from a registered (member of SAPCA) soil poisoning company for the soil insecticide and weed killing applications

REMOVAL OF EXISTING WORK:

NATURE OF WORK Tenderers are advised to visit the site and to satisfy themselves as to the nature and extent of the work to be done and provide in their tenders for any items not specifically mentioned which they may deem necessary for the proper completion of the work. Tenderers are advised that the existing building will be in occupation during the progress of the work and due allowance must be made for the work being carried out at such times and in such manner as will least interfere with the routine of the occupants and as may be directed by the Quantity Surveyor.

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DIMENSIONS The Contractor is advised to take all dimensions affecting the existing buildings on the site, as he will be held solely responsible for all new work being of the correct sizes.

PIPES, ETC. Special care is to be taken not to interfere unnecessarily with any water supply pipes or other piping that may be met with and found necessary to disconnect or cut, are to be effectively stopped off and any new connections that may be necessary are to be made with proper fittings and to the satisfaction of the Quantity Surveyor to whom due notice must be given of any alterations to the existing services.

PROTECTION In taking down and removing existing work the utmost care is to be observed to avoid any structural or other damage to the remaining portions of the buildings. The Contractor must also protect all work not removed such as walls, floors, doors, windows or other joinery, loose and fixed fittings and electrical appliances, etc., from damage during the progress of the work and provide all necessary materials for so doing. The Contractor will be held solely responsible for any damage to persons or property and for the safety of the structure throughout the whole of this Contract and must make good at his own expense any damage that may occur.

CREDITS, ETC. Old materials from the pulling down (except such as are described to be re-used or handed over) are to become the property of the Contractor who shall allow credit as provided for in the summary at the end of these Bills of Quantities. Old materials for re-use are to be carefully removed, stored and protected from injury including making good any damaged or defective parts as required before refixing. Old materials described to be handed over are to be carefully removed and neatly stacked on site where directed. The remainder of the old materials and all rubbish to be immediately carted away and the site left clean and unencumbered. None of the old stock bricks from the pulling down are to be re-used for any new work.

EXCAVATIONS

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	<u>Excavate in earth not exceeding 2m deep</u>				
1	Trenches	m3	288		
	<u>Extra over trench and hole excavations in earth for excavations in</u>				
2	Soft rock	m3	2		
3	Hard rock	m3	1		
	<u>Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to ?% Mod AASHTO density</u>				
4	Exceeding 1m and not exceeding 2m deep for placing and removing formwork to walls etc, 500mm away from excavated face	m2	693		
	<u>Extra over all excavations for carting away</u>				
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	288		
	<u>Risk of collapse of excavations</u>				
6	Risk of collapse of sides of excavations for trenches and holes from natural, elevated or reduced ground level to not exceeding 1,5m deep	m2	639		
	<u>Keeping excavations free of water</u>				
7	Allow for keeping all excavations entirely free from water and mud		Item		
	FILLING				
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93 % Mod AASHTO density</u>				
8	Backfilling to trenches, holes, etc	m3	1		
	<u>Filling of gravel-soil material G7 supplied by the contractor, compacted to 97% Mod AASHTO density</u>				
9	Under floors, steps, paving etc.	m3	232		
10	Backfilling to trenches, holes, etc	m3	42		
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NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Compaction of surfaces</u>				
11	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	836		
	<u>Prescribed density tests on filling</u>				
12	"Modified AASHTO Density" tests	No	15		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide</u>				
13	Soil insecticide applied and mixed in the proportion and rate as specified to bottoms and sides of trenches, holes etc	m2	836		
	<u>Approved weedkiller mixed and applied strictly in accordance with the manufacturer's instructions</u>				
14	Under paving, etc	m2	836		
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EARTHWORKS

Formwork

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 re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.

Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"

CONCRETE

UNREINFORCED CONCRETE

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

15MPa/20mm concrete

1	Surface blinding under footings and bases	m3	43	
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REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

30MPa/20mm concrete

2	Strip footings	m3	59	
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REINFORCED CONCRETE CAST ON/IN FORMWORK

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	<u>30Mpa/19mm concrete</u>				
3	Filling 50mm cavity walls reinforced with fabric or steel bars (fabric reinforcement and steel bars elsewhere measured)	m3	1		
4	Surface beds on waterproofing	m3	105		
5	Slabs including beams and inverted beams	m3	307		
6	Stairs including landings, beams and inverted beams	m3	7		
7	Walls	m3	4		
8	Columns	m3	15		
	<u>CONCRETE TEST CUBES</u>				
9	Prepare set of three 150 x 150 x 150mm concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional)	No	10		
	<u>SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a power float</u>				
10	Surface beds, slabs, etc	m2	2 053		
	<u>FORMWORK</u>				
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>				
	<u>Smooth formwork to sides</u>				
11	Square columns with total height exceeding 3m and not exceeding 3.5m above bearing level	m2	55		
12	Square columns with total height exceeding 3m and not exceeding 6.5m above bearing level	m2	57		
13	Inverted beams	m2	229		
14	Edges, risers, ends and reveals not exceeding 300mm high or wide circular to (not?) exceeding 1m radius	m	112		
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	<u>Smooth formwork to sides and soffits</u>				
15	Slabs and beams	m2	1 214		
	<u>MOVEMENT JOINTS</u>				
	<u>Joint sealed with theoflex 600 or equally approved</u>				
16	Not exceeding 300mm deep	m	230		
	<u>Expansion joints with 12mm softboard between vertical concrete and brick surfaces</u>				
17	12mm Joints not exceeding 300mm high	m	230		
	<u>Saw cut joints</u>				
18	6 x 25 mm Saw cut joint in top of concrete	m	230		
	<u>REINFORCEMENT</u>				
	<u>Mild steel reinforcement to structural concrete work</u>				
19	8mm Diameter bars	t	2.00		
20	16mm Diameter bars	t	2.00		
21	12mm Diameter bars	t	2.00		
22	10mm Diameter bars	t	0.50		
	<u>High tensile steel reinforcement to structural concrete work</u>				
23	16mm Diameter bars	t	11.00		
24	12mm Diameter bars	t	13.00		
25	10mm Diameter bars	t	11.00		
	<u>Fabric reinforcement</u>				
26	Type 311 fabric reinforcement in concrete surface beds etc	m2	836		
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NEW BUILDINGS AND ANCILLARY SITE WORKS**

FOUNDATIONS

Loadbearing brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar

1	One brick walls	m2	15
2	270mm hollow walls of two half brick skins including wire ties	m2	74
<u>Brick reinforcement</u>			
3	Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	1 741
4	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	173

SUPERSTRUCTURE

Brickwork of NFP bricks in class II mortar

5	Half brick walls	m2	401
6	Half brick walls in beamfilling	m2	5
7	One brick walls	m2	357
8	270mm Hollow walls of two half brick skins including wire ties	m2	1 285
9	340mm Hollow walls of two half brick skins including wire ties	m2	37
10	461mm Hollow walls of two one brick skins including wire ties	m2	270

SUNDRIES

11	Closing 50mm cavity of 270mm hollow wall vertically with one course of brickwork at jambs	m	304
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12	Closing 50mm cavity of 270mm hollow wall horizontally with one course of brickwork at top	m	508		
	<u>Brick reinforcement</u>				
13	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	7 582		
14	Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	1 432		
	<u>Prestressed concrete lintels including temporary supports</u>				
15	145 x 75mm Lintels in lengths not exceeding 1.5m	m	48		
16	145 x 75mm Lintels in lengths exceeding 1,5m not exceeding 3.0m	m	280		
	<u>Turning piece</u>				
17	230mm Turning piece to lintels etc.	m	200		
	<u>Galvanised hoop iron cramp ties etc.</u>				
18	30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end built into brickwork	No	64		
19	30 x 1,6mm Wall tie 0.9m long with T shaped end built into external cavity wall the other end set into brickwork	No	64		
	<u>FACE BRICKWORK</u>				
	<u>"Corobrick Firelight Satin" or equal approved face bricks pointed with recessed horizontal and vertical joints</u>				
20	Extra over brickwork for face brickwork	m2	631		
21	Extra over brickwork for face brickwork lin foundations	m2	33		
22	Extra over brickwork for brick-on-end soldier course band to window head pointed on all exposed edges	m	127		
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Item No		Quantity	Rate	Amount
	<u>SECTION NO 3</u>			
	<u>BILL NO. 5</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Waterproofing</u>			
	Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs			
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron "Gunplas Brickgrip" or equal approved damp proof course</u>			
1	In walls	m2	130	
	<u>DAMPPROOFING UNDER SURFACE BEDS</u>			
	<u>One layer of 250 micron "Gunplas U.S.B. Green" or equal approved plastic sheeting:</u>			
2	Under surface beds	m2	836	
	<u>WATERPROOFING TO ROOFS, BASEMENTS, ETC</u>			
	<u>4mm "Derbigum SP" waterproofing with two coats</u> <u>Mapei bitumen aluminium based paint to seal joints of gms gutter before application of waterproofing membrane</u>			
3	On linings to box gutters	m2	231	
4	Sealing edges to brickwork or concrete Additional membrane at 70mm diameter outle	m	257	
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	<u>ABE "Unigum" 4mm thick two component polymer modified bituminous membrane waterproofing</u>								
5	On isolated slabs and edges	m2		15					
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WATERPROOFING

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<u>SECTION NO 3</u>				
<u>BILL NO. 6</u>				
<u>ROOF COVERINGS, ETC</u>				
<u>PREAMBLES</u>				
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<u>0.8mm "Safintra Newlok" aluminium roof sheeting with a COLORPLUS (Colour: Sea Spray Matt) coated finish to one side with a Cool Grey backing coat and accessories fixed to SA pine purlins supported on laminated SA pine rafter at centres as specified with timber bracing strut all to Structural Engineer details including all necessary flashing and cover trims matching the finish of the main roof, to be installed in accordance with manufactures details and specifications</u>				
1	Roof covering with a pitch not exceeding 25 degrees	m2	949	
2	Side cladding	m2	484	
3	0.8mm Thick x 138mm wide aluminium folded flashing	m	84	
4	275mm girth fascia flashing	m	75	
5	462mm girth barge flashing.	m	36	
6	462mm girth, apex flashing	m	120	
7	500mm girth, profiled eaves closer piece	m	135	
8	500mm girth flashing	m	120	
9	750mm flashing	m	120	
10	Extra forming hole for 75 x 100mm downpipe	No	27	
11	Narrow flute closers	m	99	
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**COLLINGWOOD PRIMARY SCHOOL
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12	Broad flute closers	m	99		
	<u>Form opening in side cladding sheeting :</u>				
13	Opening 700 x 100mm for window including colour coated flashing all round	No	30		
	<u>ROOF AND WALL INSULATION</u>				
	<u>Isoboard high density rigid extruded polystyrene 100% closed cell insulation boards, with tongued & groove joints fixed concurrent with roof covering</u>				
14	50mm Thick roof insulation with tongue and groove joints fixed between rafters at 1000mm centres to timber bandering (measured elsewhere)	m2	683		
	<u>420mm Heavy industrial grade aluminium foil based insulation</u>				
15	Insulation laid taut over purlins (at approximately 750mm centres) and fixed concurrent with roof covering	m2	683		
Carried to Collection					
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Bill No. 6
ROOF COVERINGS, ETC

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<u>Descriptions</u>					
The term "planted on" shall mean the nailing of one timber member to another. The term "screwed on" shall mean the countersunk screwing of one timber member to another. The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screws sunk and pelleted. The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete. The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screws sunk and pelleted. The term "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting. Descriptions of items given in lineal metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc. Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.					
<u>ROOFS, ETC</u>					
<u>ROOFS ETC</u>					
<u>Sawn softwood</u>					
1	25 x 125mm Packing piece	m	120		
2	50 x 50mm Packing piece	m	120		
3	150 x 50mm SAP treated flashing support fixed to rafter	m	279		
4	50 x 75mm Purlins	m	858		
5	38 x 100mm Bracing	m	60		
<u>Shutterboard plywood</u>					
6	18mm Eaves closure	m2	45		
<u>Marine plywood</u>					
7	21mm capping 300mm wide	m	42		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Wrot Laminated Pine</u>				
8	70 x 333mm Rafter	m	930		
	<u>SKIRTINGS</u>				
	<u>Wrot meranti</u>				
9	19 x 69mm Cornice with moulded edge nailed	m	1 142		
	<u>TIMBER DOORS</u>				
	<u>Single framed and ledged door 44mm Thick 813 x 2720mm thick framed and ledged door with 114mm wide stiles and head rails, 228x20mm centre and bottom rails and 114x20mm thick braces. The edges of stiles and top rails to be rebated and grooved for and filled in with 22mm thick tongue and grooved and v-jointed boarding, twice countersunk screwed to each ledge from inside. The inner edges of stiles and top rail to be rebated for on inside and filled with 6mm thick plywood panel faced with veneer to match, glued and pinned</u>				
10	D01	No	15		
	<u>Single framed and ledged door 44mm Thick 813 x 2032mm thick framed and ledged door with 114mm wide stiles and head rails, 228x20mm centre and bottom rails and 114x20mm thick braces. The edges of stiles and top rails to be rebated and grooved for and filled in with 22mm thick tongue and grooved and v-jointed boarding, twice countersunk screwed to each ledge from inside. The inner edges of stiles and top rail to be rebated for on inside and filled with 6mm thick plywood panel faced with veneer to match, glued and pinned</u>				
11	D03	No	2		
	<u>Double framed and ledged door 44mm Thick 1673 x 2748mm thick framed and ledged door with 114mm wide stiles and head rails, 228x20mm centre and bottom rails and 114x20mm thick braces. The edges of stiles and top rails to be rebated and grooved for and filled in with 22mm thick tongue and grooved and v-jointed boarding, twice countersunk screwed to each ledge from inside. The inner edges of stiles and top rail to be rebated for on inside and filled with 6mm thick plywood panel faced with veneer to match, glued and pinned</u>				
12	D04	No	3		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Heavy duty solid core door with fanlight flush panel 813 x 2032mm with hardwood edge for exterior use with top light</u>					
13	D05	No	9			
14	D06	No	12			
	<u>DOUBLE CUPBOARD DOOR</u>					
	<u>Double 44m thick 1202 x 2064mm high , rebated, Heavy duty solidcore flush panel door, painting both sides and hardwood edge strips all round. 50mm wide Perspex signs with 30mm white engraved lettering fixed in position as directed by architect.</u>					
15	D09	No	1			
	<u>WC CUBICLE DOOR</u>					
	<u>44mm thick x 813 x 2125mm high single flush meranti timber door</u>					
16	D10	No	19			
	<u>44mm thick x 950 x 2032mm WC disabled cubicle solid timber door with hardwood edging along edge of door with toplight above.</u>					
17	D12	No	2			
	<u>CLASSROOM CUPBOARD DOOR</u>					
	<u>44mm thick x 813 x 2032mm high heavy duty solid core flush panel door</u>					
18	D16	No	10			
	<u>FRAMES ETC</u>					
	<u>FRAMED FRAMES, MULLIONS, TRANSOMS, ETC</u>					
	<u>Hardwood</u>					
	<u>Hardwood single door frame size 813 x 2125mm high with 86 x 68mm sections and no sill.</u>					
19	D10	No	19			
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	<u>Hardwood single door frame size 950 x 2748mm high with 86 x 68mm sections and no sill.</u>			
20	D12	No	2	
	<u>FITTINGS</u>			
	<u>General</u>			
	The following cupboard fittings have been measured as complete units i.e. the components of the units have not such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips,decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc			
	<u>Where described as secret fixed timber fittings shall be fixed with 10 x 40mm fluteded beechwood dowels</u>			
	<u>User note: The references given in the descriptions are to the respective types of fittings detailed on the architect's drawings numbered A(74) 6001 accompanying these bills of quantities for tender purposes Kitchen and wall cupboards etc to classrooms (drawing A(74)6001)</u>			
	<u>Cupboards</u>			
	<u>Worktops shelving etc</u>			
21	2025mm high x 3400mm long wall mounted shelving as per drawing A (74) 6008 Rev A	No	3	
22	300 x 1100 x 19mm Laminated MDF sink shelf with laminate finish to match cupboard doors	No	3	
23	Wall mounted shelving 712mm high x 2784mm long A (74) 6012 Rev A	No	3	
24	Wall mounted shelving A (74) 6012 Rev A JO.48	No	3	
25	Floor mounted countertops720mm high x 863mm long as per drawing A (74) 6012 Rev A	No	3	
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**COLLINGWOOD PRIMARY SCHOOL
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	<u>IsoBoard high density 32-36kg/m³ rigid extruded polystyrene 100% closed cell insulation board of 60mm thickness and 600mm width with IsoPine / edge bevelled finish, tack-fixed with recommended adhesive at 200mm intervals to timber/steel branderling installed at maximum 700mm centres transversely to trusses, and edge-fixed with concealed ceiling clips screwed / pop-riveted to timber / steel branderling. Boards to be secured to perimeter branderling with drywall screws and washers at 300mm centres.</u>				
2	60mm Isoboard including 38 x 50mm branderling <u>10mm Plainvented Fibre cement ceiling</u>	m2	600		
3	10mm thick plainvented fibre cement ceiling boards , with joints covered by H-profile white PVC jointing strips,with edges finished by 19mm painted timber quadrants as per drawing A(50) 4012 Rev A <u>9mm "Rhino" gypsum plasterboard with "12mm" cover strips over joints.</u>	m2	74		
4	Ceilings including 38 x 50mm sawn softwood branderling at 450mm centres.	m2	231		
5	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated frame with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening <u>Shadowline cornices</u>	No	3		
6	Extruded high density purpose made polystrene shadowline silicon fixed to underside of ceiling and painted to match ceiling as per drawing A (50) 4012 Rev A	m	168		

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CEILINGS AND PARTITIONS

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CEILINGS AND PARTITIONS

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<u>SECTION NO 3</u>				
<u>BILL NO. 9</u>				
<u>FLOOR COVERINGS, WALL LININGS, ETC.</u>				
<u>PREAMBLES</u>				
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"				
NOTE : All materials shall be in colours to be selected by the Representative/Agent and, where applicable, laid to approved patterns				
<u>FLOOR COVERINGS</u>				
<u>2mm "Polyflor" Classic Mystique PUR fully flexible heavy duty vinyl sheeting with welded joints (Colour Quartz) F2</u>				
1	On screeded floors	m2	777.60	
<u>2mm "Polyflor" Classic Mystique PUR fully flexible heavy duty vinyl sheeting with welded joints (Colour Nocturne) - borders</u>				
2	On screeded floors	m2	194.40	
<u>SKIRTINGS, NOSINGS, ETC</u>				
3	19 x 69mm Meranti timber	m	524.00	
4	Genesis fast fit ramp transition code TCR405 complete with accessories and fittings	m	49.00	
<u>CARPET</u>				
5	9mm thick x 1200 x 300mm Class 2 fire rating Belgotex floor heavy duty commercial carpet , colour Natural Bark Woodgrain, laid diagonally across room all to manufacturers specification and SANS 10186:2010 and SANS 10186 : 2008	m2	24.00	
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Section No. 3 DOUBLE STOREY CLASSROOMS (BLOCKS B,H & F) Bill No. 9 FLOOR COVERINGS, WALL LININGS, ETC				

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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	<u>BILL NO. 10</u>			
	<u>STRUCTURAL STEELWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	<u>STEEL COLUMNS AND BEAMS</u>			
	<u>Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete</u>			
1	152 x 152 x 23mm Galvanised and painted steel H column 6.5m high	t	3.89	
2	150 x 82 x 62mm Thick GMS bracket as per drawing (A50) 4012 Rev A	No	68	
3	12 x 12 x 10mm Thick GMS spacer as per drawing (A50) 4012 Rev A	No	68	
4	10mm Thick GMS plate fitted centrally into timber post and bolted through and welded to GMS base plate as per drawing (A50) 4012 Rev A	No	68	
5	100 x 100mm Timber post as per drawing A (50) A4012 Rev A	No	68	
6	10mm Thick GMS baseplate welded to GMS spacer	No	68	
7	10mm Thick GMS baseplate welded to GMS spacer	No	68	
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	STRUCTURAL STEEL			

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STRUCTURAL STEEL

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Item No		Quantity	Rate	Amount
	<u>SECTION NO 3</u>			
	<u>BILL NO. 11</u>			
	<u>IRONMONGERY</u>			
	<u>PREAMBLES</u>			
	For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Finishes to ironmongery</u>			
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded			
	<u>HINGES, BOLTS, ETC</u>			
	<u>Hinges, pivot, etc:</u>			
1	8352-100SB Brass butt hinge	No	8	
	<u>LOCKS</u>			
	<u>Dormakaba or similar approved</u>			
2	D036S-SS Cylinder Sash lock case dimensions 116.5mm x 78mm with forend dimensions 168mm x 22w ,backset 57mm and 61mm centres	No	30	
3	D037D-SS Cylinder Deadlock case dimensions 116.5mm x78mm with forend dimensions 168mm x 22w and 57mm backset.	No	19	
4	DMWC-SS-008 Bathroom Deadlock case dimensions 38mm x 76mm with forend dimensions 78mm x 22.5mm and 55mm backset	No	5	
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

5	1450 ISEO single long throw 2 pin profile cylinder gate lock	No	19		
6	200mm Galvanised lockable padbolt with extended throw	No	2		
7	DDC106601-MK 66mm five pin euro-profiled double cylinder master keyed	No	47		
8	DKC106601-MK 66mm five pin euro-profiled knob cylinder master keyed	No	2		
9	DPL1000MK 50mm padlock master keyed	No	1		
10	DSC104301-MK 43mm five pin euro-profiled single cylinder master keyed	No	17		
11	D038R NP Rebate conversion kit for euro profile locks D038S,D037D	No	18		
12	DCE-002 S.S Round cylinder escutcheon	No	17		
13	H076 Heavy duty Stainless Steel Spring Clip	No	38		
14	DFB-SC-180 153mm Manual flush bolt with heel	No	32		
15	B2555 W & B Hardware 203mm chain bolt with long chain	No	2		
16	DBC-SS-022 Adjustable roller bolt	No	19		
17	DWC-005 Stainless steel WC Indicator bolt (red and white) and turnknob	No	5		
18	DWC-006 Stainless steel disable WC Indicator bolt (red and white) and turnknob for physically impaired	No	1		
	<u>HANDLES</u>				
	<u>Dormakaba or similar approved</u>				
19	CB30 CYL S.C Lever handle on plate with cylinder cutout	No	54		
20	DP01CBT 149 x 149mm Straight Stainless Steel Tubular	No	19		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>PULL HANDLES</u>				
21	DP01B 325 x 25mm Straight Stainless Steel Tubular Pull handle with flange fixing	No	2		
	<u>PUSH PLATES AND KICKING PLATES</u>				
	<u>Dormakaba or similar approved</u>				
22	Reference DKP-304-SF200 200mm x 1,2mm thick grade 304 brushed stainless steel kicking plates with 10 countersunk holes for screw fixing	No	6		
	<u>DOOR CLOSERS</u>				
	<u>Dormakaba or similar approved</u>				
23	Reference:TS73V Parallel arm delayed action door closer	No	1		
	<u>LETTERS, NAMEPLATES, ETC.</u>				
	<u>Dormakaba or similar approved</u>				
24	DSS-133-P 150 x 150mm "DISABLED PERSONS" sign	No	1		
25	DSS-135-TC 150 x 150mm "TEA CUP" sign	No	1		
26	DSS-145-FHR 150 x 150mm "FIRE HOSE REEL" sign	No	2		
	<u>BATHROOM FITTINGS</u>				
	<u>"Lizil"</u>				
27	Reference 359715 stainless steel double toilet roll holder plugged	No	6		
28	Standard stainless steel wall mounted paper towel dispenser model SS1118	No	7		
29	Standard stainless steel wall mounted soap dispenser-Code SSD1136	No	7		
30	Standard stainless steel wall mounted waste container Code SSD1136	No	4		
31	Reference CNTX PAR 32mm diameter satin finish stainless steel dog leg grab rail 600mm girth plugged	No	1		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

32	Reference CNTX BR 32mm diameter satin finish stainless steel "U" shaped grab rail 1760mm girth plugged	No	1		
	<u>SUNDRIES</u>				
	<u>Dormakaba or similar approved</u>				
33	Reference DHC-SS-031B Hat and coat hook with rubber buffer	No	4		
34	Reference DDH-SS-020 Wall buffer	No	1		
35	Reference 401SC Halcast doorstop and holder plugged	No	19		
36	Reference DDS-SS-017 Floor mounted stainless steel door stop plugged	No	13		
	<u>"M-Trim"</u>				
37	1.6 x 40mm cover strip fixed over expansion joints in floors	m	11		
	<u>"Galvanized mild steel water bar with fishtailed lugs at 600mm centre"</u>				
38	6 x 70mm Water bar set in concrete	No	19		
	<u>SHELVES ETC</u>				
	<u>"Gelman" with standard epoxy powder coated finish</u>				
39	Single slot wall band fixed with Eureka "Easy Fit" wall anchors at 300mm centres	m	222		
40	435mm shelf bracket	No	499		
	<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</u>				
	<u>"Flortime Premier" or other approved pinning boardwith 9mm plywood backing fixed to brickwork in timber framing (timber framing elsewhere measured)</u>				
41	Pinning boards 1800mm high x 3200mm wide	No	1		
42	Pinning boards 1800mm high x 3770mm wide	No	1		
43	Pinning boards 1800mm high x 4350mm wide	No	1		
	Carried to Collection			R	
	Section No. 3 DOUBLE STOREY CLASSROOMS (BLOCKS B,H & F) Bill No. 11 IRONMONGERY				

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

44	Pinning boards 1800mm high x 6700mm wide	No	12		
	<u>"Vitrex" or other approved chalkboards fixed to brickwork</u>				
45	Vitrex System 1000 folding type vitreous enamel steel wall mounted school chalk board, 1140 mm high x 3600 mm long, reference (1019), consisting of one fixed centre board size 1140 mm high x 1800 mm long, two fixed side boards each size 1140 mm high x 900 mm long and two swing leaves each size 1140 mm high x 900 mm long. Swing leaves to have white lines spaced at 50 mm centres, reference (1025), permanently screened on to rear face	No	13		
Carried to Collection					R
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**COLLINGWOOD PRIMARY SCHOOL
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IRONMONGERY

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Item No	Quantity	Rate	Amount
<u>SECTION NO 3</u>			
<u>BILL NO. 12</u>			
<u>METALWORK</u>			
<u>PREAMBLES</u>			
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions</u>			
Descriptions of bolts shall be deemed to include nuts and washers			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork of concrete			
Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
<u>GALVANIZED STEEL HANDRAILS, BALUSTRADES, ETC</u>			
<u>Welded balustrading to walkways</u>			
1	Horizontal balustrading to walkways of 25 x 60mm galvanised mild steel section continuous top rail, 25 x 50mm galvanised mild steel continuous bottom rail, 5x 50mm intermediate balusters at 100mm centres between top and bottom rails and 25 x 60mm section posts at approximately 700mm centres each with 150 x 100 x 5mm flat section base plate bolted to concrete (bolts M10 included) drawing A (50) 4002 Rev A	m	142
2	Extra on last for closed end to 70 x 70mm posts	No	15
3	150 x 150 x 6mm baseplate, four times holed and welded to soffit of posts	No	100
4	M16 x 100mm expansion bolt	No	45
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Raking balustrading to walkways</u>				
5	Raking balustrading to walkways of 25 x 60mm galvanised mild steel section continuous top rail, 25 x 50mm galvanised mild steel continuous bottom rail, 5x 50mm intermediate balusters at 100mm centres between top and bottom rails and 25 x 60mm section posts at approximately 700mm centres each with 150 x 100 x 5mm flat section base plate bolted to concrete (bolts M10 included) Drawing A(50) 4002 Rev A	m	12		
6	Extra on last for closed end	No	3		
7	Extra over for ramp or knee	No	5		
8	150 x 150 x 6mm baseplate, four times holed and welded to soffit of posts	No	10		
9	M16 x 100mm expansion bolt	No	15		
	<u>GALVANISED STEEL GATES, SCREENS, ETC</u>				
	<u>Galvanized mild steel screens and gates</u>				
10	Galvanised steel gate size 1797mm x 2750mm consisting of 50x50mm galvanised square hollow framing, 12mm galvanised square uprights as per drawing A(50)4034 Rev A. Gates pricing to include gloss enamel painting and bolting frame	No	3		
11	Galvanised steel gate size 1027mm x 2750mm consisting of 50x50mm galvanised square hollow framing, 12mm galvanised square uprights as per drawing A(50)4034 Rev A. Gates pricing to include gloss enamel painting and bolting frame	No	18		
	<u>DUCT PANEL COVERS- Double Volume Detail</u>				
	<u>Aluminium screen 1.2mm thick powdercoated</u>				
12	Screen size 900mm wide x 6673mm high including steel frame secured to brickwork [Drawing A(50) 2029 Rev A	No	2		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>"Type LV01" fixed louvre units fixed to brickwork or concrete</u>			
13	Type LV01 Louvre unit including frame and blades galvanised mild steel wire mesh screen size 25 x25mm flange drilling painted as per drawing A(35)5004	No	1	
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1.6mm Double rebated steel galvanised frames with one shop coat red oxide primer.</u>			
14	1.6mm thick pressed galvanized mild steel, 813mm x 2720mm single rebated frame, to suit thickness of brickwork, primed with approved red oxide primer and painted to Architect's spec. [D01]	No	11	
15	1.6mm thick pressed galvanized mild steel, 813mm x 2032mm single rebated frame with fanlight, to suit thickness of brickwork, primed with approved red oxide primer and painted to Architect's spec. [D03]	No	2	
16	1.6mm thick pressed galvanized mild steel, single rebated frame, to suit thickness of brickwork, primed with approved red oxide primer and painted to Architect's spec. [D04]	No	3	
17	1.6mm thick pressed galvanized mild steel, 813mm x 2720mm single rebated frame with fanlight, to suit thickness of brickwork, primed with approved red oxide primer and painted to Architect's spec. [D05]	No	6	
18	1.6mm thick pressed galvanized mild steel, 813mm x 2720mm single rebated frame with fanlight, to suit thickness of brickwork, primed with approved red oxide primer and painted to Architect's spec. [D06]	No	14	
19	1.6mm thick pressed galvanized mild steel, 813mm x 2720mm single rebated frame with fanlight, to suit thickness of brickwork, primed with approved red oxide primer and painted to Architect's spec. [D07]	No	1	
20	1.6mm thick pressed galvanized mild steel, 813mm x 2032mm single rebated frame with fanlight, to suit thickness of brickwork, primed with approved red oxide primer and painted to Architect's spec. [D10]	No	18	
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**COLLINGWOOD PRIMARY SCHOOL
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21	1.6mm thick pressed galvanized mild steel, 813mm x 2032mm single rebated frame with fanlight, to suit thickness of brickwork, primed with approved red oxide primer and painted to Architect's spec. [D12]	No	1
22	1.6mm thick pressed galvanized mild steel, 813mm x 2032mm single rebated frame with fanlight, to suit thickness of brickwork, primed with approved red oxide primer and painted to Architect's spec. [D16]	No	10
<u>GALVANIZED STEEL LOURVED DOORS</u>			
<u>813 x 2720mm high g alvanised mild steel fully louvred single door</u>			
23	D15	No	4
<u>GALVANIZED STEEL WINDOWS, DOORS, ETC</u>			
<u>Purpose made galvanised steel windows frames with PFX7 sections with 12mm "XPANDA Superguard" or equally approved square solid steel burglar bars consisting of horizontal bars with 12mm supporting vertical members to be powder coated charcoal including coloured flashing surround</u>			
24	Purpose made window 1000 x 2270mm high (W4)	No	10
25	Purpose made window 989 x 750mm high (W5)	No	22
26	Purpose made window 890 x 1785mm high (W7)	No	12
27	Purpose made window 889 x 650mm high (W8)	No	7
28	Purpose made window 889 x 650mm high (W9)	No	16
29	Purpose made window 570 x 1500mm high (W12)	No	9
30	Purpose made window 680 x 595mm high (W13)	No	9
31	Purpose made window 1990 x 595mm high (W14)	No	21
32	Purpose made window 4065 x 1785mm high (W15)	No	2
33	Purpose made window 3600 x 1785mm high (W16)	No	1
34	Purpose made window 890 x 890mm high (W18)	No	30
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35	Purpose made window 1990 x 1785mm high (W19)	No	2	
<u>GALVANIZED STEEL DOORS</u>				
36	1.6mm thick pressed galvanized mild steel, 813mm x 2032mm single rebated frame with fanlight, to suit thickness of brickwork, primed with approved red oxide primer and painted to Architect's spec. [D15]	No	4	
37	1.6mm thick pressed galvanized mild steel, 1525mm x 2440mm single rebated frame with fanlight, to suit thickness of brickwork, primed with approved red oxide primer and painted to Architect's spec. [D14]	No	1	
<u>ALUMINIUM</u>				
The following specifications are to be complied with:				
Aluminium alloy extrusion: BSS 1474				
Aluminium alloy sheets: SABS 903				
Anodising: SABS 999				
Neoprene perfomed seals and gaskets: SATM C542				
Powder coat finishing: SABS 1274				
DOORS, WINDOWS, ETC to be manufactured by an approved firm of specialists, to be of the best quality and design truly sqared and unless otherwise described, prepared to receive glazing beads from the outside. All opening portions must fit perfectly on all faces and be so hung as to open and close freely without binding at any point. Wherever possible , all angles and intersections to be welded by electric welding , argon or arc welding. A sample window is to be submitted to the Representative/Agent for approval before the work is put in hand.				
The frames generally are to be suitable for brickwork, blockwork or concrete reveals.They are to be fitted with fixing lugs of 2,8mm aluminium 13 mm wide x 100mm long welded to framing, one near each corner and intermediately not more than 300mm apart to sides top and bottom. Where concrete reveals , etc., the frames are to be countersunk holed for and fitted with the necessary screws at the centres as for the lugs above.				
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Section No. 3 DOUBLE STOREY CLASSROOMS (BLOCKS B,H & F) Bill No. 12 METALWORK				

Immediately after the windows , doors, etc., have been delivered on to the site, they are to be thoroughly overhauled and all necessary adjustment or repairs made before they are fixed in position. Where they come into contact with brickwork, blockwork, concrete, steel, etc., the framing is to be treated with bituminous paint in an approved manner. The windows, doors, etc., are to be placed in their positions for building in and adjusted to open and close properly and are to be securely structured to prevent distortion whilst the brickwork and lintols, are being built. On completion of all other work the windows, doors, etc., are to be adjusted as necessary and rendered in a complete and satisfactory state of repair and in working order.

GLAZING GENERAL All rates for doors, windows, shopfronts etc., should include for all glazing as specified.

GLAZING BEADS All door, etc., to be fitted with glazing beads, unless otherwise described, mitred at angles and screwed on.

GLASS AND GLAZING All functional glass must be delivered to site, cut to size and ready for installation and must be classified to indicate grade and thickness. Labels must remain on each piece of glass until it is glazed, inspected and officially accepted in writing by the employer, thereafter an insurance letter will follow absolving the contractor of responsibility.

FACTORY GLAZING All glazing carried out in manufacturer's factory must be in accordance with window fabricated types. Manufacturing of frames must provide for glass, vinyl extrusions cut off sharp at corners; these are to line up with frame/glass rebates.

GLAZING ON SITE This is to be carried out in accordance with glass specification previously referred to. Glazing in windows must be undertaken from outside, with drawn vinyl strips, Neoprene gaskets, and not hardening "Bitumastic" putty, as described.

ADJUSTED LOUVRES to be adjustable, complete with frame, stiles, centrally pivoted double sprung glass holders, weather beads, glass louvres, burglar proofing, etc.

SIZES The sizes given are approximate and are not to be used for ordering purposes, but careful references must be made to the building for exact sizes. Any costs incurred for errors in this respect shall be at the Contractor's expense. All items are unless otherwise described measured net.

BUILDING IN Windows, doors, etc., must be set up and built in complete in position in concrete or brickwork and left completely watertight and prices should include therefor.

ANODISING Anodising of aluminium sections must comply with SABS 399-1947. Anodising must be a minimum of 25 MIKRON

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DOUBLE STOREY CLASSROOMS (BLOCKS B,H & F)
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PROTECTING Windows, doors, etc., must, wherever practicable, be erected as near to the end of the contract period as possible to minimise the danger of damage of deterioration and all work must be protected by covering up with temporary casings against damage, deterioration or discolouration caused by mortar droppings, varnish, wax, paint, etc., all to the entire satisfaction of the Representative/Agent

IRONMONGERY Windows and doors are to be fitted with the necessary locks, door closers, etc., as described and prices should include therefor

DRAWINGS Tenderers are referred to Architect's drawings at the back of these bills of quantities for tender purposes.

ALUMINIUM SHOPFRONTS

Powder coated aluminium shopfront with polycarbonate multiwall system and louvre panels with 50x150mm mullion sections including 8mm multiwall polycarbonate panels to be in supporting frame complete with with subframes, ironmongery, glass, sealing, etc and fixing to brickwork or concrete.

38	Purpose made shopfront type SF-B01, 1795 x 2720mm high overall as per drawing No A(33)5001	No	1
39	Purpose made shopfront type SF-B02, 3499 x 2720mm high overall as per drawing No A(33)5002	No	1
40	Purpose made shopfront type SF-B03, 3310 x 2720mm high overall as per drawing No A(33)5002	No	1
41	Purpose made shopfront type SF-B04, 36035 x 750mm high overall as per drawing No A(33)5002	No	1
42	Purpose made shopfront type SF-F01, 28835 x 750mm high overall as per drawing No A(33)5004	No	1
43	Purpose made shopfront type SF-F02, 1200 x 750mm high overall as per drawing No A(33)5004	No	2
44	Purpose made shopfront type SF-F03, 2131 x 2730mm high overall as per drawing No A(33)5004	No	1

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**COLLINGWOOD PRIMARY SCHOOL
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45	Purpose made shopfront type SF-F04, 933 x 2730mm high overall as per drawing No A(33)5004	No	1		
46	Purpose made shopfront type SF-H01, 3370 x 2730mm high overall as per drawing No A(33)5005	No	1		
47	Purpose made shopfront type SF-H02, 28835 x 750mm high overall as per drawing No A(33)5005	No	1		
48	Purpose made shopfront type SF-H03, 1200 x 750mm high overall as per drawing No A(33)5006	No	2		
<u>STEEL ROLLER SHUTTERS, ETC</u>					
<u>Galvanised steel powder coated roller shutters with 76mm slats (18kg/m²), fixed to brickwork or concrete</u>					
49	Roll-Up Serranda Series 1500 powder coated push-up 75 x 0,8mm thick endlocked slatted curtain roller shutter for opening 2100x1225mm high with overhead box 335mm high including canopy cover, standard bottom rail, 75mm wide guides, extruded aluminium T-b (RD03)	No	1		
<u>Strong room Mutual D-S 6mm record door complete unit, SANS 1015 compliant, as per manufacturers instruction</u>					
50	D07	No	1		
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COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS

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**COLLINGWOOD PRIMARY SCHOOL
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Item No	Quantity	Rate	Amount
<u>SECTION NO 3</u>			
<u>BILL NO. 13</u>			
<u>PLASTERING</u>			
<u>PREAMBLES</u>			
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"			
<u>SCREEDS</u>			
<u>25Mpa Cement plaster screeds steel trowelled on concrete</u>			
1	25mm Thick on floors and landings m2	1 005	
<u>INTERNAL PLASTER</u>			
<u>Cement plaster on brickwork</u>			
2	On walls m2	3 108	
<u>Cement plaster rendering coat with gypsum skim plaster finishing coat, on concrete</u>			
3	On ceilings m2	507	
<u>EXTERNAL PLASTER</u>			
<u>Cement plaster on brickwork</u>			
4	On walls m2	360	
<u>SPECIALIST FLOOR COVERINGS</u>			
<u>Clean floor surface free from dust , grease, spills etc, ready to receive Stonclad UL all in accordance with manufacturers specifications</u>			
5	3-4mm impact and self levelling polyurethane urea cement floor screed to screeded concrete floors m2	151.00	
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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PLASTERING

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PLASTERING

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Item No		Quantity	Rate	Amount
<u>SECTION NO 3</u>				
<u>BILL NO. 14</u>				
<u>TILING</u>				
<u>PREAMBLES</u>				
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Descriptions</u>				
Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding				
<u>WALL TILING</u>				
<u>200 x 200 x 5mm White gloss glazed ceramic tiles on brickwork including cement plaster backing</u>				
1	On walls	m2	150.00	
<u>200 x 200 x 5mm Grey gloss glazed ceramic tiles on brickwork including cement plaster backing</u>				
2	On walls	m2	150.00	
<u>200 x 200 x 5mm Turquoise gloss glazed ceramic tiles on brickwork including cement plaster backing</u>				
3	On walls	m2	150.00	
<u>200 x 200 x 5mm Dark blue gloss glazed ceramic tiles on brickwork including cement plaster backing</u>				
4	On walls	m2	150.00	
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Section No. 3 DOUBLE STOREY CLASSROOMS (BLOCKS B,H & F) Bill No. 14 TILING				

Copper pipes

Pipes shall be hard drawn and half-hard pipes of the class stated. 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. Only compression fittings shall be used in walls or in ground

Exposed concrete surfaces

Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster

Excavations

No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling "Soft rock" and "hard rock" shall be as defined in "Earthworks"

Laying, backfilling, bedding, etc of pipes

Laying, backfilling, bedding, etc of pipes Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 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 SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding

Flush pans

Flush pans shall have straight or side outlets and "P" or "S" traps as necessary

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DOUBLE STOREY CLASSROOMS (BLOCKS B,H & F)
Bill No. 15
PLUMBING AND DRAINAGE

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

Stainless steel basins, sinks, wash troughs, urinals, etc

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable

Waste unions

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings

RAINWATER DISPOSAL

3mm Galvanised sheet iron with expanded mesh
aluminium leaf guard

1	650mm girth box gutters with four bends	m	87
2	1200mm girth box gutters with three bends	m	36
3	Extra over for outlet for 70mm outlet pipe	No	12
4	Extra over for stopped end for 650mm girth gutter	No	6
5	Extra over for stopped end for 1200mm girth gutter	No	2
6	Extra over for cross gutter strengthening cleat for 650mm girth gutter	No	16
7	Extra over for cross gutter strengthening cleat for 1200mm girth gutter	No	7
<u>0.8mm Aluminium gutters fixed to purlins at 500mm centres with G4 colourtech internal and externally</u>			
8	150 x 125mm Ogee eaves gutters with a beaded front edge	m	132
9	Extra over 150 x 125mm eaves gutter for 75 x 100mm outlet pipe	No	20
10	Extra over 150 x 125mm eaves gutter for stopped end	No	4
11	Extra over 150 x 125mm eaves gutter for angle	No	41
<u>0.6mm aluminium seamless downpipes coated with Colourtech G4 white all round</u>			
12	70mm diameter pipe fixed to wall	m	63

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DOUBLE STOREY CLASSROOMS (BLOCKS B,H & F)
Bill No. 15
PLUMBING AND DRAINAGE

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

13	Extra over 70mm rainwater pipe for bend	No	27
14	Extra over 70mm rainwater pipe for 600mm swan neck	No	14
15	Extra over 70mm rainwater pipe for shoe	No	24
16	70 x 100mm pipe fixed to wall	m	61
17	Extra over 75 x 100mm rainwater pipe for bend	No	20
18	Extra over 75 x 100mm rainwater pipe for 600mm swan neck	No	20
19	Extra over 75 x 100mm rainwater pipe for shoe	No	20
<u>SOIL WASTE AND VENT PIPES</u>			
<u>GEBERIT HDPE or equal approved drainage piping including cutting, pipe preparation, brackets, hangers & butt welded pipes</u>			
20	56mm Diameter pipes	m	67
21	56mm Diameter pipes under concrete slabs	m	12
22	110mm Diameter pipes	m	94
23	110mm Diameter pipes under concrete slabs	m	17
<u>Extra over HDPE pipes for fittings</u>			
24	56mm Bend	No	71
25	56mm Junction	No	8
26	56mm ringseal socket	No	34
27	56mm fusion coupling	No	17
28	56mm expansion socket	No	6
29	56 x 40mm sleeve	No	16
30	110mm bend	No	31
31	110mm eccentric reducer	No	4
32	110mm Reducing junction	No	7

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PLUMBING AND DRAINAGE

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

33	110mm Junction	No	14
34	110mm ringseal	No	12
35	110mm fusion socket	No	11
36	110mm expansion socket	No	13
37	110mm Pan connector	No	21
38	110mm connecting pipe	No	21
39	110mm rodding eye	No	4

HOT AND COLD WATER SERVICES

Geberit 'Mepla' multi layered mepla pipe including couplers in running lengths, cramping and fixing to holderbats and chasing droppers to brickwork wrapped in kraft paper

40	20mm Diameter pipes	m	143
41	26mm Diameter pipes	m	64
42	32mm Diameter pipes	m	33
43	40mm Diameter pipes	m	17

Extra over 'Geberit' Mepla pipe for

44	20mm Fitting	No	271
45	26mm Fitting	No	106
46	32mm elbow	No	15
47	32mm tee / reducing Tee	No	2
48	32mm reducer	No	3
49	32mm adaptors	No	6
50	40mm Elbow	No	2
51	40mm tee / reducing Tee	No	1
52	40mm reducers	No	1

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

53	40mm adaptors	No	2		
	<u>Thermal Insulation to hot water pipes applied in accordance with the manufacturers instructions</u>				
54	25mm minimum insulation thickness - For pipe size up to 28mm	m	75		
	<u>Cladding to insulation</u>				
55	0.6mm galvanised cladding to exposed insulation	m	75		
	<u>SANITARY FITTINGS</u>				
	<u>As supplied by Vaal Sanitaryware (White), sealed to tiled walls with silicon sealant as necessary</u>				
	<u>Water closets</u>				
56	Entice Vaal® wall hung paraplegic WC with standard matching seat. Code: 439600 with Concealed Cistern with actuator plate. Code: 38732000.	No	9		
57	Vandal Resistant Universal WC Pan from non-porous homogenous polymeric material. Code: GYP/VA.R1/01. FLUSHING SYSTEM: Sanitaryware Hibiscus concealed cisterns (7116DP).	No	12		
	<u>Urinal</u>				
58	Sweetpea Vaal® wall hung bowl urinal with back inlet. (Not top inlet). Code: 705127. Installation set with nipple made of brass.	No	8		
59	Franke® urinal divider "Wing" for wall mounting, made of 10.3 mm thick tempered safety glass, silhouette in form of a wing, fixing devices stainless steel, incl. stainless steel screws and dowels. Code: 2000057414.	No	4		
	<u>Wash hand basins</u>				
60	WHB: Vaal® Sanitaryware vitreous china 450 x 350mm "Midi – Weaver" rectangular surface mounted vanity basin with one taphole. Code: VAA-706601WH.	No	11		
61	WHB: Corian® moulded continuous wash trough vanity with 300mm sink combination trap as per detail.	No	4		
Carried to Collection				R	
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DOUBLE STOREY CLASSROOMS (BLOCKS B,H & F)					
Bill No. 15					
PLUMBING AND DRAINAGE					

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Sinks</u>				
62	1200x535 DEB Grade 304 18/10 polished stainless steel double end bowl drop on sink (Code: 312081), overall size 1200 x 535mm with two 343 x 410 x 140mm deep bowls, fitted onto cupboard (elsewhere specified) including PVC traps (traps elsewhere specified) with 38mm waste fitting.	No	1		
	<u>TAPS, VALVES, ETC.</u>				
	<u>Taps, valves, etc., including coupling to pipes and/or fittings</u>				
	<u>As supplied by Cobra Watertech</u>				
63	Metering spout, wall type with non-hold open feature, flow controller and wall flange. Code: KM066WT-114.	No	9		
64	Chrome metering pillar tap with self-closing and flow control. Code: KM2-100FS.	No	4		
65	Chrome plated elbow action pillar tap. Code COB-NM-851.	No	7		
66	15mm 'Cobra' No. 832-10 chromium plated angle regulating valve	No	43		
67	Franke® Active Plus Onyx sink mixer (colour: black) or similar approved, installed to manufacturer's recommendations. Code: 1150032.	No	1		
68	Geberit® urinal flush control, Universal Geberit® urinal flush control with pneumatic flush actuation, Sigma10: stainless steel-brushed/polished/brushed	No	6		
	<u>WASTE UNIONS, TRAPS, ETC.</u>				
	<u>As supplied by Cobra Watertech</u>				
69	32mm Chromium plated slotted basin waste with plug, chain and stay Ref. No. 301	No	19		
70	Cobra® trap, 40mm Chrome plated deep seal bottle trap with outlet for 50mm PVC, with 300mm long tailpipe with wall flange. Code: 385/35SQ. As per manufactures instruction.	No	11		
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	Section No. 3 DOUBLE STOREY CLASSROOMS (BLOCKS B,H & F) Bill No. 15 PLUMBING AND DRAINAGE				

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

71	38mm Chromium plated sink waste Ref. No. 316/40	No	2		
72	40mm Chrome plated deep seal bottle trap 340/45	No	6		
73	38mm Chromium plated urinal waste Ref. No. 317/40	No	8		
74	Floor drain with permanent water seal and 6l basket. Manufactured from Stainless steel 304. To be connected in accordance with the SAN 10400 requirements and manufacturers instruction.	No	11		
	<u>As supplied by Franke</u>				
75	550mm long horizontally placed grab rail to rear of WC – code CNTX 550	No	5		
76	Angle grab rail adjacent to WC - code CNTX PAR.	No	5		
77	Double toilet roll holder with spindle system for wall mounting, stainless steel, surface satin finished, material thickness 1.5 mm, curved front cover, cylinder lock, for 2 rolls with max. Ø 120 mm, second roll will be released after consumption of first roll, with spindles, reserve roll not visible, incl. stainless steel screws and dowels. Overall size 156Wx303Hx141D. Code: 359715.	No	22		
78	Soap dispenser for wall mounting, stainless steel, surface satin finished, front, material thickness 1.5 mm, curved front cover, cylinder lock, inspection window on front, suitable for liquid soaps and lotions, 0.8 liter soap tank, with plastic pull lever, incl. stainless steel screws and dowels. Overall size 100Wx304Hx134D. Code:359740.	No	14		
79	Paper towel dispenser with front cover from High Grade 304 Stainless Steel material available in Satin (Code SS1118) finish. Dimensions:Height (H): 330mm, Width (W): 280mm, Depth (D): 220mm	No	13		
80	38l stainless steel (Grade 304, satin finish), wallhung bin with plastic in lining. Overall size 385H x 340Wx 290D. Code: SD1136.	No	13		
	<u>Drinking fountain</u>				
81	Concrete civic drinking fountain size 850mm (pebble dash finish) with integrated spring-loaded valve, fitted in accordance with manufacturer`s recommendations (Code – MK1).	No	1		
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DOUBLE STOREY CLASSROOMS (BLOCKS B,H & F)					
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PLUMBING AND DRAINAGE					

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

Geysers

82 10 liter under counter water heater with 22mm connection and fitted with electric element, pressure gauge, safety valve, pressure relief valve, 20mm air relief valve/vacuum breaker, including all joints to copper pipes and fixing into position and connection up. Code: PRX-10-UB

No

1

83 100L Econoflo dual horizontal electric water heater complete with tp valve, drain cork and 3KW element and automatic thermostat and connection to water supply pipe, including heavy duty brackets for bolting to wall with 12mm rawl expanding bolts. The overflow from the TP valve to be pipe to the external of the building over the closest gully. (Electric connection by electrician) Including prv and vacuum breakers

No

1

TESTING

Testing of the following installations

84 Waste and ventilation installation

Item

85 Hot and cold water installation

Item

86 Allow for flushing out and super-chlorinating the whole of the water supply installation

Item

Carried to Collection

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Section No. 3
DOUBLE STOREY CLASSROOMS (BLOCKS B, H & F)
Bill No. 15
PLUMBING AND DRAINAGE

COLLINGWOOD PRIMARY SCHOOL

NEW BUILDINGS AND ANCILLARY SITE WORKS

Section No. 3

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PLUMBING AND DRAINAGE

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DOUBLE STOREY CLASSROOMS (BLOCKS B,H & F)

Bill No. 15

PLUMBING AND DRAINAGE

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

3	On internal concrete ceilings	m2	507		
	<u>PAINT ON METAL</u>				
	<u>Prepare, touch up primer and apply one coat "Dulux" steel primer one coat "Dulux" universal undercoat and three coats "Dulux Dura 100" high gloss enamel paint</u>				
4	On pressed steel door frames	m2	80		
	<u>Prepare, touch up primer and apply one coat "Dulux Duraphos" one coat "Dulux" universal undercoat and two coats "Dulux Dura 100" high gloss enamel paint</u>				
5	On steel windows with burglar bars (both sides measured)	m2	270		
6	On gates, grilles, louvres, balustrading etc (both sides measured)	m2	60		
7	On eaves gutters and down pipes not exceeding 300 mm girth	m	300		
	<u>PAINT ON WOOD</u>				
	<u>Two coats carbolineum wood preservative</u>				
8	On roof timbers at eaves and verges	m2	260		
	<u>Prepare and apply one coat "Dulux" wood primer two coats "Dulux" universal undercoat and three coats "Dulux" eggshell enamel paint</u>				
9	On doors	m2	350		

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Section No. 3
DOUBLE STOREY CLASSROOMS (BLOCKS B,H & F)
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PAINTWORK

Section No. 3

Bill No. 17

PAINTWORK

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DOUBLE STOREY CLASSROOMS (BLOCKS B,H & F)
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

Bill No	SECTION SUMMARY - DOUBLE STOREY CLASSROOMS (BLOCKS B,H & F)	Page No	Amount
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8	CEILINGS AND PARTITIONS	146	
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10	STRUCTURAL STEEL	150	
11	IRONMONGERY	156	
12	METALWORK	165	
13	PLASTERING	168	
14	TILING	169	
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16	GLAZING	180	
17	PAINTWORK	183	
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Section No. 3 DOUBLE STOREY CLASSROOMS (BLOCKS B,H & F)			

WORKING SPACE

Working space for formwork to sides of all concrete, except columns, shall be measured only where the concrete face is less than 750mm from the face from the measured excavations

Working space for formwork to sides of columns shall be measured for the width of the column face only where both:

(a) The top of the column base is more than 1,5m below the commencing level of the excavations and

(b) The column face is less than 500mm from the face of the measured excavation

No claim shall be considered for any working space for formwork to concrete other than as above described or for working space beyond the sides of trench excavations for the building of brick or block walls.

Descriptions of excavations for working space shall be deemed to include for any additional risk of collapse so incurred and for the returning and compacting of the excavated material as described.

SOIL POISONING

The contractor will be required to provide a guarantee from a registered (member of SAPCA) soil poisoning company for the soil insecticide and weed killing applications

REMOVAL OF EXISTING WORK:

NATURE OF WORK Tenderers are advised to visit the site and to satisfy themselves as to the nature and extent of the work to be done and provide in their tenders for any items not specifically mentioned which they may deem necessary for the proper completion of the work. Tenderers are advised that the existing building will be in occupation during the progress of the work and due allowance must be made for the work being carried out at such times and in such manner as will least interfere with the routine of the occupants and as may be directed by the Quantity Surveyor.

Carried to Collection

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Section No. 4
MULTI-PURPOSE (BLOCK G)
Bill No. 1
EARTHWORKS

DIMENSIONS The Contractor is advised to take all dimensions affecting the existing buildings on the site, as he will be held solely responsible for all new work being of the correct sizes.

PIPES, ETC. Special care is to be taken not to interfere unnecessarily with any water supply pipes or other piping that may be met with and found necessary to disconnect or cut, are to be effectively stopped off and any new connections that may be necessary are to be made with proper fittings and to the satisfaction of the Quantity Surveyor to whom due notice must be given of any alterations to the existing services.

PROTECTION In taking down and removing existing work the utmost care is to be observed to avoid any structural or other damage to the remaining portions of the buildings. The Contractor must also protect all work not removed such as walls, floors, doors, windows or other joinery, loose and fixed fittings and electrical appliances, etc., from damage during the progress of the work and provide all necessary materials for so doing. The Contractor will be held solely responsible for any damage to persons or property and for the safety of the structure throughout the whole of this Contract and must make good at his own expense any damage that may occur.

CREDITS, ETC. Old materials from the pulling down (except such as are described to be re-used or handed over) are to become the property of the Contractor who shall allow credit as provided for in the summary at the end of these Bills of Quantities. Old materials for re-use are to be carefully removed, stored and protected from injury including making good any damaged or defective parts as required before refixing. Old materials described to be handed over are to be carefully removed and neatly stacked on site where directed. The remainder of the old materials and all rubbish to be immediately carted away and the site left clean and unencumbered. None of the old stock bricks from the pulling down are to be re-used for any new work.

EXCAVATIONS

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Section No. 4
MULTI-PURPOSE (BLOCK G)
Bill No. 1
EARTHWORKS

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

[illegible]

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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Section No. 4

Bill No. 1

EARTHWORKS

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Section No. 4

MULTI-PURPOSE (BLOCK G)

Bill No. 1

EARTHWORKS

Formwork

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 re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.

Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"

CONCRETE

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

15MPa/19mm concrete

1	Surface blinding under footings and bases	m3	26	
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REINFORCED CONCRETE

30Mpa/19mm concrete

2	Strip footings	m3	53	
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REINFORCED CONCRETE CAST ON/IN FORMWORK

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Section No. 4
MULTI-PURPOSE (BLOCK G)
Bill No. 2
CONCRETE, FORMWORK AND REINFORCEMENT

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

<u>30Mpa/19mm concrete</u>		
Filling 50mm cavity walls reinforced with fabric or steel bars (fabric reinforcement and steel bars elsewhere measured)	m3	1
Surface beds on waterproofing	m3	64
Slabs including beams and inverted beams	m3	5
Walls	m3	1
Columns	m3	2
<u>CONCRETE TEST CUBES</u>		
Prepare set of three 150 x 150 x 150mm concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional)	No	10
<u>SUNDRIES</u>		
<u>Finishing top surfaces of concrete smooth with a power float</u>		
Surface beds, slabs, etc	m2	509
<u>FORMWORK</u>		
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>		
<u>Smooth formwork to sides</u>		
Square columns with total height exceeding 3m and not exceeding 3.5m above bearing level	m2	3
Isolated beams	m2	35
<u>Smooth formwork to sides and soffits</u>		
Beams "Labour Intensive"	m2	15
<u>MOVEMENT JOINTS</u>		
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Bill No. 2		
CONCRETE, FORMWORK AND REINFORCEMENT		

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Malthoid slip joints between horizontal concrete and brick surfaces including cement mortar bed</u>				
13	Not exceeding 300mm wide	m	56		
	<u>Expansion joints with 12mm softboard between vertical concrete and brick surfaces</u>				
14	12mm Joints not exceeding 300mm high	m	56		
	<u>Saw cut joints</u>				
15	6 x 25 mm Saw cut joint in top of concrete	m	56		
	<u>REINFORCEMENT</u>				
	<u>Mild steel reinforcement to structural concrete work</u>				
16	16mm Diameter bars	t	0.20		
17	12mm Diameter bars	t	0.20		
18	10mm Diameter bars	t	0.40		
19	8mm Diameter bars	t	0.20		
	<u>High tensile steel reinforcement to structural concrete work</u>				
20	16mm Diameter bars	t	2.00		
21	12mm Diameter bars	t	2.00		
22	10mm Diameter bars	t	2.00		
	<u>Fabric reinforcement</u>				
23	Type 311 fabric reinforcement in concrete surface beds etc	m2	509		
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CONCRETE, FORMWORK AND REINFORCEMENT

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Bill No. 2

CONCRETE, FORMWORK AND REINFORCEMENT

R

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

FOUNDATIONS

Loadbearing brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar

1	270mm hollow walls of two half brick skins including wire ties	m2	138
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SUPERSTRUCTURE

Brickwork of NFP bricks in class II mortar

2	Half brick walls	m2	28
3	One brick walls	m2	198
4	270mm Hollow walls of two half brick skins including wire ties	m2	544

SUNDRIES

5	Splayed mortar fillet one course high in 40mm cavity Splayed mortar fillet three courses high in 40mm cavity	m	80
6	Splayed mortar fillet four courses high in 170mm cavity to seat	m	70
7	Closing 50mm cavity of 270mm hollow wall vertically with one course of brickwork at jambs	m	200
8	Closing 50mm cavity of 270mm hollow wall horizontally with one course of brickwork at top	m	20

Brick reinforcement

9	Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	82
10	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	2 181

Prestressed concrete lintels including temporary supports

11	145 x 75mm Lintels in lengths not exceeding 1.5m	m	60
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MULTI-PURPOSE (BLOCK G)
Bill No. 4
MASONRY

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

12	145 x 75mm Lintels in lengths exceeding 1,5m not exceeding 3.0m	m	72		
	<u>Galvanised hoop iron cramp ties etc.</u>				
13	30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end built into brickwork	No	100		
14	30 x 1,6mm Wall tie 0.9m long with T shaped end built into external cavity wall the other end set into brickwork	No	100		
	<u>FACE BRICKWORK</u>				
	<u>"Corobrick Firelight Satin" or equal approved face bricks pointed with recessed horizontal and vertical joints</u>				
15	Extra over brickwork for face brickwork	m2	629		
16	Extra over brickwork for honeycomb face brickwork	m2	122		
17	Extra over brickwork for recessing one brick course 20mm	m	30		
18	Extra over brickwork for brick-on-edge header course sloping sill 400mm girth pointed on face and bottom edge and including cement backing all fair cutting and special squint brick on bottom edge	m	30		
19	Extra over brickwork for brick-on-end soldier course band to window head pointed on all exposed edges	m	30		
20	Extra over brickwork for brick-on-end soldier course band	m	30		
21	Bullnosed brick on edge header course projecting 50mm from wall	m	30		
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COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS

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Bill No. 4

MASONRY

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Bill No. 4
MASONRY

Item No		Quantity	Rate	Amount
<u>SECTION NO 4</u>				
<u>BILL NO. 6</u>				
<u>ROOF COVERINGS, ETC</u>				
<u>PREAMBLES</u>				
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
0.8mm "Safintra Newlok" aluminium roof sheeting with a COLORPLUS (Colour: Sea Spray Matt) coated finish to one side with a Cool Grey backing coat and accessories fixed to SA pine purlins supported on laminated SA pine rafter at centres as specified with timber bracing strut all to Structural Engineer details including all necessary flashing and cover trims matching the finish of the main roof, to be installed in accordance with manufactures details and specifications.				
1	Roof covering with a pitch not exceeding 25 degrees	m2	705	
2	Side cladding	m2	60	
3	0.8mm thick x 138mm wide aluminium folded flashing	m	113	
4	275mm girth fascia flashing eight times bent	m	80	
5	462mm girth barge flashing.	m	40	
6	462mm girth, apex flashing	m	60	
7	500mm girth, profiled eaves closer piece	m	60	
8	Extra forming hole for 75 x 100mm downpipe	No	15	
9	Narrow flute closers	m	10	
10	Broad flute closers	m	5	
Carried to Collection				
Section No. 4 MULTI-PURPOSE (BLOCK G) Bill No. 6 ROOF COVERINGS, ETC				

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COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS

Section No. 4

Bill No. 6

ROOF COVERINGS, ETC

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MULTI-PURPOSE (BLOCK G)
Bill No. 6
ROOF COVERINGS, ETC

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<u>Descriptions</u>		
The term "planted on" shall mean the nailing of one timber member to another. The term "screwed on" shall mean the countersunk screwing of one timber member to another. The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screws sunk and pelleted. The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete. The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screws sunk and pelleted. The term "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete		
Desriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting. Descriptions of items given in lineal metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc. Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.		
<u>ROOFS ETC</u>		
<u>Sawn softwood</u>		
150x50 SAP treated flashing support fixed to rafter	m	204
50 x 75mm Purlins	m	791
38 x 100mm Bracing	m	60
<u>Wrot Laminated Pine</u>		
70 x 333mm Rafter	m	430
70 x 333mm Eaves closer piece 930mm long with metal brackets both ends including bolting to rafter with two 8mm x 15mm bolts	No	60
Extra for notched end 400mm girth	No	60
<u>SKIRTINGS</u>		
Carried to Collection		
Section No. 4 MULTI-PURPOSE (BLOCK G) Bill No. 7 CARPENTRY AND JOINERY		

	<u>Wrot meranti</u>				
7	19 x 69mm Cornice with moulded edge nailed	m	365		
	<u>TIMBER DOORS</u>				
	<u>Single framed and ledged door 44mm Thick 817 x 2105mm thick framed and ledged door with 114mm wide stiles and head rails, 228x20mm centre and bottom rails and 114x20mm thick braces. The edges of stiles and top rails to be rebated and grooved for and filled in with 22mm thick tongue and grooved and v-jointed boarding, twice countersunk screwed to each ledge from inside. The inner edges of stiles and top rail to be rebated for on inside and filled with 6mm thick plywood panel faced with veneer to match, glued and pinned</u>				
8	D02	No	1		
	<u>Single framed and ledged door 44mm Thick 813 x 2032mm thick framed and ledged door with 114mm wide stiles and head rails, 228x20mm centre and bottom rails and 114x20mm thick braces. The edges of stiles and top rails to be rebated and grooved for and filled in with 22mm thick tongue and grooved and v-jointed boarding, twice countersunk screwed to each ledge from inside. The inner edges of stiles and top rail to be rebated for on inside and filled with 6mm thick plywood panel faced with veneer to match, glued and pinned</u>				
9	D03	No	1		
	<u>Double framed and ledged door 44mm Thick 1673 x 2748mm thick framed and ledged door with 114mm wide stiles and head rails, 228x20mm centre and bottom rails and 114x20mm thick braces. The edges of stiles and top rails to be rebated and grooved for and filled in with 22mm thick tongue and grooved and v-jointed boarding, twice countersunk screwed to each ledge from inside. The inner edges of stiles and top rail to be rebated for on inside and filled with 6mm thick plywood panel faced with veneer to match, glued and pinned</u>				
10	D04	No	2		
	<u>Heavy duty solid core door with fanlight flush panel 813 x 2032mm with hardwood edge for exterior use with top light</u>				
11	D05	No	2		
	Carried to Collection				
	Section No. 4			R	
	MULTI-PURPOSE (BLOCK G)				
	Bill No. 7				
	CARPENTRY AND JOINERY				

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

12	D06 <u>WC CUBICLE DOOR</u> 44mm thick x 813 x 2125mm high single flush meranti timber door	No	8
13	D10 44mm thick x 950 x 2032mm WC disabled cubicle solid timber door with hardwood edging along edge of door with toplight above.	No	12
14	D12 <u>FRAMES ETC</u> FRAMED FRAMES, MULLIONS, TRANSOMS, ETC Hardwood Hardwood single door frame size 813 x 2125mm high with 86x68mm sections and no sill.	No	2
15	D10 Hardwood single door frame size 950 x 2748mm high with 86x68mm sections and no sill.	No	12
16	D12 <u>FITTINGS</u> <u>General</u> The following cupboard fittings have been measured as complete units i.e. the components of the units have not such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc <u>Where described as secret fixed timber fittings shall be fixed with 10 x 40mm fluteded beechwood dowels</u>	No	2
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

User note: The references given in the descriptions are to the respective types of fittings detailed on the architect's drawings numbered A(74) 6001 accompanying these bills of quantities for tender purposes Kitchen and wall cupboards etc to classrooms (drawing A(74)6001)

Worktops shelving etc

17	16mm Melamine Novalam faced blockboard shelf 435mm wide	m	15		
18	16mm Melamine faced worktop 622mm wide with 22 x 75mm melamine downstand fascia and 38 x 50mm bearer plugged to brickwork	m	15		
19	16mm Melamine faced division panels 622 x 900mm high bolted to concrete	No	30		

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>IsoBoard high density 32-36kg/m³ rigid extruded polystyrene 100% closed cell insulation board of 60mm thickness and 600mm width with IsoPine / edge bevelled finish, tack-fixed with recommended adhesive at 200mm intervals to timber/steel branderling installed at maximum 700mm centres transversely to trusses, and edge-fixed with concealed ceiling clips screwed / pop-riveted to timber / steel branderling. Boards to be secured to perimeter branderling with drywall screws and washers at 300mm centres.</u>				
2	60mm Isoboard including 38 x 50mm branderling	m2	302		
	<u>10mm Plainvented Fibre cement ceiling</u>				
3	10mm thick plainvented fibre cement ceiling boards , with joints covered by H-profile white PVC jointing strips,with edges finished by 19mm painted timber quadrants as per drawing A(50) 4012 Rev A	m2	54		
	<u>9mm "Rhino" gypsum plasterboard with "12mm" cover strips over joints.</u>				
4	Ceilings including 38 x 50mm sawn softwood branderling at 450mm centres.	m2	180		
5	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated frame with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	14		
	<u>Shadowline cornices</u>				
6	Extruded high density purpose made polystyrene shadowline silicon fixed to underside of ceiling and painted to match ceiling as per drawing A (50) 4012 Rev A	m	700		

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CEILINGS AND PARTITIONS

COLLINGWOOD PRIMARY SCHOOL

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CEILINGS AND PARTITIONS

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

6	DKC106601-MK 66mm five pin euro-profiled knob cylinder master keyed	No	4		
7	D038R NP Rebate conversion kit for euro profile locks D038S,D037D	No	4		
8	H076 Heavy duty Stainless Steel Spring Clip	No	4		
9	B2555 W & B Hardware 203mm chain bolt with long chain	No	4		
10	DBC-SS-022 Adjustable roller bolt	No	2		
	<u>HANDLES</u>				
	<u>Dormakaba or similar approved</u>				
11	CB30 CYL S.C Lever handle on plate with cylinder cutout	No	28		
12	DP01CBT 149 x 149mm Straight Stainless Steel Tubular	No	2		
	<u>PULL HANDLES</u>				
	<u>LETTERS, NAMEPLATES, ETC.</u>				
	<u>Dormakaba or similar approved</u>				
13	DSS-145-FHR 150 x 150mm "FIRE HOSE REEL" sign	No	2		
	<u>SUNDRIES</u>				
	<u>Dormakaba or similar approved</u>				
14	Reference 401SC Halcast doorstep and holder plugged	No	4		
15	Reference DDS-SS-017 Floor mounted stainless steel door stop plugged	No	8		
	<u>"M-Trim"</u>				
16	1.6 x 40mm cover strip fixed over expansion joints in floors	m	4		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>"Galvanized mild steel water bar with fishtailed lugs at 600mm centre"</u>				
17	6 x 70mm Water bar set in concrete	No	6		
	<u>SHELVES ETC</u>				
	<u>"Gelman" with standard epoxy powder coated finish</u>				
18	Single slot wall band fixed with Eureka "Easy Fit" wall anchors at 300mm centres	m	194		
19	435mm shelf bracket	No	504		
	<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</u>				
	<u>"Flortime Premier" or other approved pinning board with 9mm plywood backing fixed to brickwork in timber framing (timber framing elsewhere measured)</u>				
20	Pinning boards 1800mm high x 6700mm wide	No	4		
	<u>"Vitrex" or other approved chalkboards fixed to brickwork</u>				
21	Vitrex System 1000 folding type vitreous enamel steel wall mounted school chalk board, 1140 mm high x 3600 mm long, reference (1019), consisting of one fixed centre board size 1140 mm high x 1800 mm long, two fixed side boards each size 1140 mm high x 900 mm long and two swing leaves each size 1140 mm high x 900 mm long. Swing leaves to have white lines spaced at 50 mm centres, reference (1025), permanently screened on to rear face	No	3		
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IRONMONGERY

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Aluminium screen 1.2mm thick powdercoated</u>				
3	Screen size 900mm wide x 3315mm high including steelframe secured to brickwork [Drawing A(50) 2029 Rev A	No	2		
	<u>PRESSED STEEL DOOR FRAMES</u>				
	<u>1.6mm Double rebated steel galvanised frames with one shop coat red oxide primer.</u>				
4	1.6mm thick pressed galvanized mild steel, 813mm x 2720mm single rebated frame, to suit thickness of brickwork, primed with approved red oxide primer and painted to Architect's spec. [D02]	No	1		
5	1.6mm thick pressed galvanized mild steel, 813mm x 2032mm single rebated frame with fanlight, to suit thickness of brickwork, primed with approved red oxide primer and painted to Architect's spec. [D03]	No	1		
6	1.6mm thick pressed galvanized mild steel, single rebated frame, to suit thickness of brickwork, primed with approved red oxide primer and painted to Architect's spec. [D04]	No	2		
7	1.6mm thick pressed galvanized mild steel, 813mm x 2720mm single rebated frame with fanlight, to suit thickness of brickwork, primed with approved red oxide primer and painted to Architect's spec. [D06]	No	8		
	<u>GALVANIZED STEEL WINDOWS, DOORS, ETC</u>				
	<u>Purpose made galvanised steel windows frames with PFX7 sections with 12mm "XPANDA Superguard" or equally approved square solid steel burglar bars consisting of horizontal bars with 12mm supporting vertical members to be powder coated charcoal including coloured flashing surround</u>				
8	Purpose made window 600 x 650mm high (W3)	No	6		
9	Purpose made window 890 x 1785mm high (W7)	No	12		
10	Purpose made window 889 x 650mm high (W8)	No	8		
11	Purpose made window 889 x 650mm high (W9)	No	12		
12	Purpose made window 570 x 1500mm high (W12)	No	2		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

13	Purpose made window 680 x 595mm high (W13)	No	6	
14	Purpose made window 1632 x 1190mm high (W17)	No	6	
<u>ALUMINIUM</u>				
The following specifications are to be complied with:				
Aluminium alloy extrusion: BSS 1474				
Aluminium alloy sheets: SABS 903				
Anodising: SABS 999				
Neoprene perfomed seals and gaskets: SATM C542				
Powder coat finishing: SABS 1274				
DOORS, WINDOWS, ETC to be manufactured by an approved firm of specialists, to be of the best quality and design truly squared and unless otherwise described, prepared to receive glazing beads from the outside. All opening portions must fit perfectly on all faces and be so hung as to open and close freely without binding at any point. Wherever possible , all angles and intersections to be welded by electric welding , argon or arc welding. A sample window is to be submitted to the Representative/Agent for approval before the work is put in hand.				
The frames generally are to be suitable for brickwork, blockwork or concrete reveals.They are to be fitted with fixing lugs of 2,8mm aluminium 13 mm wide x 100mm long welded to framing, one near each corner and intermediately not more than 300mm apart to sides top and bottom. Where concrete reveals , etc., the frames are to be countersunk holed for and fitted with the necessary screws at the centres as for the lugs above.				
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Immediately after the windows , doors, etc., have been delivered on to the site, they are to be thoroughly overhauled and all necessary adjustment or repairs made before they are fixed in position. Where they come into contact with brickwork, blockwork, concrete, steel, etc., the framing is to be treated with bituminous paint in an approved manner. The windows, doors, etc., are to be placed in their positions for building in and adjusted to open and close properly and are to be securely structured to prevent distortion whilst the brickwork and lintols, are being built. On completion of all other work the windows, doors, etc., are to be adjusted as necessary and rendered in a complete and satisfactory state of repair and in working order.

GLAZING GENERAL All rates for doors, windows, shopfronts etc., should include for all glazing as specified.

GLAZING BEADS All door, etc., to be fitted with glazing beads, unless otherwise described, mitred at angles and screwed on.

GLASS AND GLAZING All functional glass must be delivered to site, cut to size and ready for installation and must be classified to indicate grade and thickness. Labels must remain on each piece of glass until it is glazed, inspected and officially accepted in writing by the employer, thereafter an insurance letter will follow absolving the contractor of responsibility.

FACTORY GLAZING All glazing carried out in manufacturer's factory must be in accordance with window fabricated types. Manufacturing of frames must provide for glass, vinyl extrusions cut off sharp at corners; these are to line up with frame/glass rebates.

GLAZING ON SITE This is to be carried out in accordance with glass specification previously referred to. Glazing in windows must be undertaken from outside, with drawn vinyl strips, Neoprene gaskets, and not hardening "Bitumastic" putty, as described.

ADJUSTED LOUVRES to be adjustable, complete with frame, stiles, centrally pivoted double sprung glass holders, weather beads, glass louvres, burglar proofing, etc.

SIZES The sizes given are approximate and are not to be used for ordering purposes, but careful references must be made to the building for exact sizes. Any costs incurred for errors in this respect shall be at the Contractor's expense. All items are unless otherwise described measured net.

BUILDING IN Windows, doors, etc., must be set up and built in complete in position in concrete or brickwork and left completely watertight and prices should include therefor.

ANODISING Anodising of aluminium sections must comply with SABS 399-1947. Anodising must be a minimum of 25 MIKRON

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METALWORK

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PROTECTING Windows, doors, etc., must, wherever practicable, be erected as near to the end of the contract period as possible to minimise the danger of damage of deterioration and all work must be protected by covering up with temporary casings against damage, deterioration or discolouration caused by mortar droppings, varnish, wax, paint, etc., all to the entire satisfaction of the Representative/Agent

IRONMONGERY Windows and doors are to be fitted with the necessary locks, door closers, etc., as described and prices should include therefor

DRAWINGS Tenderers are referred to Architect's drawings at the back of these bills of quantities for tender purposes.

ALUMINIUM WINDOWS, DOORS, ETC

ALUMINIUM SHOPFRONTS

Powder coated aluminium shopfront with polycarbonate multiwall system and louvre panels with 50x150mm mullion sections including 8mm multiwall polycarbonate panels to be in supporting frame complete with with subframes, ironmongery, glass, sealing, etc and fixing to brickwork or concrete.

15	Purpose made shopfront type SF-G01, 14400 x 750mm high overall as per drawing No A(33)5005	No	2
16	Purpose made shopfront type SF-G02, 1155 x 750mm high overall as per drawing No A(33)5005	No	2
17	Purpose made shopfront type SF-G03, 21310 x 750mm high overall as per drawing No A(33)5005	No	1

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METALWORK

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 12</u>			
	<u>STRUCTURAL STEELWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	<u>STEEL COLUMNS AND BEAMS</u>			
	<u>Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete</u>			
1	75 x 75 x 4mm mild steel square hollow sections to columns	t	0.28	
2	150 x 82 x 62mm thick GMS bracket as per drawing (A50) 4012 Rev A	No	68	
3	12 x12 x 10mm thick GMS spacer as per drawing (A50) 4012 Rev A	No	68	
4	10mm thick GMS plate fitted centrally into timber post and bolted through and welded to GMS base plate as per drawing (A50) 4012 Rev A	No	68	
5	100 x 100mm timber post as per drawing A (50) A4012 Rev A	No	68	
6	10mm thick GMS baseplate welded to GMS spacer	No	68	
7	10mm thick GMS baseplate welded to GMS spacer	No	68	
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	STRUCTURAL STEEL			

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

8	200 x 310 x 10mm thick baseplate bolted into reinforced concrete ring beam	No	68
9	Galvanised mild steel angle bracket supporting timber closure fixed either side of rafter as per drawing (A50) 4012 Rev A	No	136
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STRUCTURAL STEEL

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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Item No	Quantity	Rate	Amount
<u>SECTION NO 4</u>			
<u>BILL NO. 14</u>			
<u>TILING</u>			
<u>PREAMBLES</u>			
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions</u>			
Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
<u>WALL TILING</u>			
<u>200 x 200 x 5mm White gloss glazed ceramic tiles on brickwork including cement plaster backing</u>			
1	On walls	m2	68.00
<u>200 x 200 x 5mm Grey gloss glazed ceramic tiles on brickwork including cement plaster backing</u>			
2	On walls	m2	68.00
<u>200 x 200 x 5mm Turquoise gloss glazed ceramic tiles on brickwork including cement plaster backing</u>			
3	On walls	m2	68.00
<u>200 x 200 x 5mm Dark blue gloss glazed ceramic tiles on brickwork including cement plaster backing</u>			
4	On walls	m2	68.00
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MULTI-PURPOSE (BLOCK G)			
Bill No. 14			
TILING			

Copper pipes

Pipes shall be hard drawn and half-hard pipes of the class stated. 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. Only compression fittings shall be used in walls or in ground

Exposed concrete surfaces

Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster

Excavations

No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling "Soft rock" and "hard rock" shall be as defined in "Earthworks"

Laying, backfilling, bedding, etc of pipes

Laying, backfilling, bedding, etc of pipes Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 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 SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding

Flush pans

Flush pans shall have straight or side outlets and "P" or "S" traps as necessary

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Bill No. 15
PLUMBING AND DRAINAGE

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

Stainless steel basins, sinks, wash troughs, urinals, etc

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable

Waste unions

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings

RAINWATER DISPOSAL

3mm Galvanised sheet iron with expanded mesh
aluminium leaf guard

1	650mm girth box gutters with four bends	m	40
2	1200mm girth box gutters with three bends	m	11
3	Extra over for outlet for 70mm outlet pipe	No	6
4	Extra over for stopped end for 650mm girth gutter	No	2
5	Extra over for stopped end for 1200mm girth gutter	No	2
6	Extra over for cross gutter strengthening cleat for 650mm girth gutter	No	3
7	Extra over for cross gutter strengthening cleat for 1200mm girth gutter	No	3
<u>0.8mm Aluminium gutters fixed to purlins at 500mm centres with G4 colourtech internal and externally</u>			
8	150 x 125mm Ogee eaves gutters with a beaded front edge	m	50
9	Extra over 150 x 125mm eaves gutter for 75 x 100mm outlet pipe	No	7
10	Extra over 150 x 125mm eaves gutter for stopped end	No	3
11	Extra over 150 x 125mm eaves gutter for angle	No	15
<u>0.6mm aluminium seamless downpipes coated with Colourtech G4 white all round</u>			
12	70mm diameter pipe fixed to wall	m	21

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PLUMBING AND DRAINAGE

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

13	Extra over 70mm rainwater pipe for bend	No	7
14	Extra over 70mm rainwater pipe for 600mm swan neck	No	5
15	Extra over 70mm rainwater pipe for shoe	No	9
16	70 x 100mm pipe fixed to wall	m	27
17	Extra over 75 x 100mm rainwater pipe for bend	No	7
18	Extra over 75 x 100mm rainwater pipe for 600mm swan neck	No	7
19	Extra over 75 x 100mm rainwater pipe for shoe	No	7
<u>SOIL WASTE AND VENT PIPES</u>			
<u>GEBERIT HDPE or equal approved drainage piping including cutting, pipe preparation, brackets, hangers & butt welding pipes</u>			
20	56mm Diameter pipes	m	16
21	10mm Diameter pipes	m	15
<u>Extra over HDPE pipes for fittings</u>			
22	56mm Bend	No	9
23	56mm ringseal socket	No	3
24	56mm fusion coupling	No	3
25	56mm expansion socket	No	3
26	56 x 40mm sleeve	No	3
27	110mm bend	No	7
28	110mm eccentric reducer	No	1
29	110mm Reducing Y branch	No	2
30	110mm Junction	No	1
31	110mm fusion socket	No	4

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Bill No. 15
PLUMBING AND DRAINAGE

HOT AND COLD WATER SERVICES

Geberit 'Mepla' multi layered mepla pipe including couplers in running lengths, cramping and fixing to holderbats and chasing droppers to brickwork wrapped in kraft paper

32	20mm Diameter pipes	m	47		
33	26mm Diameter pipes	m	21		
	<u>Extra over 'Geberit' Mepla pipe for</u>				
34	20mm Fitting	No	44		
35	26mm Fitting	No	16		

SANITARY FITTINGS

As supplied by Franke

Sinks

36	800x460 polished stainless-steel end bowl drop on sink (Code: Nouveau NVN611)	No	3		
37	15mm chrome plated Star sink mixer (Code: 266/041/10) with aerated swivel spout and concealed connections, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412), installed to manufacturer's recommendations.	No	3		

WASTE UNIONS, TRAPS, ETC.

As supplied by Cobra Watertech

38	Cobra® trap, 40mm Chrome plated deep seal bottle trap with outlet for 50mm PVC, with 300mm long tailpipe with wall flange. Code: 385/35SQ. As per manufactures instruction.	No	3		
39	38mm Chromium plated sink waste Ref. No. 316/40	No	3		

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PLUMBING AND DRAINAGE

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

As supplied by Franke

40 Paper towel dispenser with front cover from High Grade 304 Stainless Steel material available in Satin (Code SS1118) finish. Dimensions: Height (H): 330mm, Width (W): 280mm, Depth (D): 220mm

No

3

41 38l stainless steel (Grade 304, satin finish), wallhung bin with plastic in lining. Overall size 385H x 340Wx 290D. Code: SD1136.

No

2

Geysers

42 10 liter under counter water heater with 22mm connection and fitted with electric element, pressure gauge, safety valve, pressure relief valve, 20mm air relief valve/vacuum breaker, including all joints to copper pipes and fixing into position and connection up. Code: PRX-10-UB

No

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TESTING

Testing of the following installations

43 Waste and ventilation installation

Item

44 Hot and cold water installation

Item

45 Allow for flushing out and super-chlorinating the whole of the water supply installation

Item

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NEW BUILDINGS AND ANCILLARY SITE WORKS

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PLUMBING AND DRAINAGE

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PLUMBING AND DRAINAGE

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

3	On internal ceilings and cornices	m2	180
<u>PAINT ON METAL</u>			
<u>Prepare, touch up primer and apply one coat "Dulux" steel primer one coat "Dulux" universal undercoat and three coats "Dulux Dura 100" high gloss enamel paint</u>			
4	On pressed steel door frames	m2	30
<u>Prepare, touch up primer and apply one coat "Dulux Duraphos" one coat "Dulux" universal undercoat and two coats "Dulux Dura 100" high gloss enamel paint</u>			
5	On steel windows with burglar bars (both sides measured)	m2	220
6	On gates, grilles, louvres, balustrading etc (both sides measured)	m2	40
<u>PAINT ON WOOD</u>			
<u>Prepare and apply one coat "Dulux" wood primer two coats "Dulux" universal undercoat and three coats "Dulux" eggshell enamel paint</u>			
7	On doors	m2	120
<u>Prepare and apply one coat sanding sealer and two coats clear polyurethane varnish</u>			
8	On open slatted shelves, seats, etc of 25 x 75mm slats at 95mm centres (both sides measured over the full flat area)	m2	100
9	On skirtings, borders etc.	m	230

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PAINTWORK

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MULTI-PURPOSE (BLOCK G)
Bill No. 17
PAINTWORK

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

[illegible]

Item No	Quantity	Rate	Amount
<u>SECTION NO 5</u>			
<u>BILL NO. 1</u>			
<u>EARTHWORKS</u>			
<u>PREAMBLES</u>			
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>NATURE OF GROUND</u>			
A soil investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed include all ground conditions classifiable as "earth" described in the above report and/or filling compacted up to 95% modified AASHTO density, but possibly interspersed with "hard rock" or "soft rock".			
Descriptions of excavations shall be deemed to include for setting aside surplus excavated material in spoil heaps for use as filling or for depositing within 150m of the perimeter of the excavations and spreading and roughly levelling as directed, as well as for increase in bulk and multiple handling of excavated material caused by the contractor's method of operation.			
<u>SUBTERRANEAN WATER</u>			
No information on subterranean water is available. The tenderer must acquaint himself of the presence and depth of subterranean water and allow therefor in his prices			
<u>CARTING AWAY OF EXCAVATED MATERIAL</u>			
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site and for bulking.			
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Section No. 5 EXTERNAL BUILDINGS (TUCKSHOP&KITCHEN) Bill No. 1 EARTHWORKS			

WORKING SPACE

Working space for formwork to sides of all concrete, except columns, shall be measured only where the concrete face is less than 750mm from the face from the measured excavations

Working space for formwork to sides of columns shall be measured for the width of the column face only where both:

(a) The top of the column base is more than 1,5m below the commencing level of the excavations and

(b) The column face is less than 500mm from the face of the measured excavation

No claim shall be considered for any working space for formwork to concrete other than as above described or for working space beyond the sides of trench excavations for the building of brick or block walls.

Descriptions of excavations for working space shall be deemed to include for any additional risk of collapse so incurred and for the returning and compacting of the excavated material as described.

SOIL POISONING

The contractor will be required to provide a guarantee from a registered (member of SAPCA) soil poisoning company for the soil insecticide and weed killing applications

REMOVAL OF EXISTING WORK:

NATURE OF WORK Tenderers are advised to visit the site and to satisfy themselves as to the nature and extent of the work to be done and provide in their tenders for any items not specifically mentioned which they may deem necessary for the proper completion of the work. Tenderers are advised that the existing building will be in occupation during the progress of the work and due allowance must be made for the work being carried out at such times and in such manner as will least interfere with the routine of the occupants and as may be directed by the Quantity Surveyor.

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Section No. 5
EXTERNAL BUILDINGS (TUCKSHOP&KITCHEN)
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EARTHWORKS

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DIMENSIONS The Contractor is advised to take all dimensions affecting the existing buildings on the site, as he will be held solely responsible for all new work being of the correct sizes.

PIPES, ETC. Special care is to be taken not to interfere unnecessarily with any water supply pipes or other piping that may be met with and found necessary to disconnect or cut, are to be effectively stopped off and any new connections that may be necessary are to be made with proper fittings and to the satisfaction of the Quantity Surveyor to whom due notice must be given of any alterations to the existing services.

PROTECTION In taking down and removing existing work the utmost care is to be observed to avoid any structural or other damage to the remaining portions of the buildings. The Contractor must also protect all work not removed such as walls, floors, doors, windows or other joinery, loose and fixed fittings and electrical appliances, etc., from damage during the progress of the work and provide all necessary materials for so doing. The Contractor will be held solely responsible for any damage to persons or property and for the safety of the structure throughout the whole of this Contract and must make good at his own expense any damage that may occur.

CREDITS, ETC. Old materials from the pulling down (except such as are described to be re-used or handed over) are to become the property of the Contractor who shall allow credit as provided for in the summary at the end of these Bills of Quantities. Old materials for re-use are to be carefully removed, stored and protected from injury including making good any damaged or defective parts as required before refixing. Old materials described to be handed over are to be carefully removed and neatly stacked on site where directed. The remainder of the old materials and all rubbish to be immediately carted away and the site left clean and unencumbered. None of the old stock bricks from the pulling down are to be re-used for any new work.

EXCAVATIONS

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Section No. 5
EXTERNAL BUILDINGS (TUCKSHOP&KITCHEN)
Bill No. 1
EARTHWORKS

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

[illegible]

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Compaction of surfaces</u>				
10	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	140		
	<u>Prescribed density tests on filling</u>				
11	"Modified AASHTO Density" tests	No	2		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide in accordance with SANS 5859</u>				
12	Soil insecticide applied and mixed in the proportion and rate as specified to bottoms and sides of trenches, holes etc	m2	140		
	<u>Approved weedkiller mixed and applied strictly in accordance with the manufacturer's instructions</u>				
13	Under paving, etc	m2	140		
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COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS

Section No. 5

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EARTHWORKS

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Section No. 5

EXTERNAL BUILDINGS (TUCKSHOP&KITCHEN)

Bill No. 1

EARTHWORKS

Formwork

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 re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.

Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"

CONCRETE

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

15MPa/20mm concrete

1	Surface blinding under footings and bases	m3	7	
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REINFORCED CONCRETE

30Mpa/19mm concrete

2	Strip footings	m3	16	
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REINFORCED CONCRETE CAST ON/IN FORMWORK

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Section No. 5
EXTERNAL BUILDINGS (TUCKSHOP&KITCHEN)
Bill No. 2
CONCRETE, FORMWORK AND REINFORCEMENT

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>30Mpa/19mm concrete</u>				
3	Filling 50mm cavity walls reinforced with fabric or steel bars (fabric reinforcement and steel bars elsewhere measured)	m3	1		
4	Surface beds on waterproofing	m3	18		
5	Slabs including beams and inverted beams	m3	39		
6	Walls	m3	1		
	<u>CONCRETE TEST CUBES</u>				
7	Prepare set of three 150 x 150 x 150mm concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional)	No	2		
	<u>SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a power float</u>				
8	Surface beds, slabs, etc	m2	280		
	<u>FORMWORK</u>				
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>				
	<u>Smooth formwork to sides</u>				
9	Upstand beams	m2	30		
	<u>Smooth formwork to sides and soffits</u>				
10	Slabs and beams	m2	140		
	<u>MOVEMENT JOINTS</u>				
	<u>Malthoid slip joints between horizontal concrete and brick surfaces including cement mortar bed</u>				
11	Not exceeding 300mm wide	m	60		
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	Section No. 5 EXTERNAL BUILDINGS (TUCKSHOP&KITCHEN) Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT				

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Expansion joints with 12mm softboard between vertical concrete and brick surfaces</u>		
12	12mm Joints not exceeding 300mm high	m	60
	<u>Saw cut joints</u>		
13	6 x 25 mm Saw cut joint in top of concrete	m	60
	<u>REINFORCEMENT</u>		
	<u>Mild steel reinforcement to structural concrete work</u>		
14	16mm Diameter bars	t	0.20
15	12mm Diameter bars	t	0.20
16	10mm Diameter bars	t	0.20
17	8mm Diameter bars	t	0.20
	<u>High tensile steel reinforcement to structural concrete work</u>		
18	16mm Diameter bars	t	0.20
19	12mm Diameter bars	t	3.00
20	10mm Diameter bars	t	0.80
	<u>Fabric reinforcement</u>		
21	Type 311 fabric reinforcement in concrete surface beds etc	m2	140

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EXTERNAL BUILDINGS (TUCKSHOP&KITCHEN)
Bill No. 2
CONCRETE, FORMWORK AND REINFORCEMENT

COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS

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Bill No. 2

CONCRETE, FORMWORK AND REINFORCEMENT

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EXTERNAL BUILDINGS (TUCKSHOP&KITCHEN)

Bill No. 2

CONCRETE, FORMWORK AND REINFORCEMENT

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

FOUNDATIONS

Loadbearing brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar

1	270mm hollow walls of two half brick skins including wire ties	m2	30
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SUPERSTRUCTURE

Brickwork of NFP bricks in class II mortar

2	Half brick walls	m2	64
3	One brick walls	m2	9
4	330mm Hollow walls of two half brick skins including wire ties	m2	250
5	270mm Hollow walls of two half brick skins including wire ties	m2	101

SUNDRIES

6	Closing 50mm cavity of 270mm hollow wall vertically with one course of brickwork at jambs	m	54
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Brick reinforcement

7	Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	188
8	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	1 058

Prestressed concrete lintels including temporary supports

9	145 x 75mm Lintels in lengths not exceeding 1.5m	m	20
10	145 x 75mm Lintels in lengths exceeding 1,5m not exceeding 3.0m	m	20

Turning piece

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Section No. 5
EXTERNAL BUILDINGS (TUCKSHOP&KITCHEN)
Bill No. 4
MASONRY

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS

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Bill No. 4

MASONRY

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Section No. 5

EXTERNAL BUILDINGS (TUCKSHOP&KITCHEN)

Bill No. 4

MASONRY

Descriptions

The term "planted on" shall mean the nailing of one timber member to another. The term "screwed on" shall mean the countersunk screwing of one timber member to another. The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screws sunk and pelleted. The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete. The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screws sunk and pelleted. The term "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete

Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting. Descriptions of items given in lineal metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc. Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.

TIMBER DOORS

Single framed and ledged door 44mm Thick 813 x 2032mm thick framed and ledged door with 114mm wide stiles and head rails, 228x20mm centre and bottom rails and 114x20mm thick braces. The edges of stiles and top rails to be rebated and grooved for and filled in with 22mm thick tongue and grooved and v-jointed boarding, twice countersunk screwed to each ledge from inside. The inner edges of stiles and top rail to be rebated for on inside and filled with 6mm thick plywood panel faced with veneer to match, glued and pinned

1	D03	No	5
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Heavy duty solid core door flush panel 813 x 2032mm with hardwood edge for exterior use with top light

2	D08	No	3
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FRAMES ETC

FRAMED FRAMES, MULLIONS, TRANSOMS, ETC

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Section No. 5
EXTERNAL BUILDINGS (TUCKSHOP&KITCHEN)
Bill No. 6
CARPENTRY AND JOINERY

	<u>Hardwood</u>				
3	Hardwood single door frame with 86 x 68mm sections and no sill. Back of frame to receive 2x coats waterproofing primer.[D13]	m	1		
	FITTINGS				
	<u>General</u>				
	The following cupboard fittings have been measured as complete units i.e. the components of the units have not such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips,decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc				
	<u>Where described as secret fixed timber fittings shall be fixed with 10 x 40mm fluteded beechwood dowels</u>				
	<u>User note: The references given in the descriptions are to the respective types of fittings detailed on the architect's drawings numbered A(74) 6001 accompanying these bills of quantities for tender purposes Kitchen and wall cupboards etc to classrooms (drawing A(74)6001)</u>				
	<u>Cupboards</u>				
	<u>Kitchen cupboards etc</u>				
4	Sink floor cupboard 1100mm long x 600mm wide x 700mm high with top (granite worktop and sink measured elsewhere), sides, bottom, division, shelves, back and one double door	No	1		
5	Floor cupboard 3385mm long x 625mm wide x 900mm high with 32mm wrot saligna worktop, sides, bottom, and two divisions all framed up with necessary softwoof framing	No	1		
6	High level wall cupboard unit 3385mm wide x 500mm deep x 400mm high with 16mm Melamine faced both sides top,ends, bottom and two divisions.	No	1		
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COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS

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CARPENTRY AND JOINERY

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<u>SECTION NO 5</u>				
<u>BILL NO. 7</u>				
<u>FLOOR COVERINGS, WALL LININGS, ETC.</u>				
<u>PREAMBLES</u>				
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"				
NOTE : All materials shall be in colours to be selected by the Representative/Agent and, where applicable, laid to approved patterns				
<u>FLOOR COVERINGS</u>				
<u>2mm "Polyflor" Classic Mystique PUR fully flexible heavy duty vinyl sheeting with welded joints (Colour Quartz) F2</u>				
1	On screeded floors	m2	46.00	
<u>2mm "Polyflor" Classic Mystique PUR fully flexible heavy duty vinyl sheeting with welded joints (Colour Nocturne) - borders</u>				
2	On screeded floors	m2	2.00	
<u>SKIRTINGS, NOSINGS, ETC</u>				
3	19 x 69mm Meranti timber	m	51.00	
4	Genesis fast fit ramp transition code TCR405 complete with accessories and fittings	m	7.00	
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Section No. 5 EXTERNAL BUILDINGS (TUCKSHOP&KITCHEN) Bill No. 7 FLOOR COVERINGS, WALL LININGS, ETC				

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

Item No		Quantity	Rate	Amount
	<u>SECTION NO 5</u>			
	<u>BILL NO. 8</u>			
	<u>IRONMONGERY</u>			
	<u>PREAMBLES</u>			
	For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Finishes to ironmongery</u>			
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded			
	<u>LOCKS</u>			
	<u>Dormakaba or similar approved</u>			
1	D036S-SS Cylinder Sash lock case dimensions 116.5mm x 78mm with forend dimensions 168mm x 22w ,backset 57mm and 61mm centres	No	1	
2	D037D-SS Cylinder Deadlock case dimensions 116.5mm x 78mm with forend dimensions 168mm x 22w and 57mm backset	No	1	
3	1450 ISEO single long throw 2 pin profile cylinder gate lock	No	1	
4	DDC106601-MK 66mm five pin euro-profiled double cylinder master keyed	No	1	
5	DSC104301-MK 43mm five pin euro-profiled single cylinder master keyed	No	1	
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	Section No. 5			
	EXTERNAL BUILDINGS (TUCKSHOP&KITCHEN)			
	Bill No. 8			
	IRONMONGERY			

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

6	D038R NP Rebate conversion kit for euro profile locks D038S,D037D	No	1	
7	DCE-002 S.S Round cylinder escutcheon	No	1	
8	H076 Heavy duty Stainless Steel Spring Clip	No	1	
9	DFB-SC-180 153mm Manual flush bolt with heel	No	1	
10	DBC-SS-022 Adjustable roller bolt	No	1	
<u>HANDLES</u>				
<u>Dormakaba or similar approved</u>				
11	CB30 CYL S.C Lever handle on plate with cylinder cutout	No	1	
12	DP01CBT 149 x 149mm Straight Stainless Steel Tubular	No	1	
<u>PULL HANDLES</u>				
<u>PUSH PLATES AND KICKING PLATES</u>				
<u>Dormakaba or similar approved</u>				
13	Reference DKP-304-SF200 200mm x 1,2mm thick grade 304 brushed stainless steel kicking plates with 10 countersunk holes for screw fixing	No	1	
<u>LETTERS, NAMEPLATES, ETC.</u>				
<u>Dormakaba or similar approved</u>				
14	DSS-145-FHR 150 x 150mm "FIRE HOSE REEL" sign	No	1	
<u>SUNDRIES</u>				
<u>Dormakaba or similar approved</u>				
15	Reference 401SC Halcast doorstop and holder plugged	No	1	
16	Reference DDS-SS-017 Floor mounted stainless steel door stop plugged	No	1	
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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NEW BUILDINGS AND ANCILLARY SITE WORKS

Section No. 5

Bill No. 8

IRONMONGERY

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EXTERNAL BUILDINGS (TUCKSHOP&KITCHEN)
Bill No. 8
IRONMONGERY

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	1000 x 2125mm high g alvanised mild steel fully louvred double door				
4	D13	No	1		
	<u>GALVANIZED STEEL WINDOWS, DOORS, ETC</u>				
	<u>Purpose made galvanised steel windows frames with PFX7 sections with 12mm "XPANDA Superguard" or equally approved square solid steel burglar bars consisting of horizontal bars with 12mm supporting vertical members to be powder coated charcoal including coloured flashing surround</u>				
5	Purpose made window 889 x 650mm high (W9)	No	3		
	<u>ALUMINIUM</u>				
	The following specifications are to be complied with:				
	Aluminium alloy extrusion: BSS 1474				
	Aluminium alloy sheets: SABS 903				
	Anodising: SABS 999				
	Neoprene perfomed seals and gaskets: SATM C542				
	Powder coat finishing: SABS 1274				
	DOORS, WINDOWS, ETC to be manufactured by an approved firm of specialists, to be of the best quality and design truly squared and unless otherwise described, prepared to receive glazing beads from the outside. All opening portions must fit perfectly on all faces and be so hung as to open and close freely without binding at any point. Wherever possible , all angles and intersections to be welded by electric welding , argon or arc welding. A sample window is to be submitted to the Representative/Agent for approval before the work is put in hand.				
	The frames generally are to be suitable for brickwork, blockwork or concrete reveals.They are to be fitted with fixing lugs of 2,8mm aluminium 13 mm wide x 100mm long welded to framing, one near each corner and intermediately not more than 300mm apart to sides top and bottom. Where concrete reveals , etc., the frames are to be countersunk holed for and fitted with the necessary screws at the centres as for the lugs above.				
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	EXTERNAL BUILDINGS (TUCKSHOP&KITCHEN)				
	Bill No. 10				
	METALWORK				

Immediately after the windows , doors, etc., have been delivered on to the site, they are to be thoroughly overhauled and all necessary adjustment or repairs made before they are fixed in position. Where they come into contact with brickwork, blockwork, concrete, steel, etc., the framing is to be treated with bituminous paint in an approved manner. The windows, doors, etc., are to be placed in their positions for building in and adjusted to open and close properly and are to be securely structured to prevent distortion whilst the brickwork and lintols, are being built. On completion of all other work the windows, doors, etc., are to be adjusted as necessary and rendered in a complete and satisfactory state of repair and in working order.

GLAZING GENERAL All rates for doors, windows, shopfronts etc., should include for all glazing as specified.

GLAZING BEADS All door, etc., to be fitted with glazing beads, unless otherwise described, mitred at angles and screwed on.

GLASS AND GLAZING All functional glass must be delivered to site, cut to size and ready for installation and must be classified to indicate grade and thickness. Labels must remain on each piece of glass until it is glazed, inspected and officially accepted in writing by the employer, thereafter an insurance letter will follow absolving the contractor of responsibility.

FACTORY GLAZING All glazing carried out in manufacturer's factory must be in accordance with window fabricated types. Manufacturing of frames must provide for glass, vinyl extrusions cut off sharp at corners; these are to line up with frame/glass rebates.

GLAZING ON SITE This is to be carried out in accordance with glass specification previously referred to. Glazing in windows must be undertaken from outside, with drawn vinyl strips, Neoprene gaskets, and not hardening "Bitumastic" putty, as described.

ADJUSTED LOUVRES to be adjustable, complete with frame, stiles, centrally pivotted double sprung glass holders, weather beads, glass louvres, burglar proofing, etc.

SIZES The sizes given are approximate and are not to be used for ordering purposes, but careful references must be made to the building for exact sizes. Any costs incurred for errors in this respect shall be at the Contractor's expense. All items are unless otherwise described measured net.

BUILDING IN Windows, doors, etc., must be set up and built in complete in position in concrete or brickwork and left completely watertight and prices should include therefor.

ANODISING Anodising of aluminium sections must comply with SABS 399-1947. Anodising must be a minimum of 25 MIKRON

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EXTERNAL BUILDINGS (TUCKSHOP & KITCHEN)
Bill No. 10
METALWORK

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PROTECTING Windows, doors, etc., must, wherever practicable, be erected as near to the end of the contract period as possible to minimise the danger of damage of deterioration and all work must be protected by covering up with temporary casings against damage, deterioration or discolouration caused by mortar droppings, varnish, wax, paint, etc., all to the entire satisfaction of the Representative/Agent

IRONMONGERY Windows and doors are to be fitted with the necessary locks, door closers, etc., as described and prices should include therefor

DRAWINGS Tenderers are referred to Architect's drawings at the back of these bills of quantities for tender purposes.

STEEL ROLLER SHUTTERS, ETC

Galvanised steel powder coated roller shutters with 76mm slats (18kg/m²), fixed to brickwork or concrete

6	Roll-Up Serranda Series 1500 powder coated push-up 75 x 0,8mm thick endlocked slatted curtain roller shutter for opening 1500 x 1245mm high with overhead box 335mm high including canopy cover, standard bottom rail, 75mm wide guides, extruded aluminium T-bar with rubber seal, powder coated ancillary components including 4,5mm thick end plates, guide rails, guide lock, fixed to brick jambs and concrete lintel.(R01)	No	2
7	Roll-Up Serranda Series 1500 powder coated push-up 75 x 0,8mm thick endlocked slatted curtain roller shutter for opening 2435 x 2125mm high with overhead box 335mm high including canopy cover, standard bottom rail, 75mm wide guides, extruded aluminium T-b (RD02)	No	1

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EXTERNAL BUILDINGS (TUCKSHOP&KITCHEN)
Bill No. 10
METALWORK

COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS

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Bill No. 10

METALWORK

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EXTERNAL BUILDINGS (TUCKSHOP&KITCHEN)

Bill No. 10

METALWORK

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<u>BILL NO. 11</u>			
<u>PLASTERING</u>			
<u>PREAMBLES</u>			
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"			
<u>SCREEDS</u>			
<u>Cement plaster screeds steel trowelled on concrete</u>			
1	25mm Thick on floors and landings	m2	48
<u>INTERNAL PLASTER</u>			
<u>Cement plaster on brickwork</u>			
2	On walls	m2	247
<u>Cement plaster rendering coat with gypsum skim plaster finishing coat, on concrete</u>			
3	On ceilings	m2	139
<u>SPECIALIST FLOOR COVERINGS</u>			
<u>Clean floor surface free from dust , grease, spills etc. ready to receive Stonclad UL all in accordance with manufacturers specifications</u>			
4	3-4mm impact and self levelling polyurethane urea cement floor screed to screeded concrete floors	m2	46.00
5	Polyurethane non-slip to screeded concrete floors according to manufacturers instructions	m2	46.00
<u>Sundries on Stoneclad floor finish</u>			
6	3 x 6mm saw cut joint pointed with Prostruct joint sealer	m	3.00
Carried Forward to Summary of Section			R
Section No. 5 EXTERNAL BUILDINGS (TUCKSHOP&KITCHEN) Bill No. 11 PLASTERING			

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

[illegible]

Item No	Quantity	Rate	Amount
<u>SECTION NO 5</u>			
<u>BILL NO. 14</u>			
<u>PAINTWORK</u>			
<u>PREAMBLES</u>			
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"			
<u>PREPARATORY WORK TO EXISTING WORK</u>			
<u>Previously painted plastered surfaces</u>			
Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth			
<u>Previously painted metal surfaces</u>			
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal			
<u>Previously painted wood surfaces</u>			
Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth			
<u>PAINTWORK ETC TO NEW WORK</u>			
<u>PAINT ON PLASTER, ETC</u>			
<u>Prepare and apply one coat "Plascon Professional Gypsum and Plaster Primer" and two coats "Plascon Professional Superior Satin PVA " paint</u>			
1	On internal walls	m2	247
2	On internal concrete ceilings	m2	140
Carried Forward to Summary of Section			R
Section No. 5 EXTERNAL BUILDINGS (TUCKSHOP&KITCHEN) Bill No. 14 PAINTWORK			

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

Bill No	SECTION SUMMARY - EXTERNAL BUILDINGS (TUCKSHOP&KITCHEN)	Page No	Amount
1	EARTHWORKS	247	
2	CONCRETE, FORMWORK AND REINFORCEMENT	252	
3	PRECAST CONCRETE	253	
4	MASONRY	257	
5	WATERPROOFING	258	
6	CARPENTRY AND JOINERY	262	
7	FLOOR COVERINGS, WALL LININGS, ETC	263	
8	IRONMONGERY	267	
9	STRUCTURAL STEEL	268	
10	METALWORK	273	
11	PLASTERING	274	
12	TILING	275	
13	GLAZING	276	
14	PAINTWORK	277	
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Section No. 5 EXTERNAL BUILDINGS (TUCKSHOP&KITCHEN)			

Item No	Quantity	Rate	Amount
<u>SECTION NO 6</u>			
<u>BILL NO. 1</u>			
<u>EARTHWORKS</u>			
<u>PREAMBLES</u>			
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>NATURE OF GROUND</u>			
A soil investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed include all ground conditions classifiable as "earth" described in the above report and/or filling compacted up to 95% modified AASHTO density, but possibly interspersed with "hard rock" or "soft rock". Descriptions of excavations shall be deemed to include for setting aside surplus excavated material in spoil heaps for use as filling or for depositing within 150m of the perimeter of the excavations and spreading and roughly levelling as directed, as well as for increase in bulk and multiple handling of excavated material caused by the contractor's method of operation.			
<u>SUBTERRANEAN WATER</u>			
No information on subterranean water is available. The tenderer must acquaint himself of the presence and depth of subterranean water and allow therefor in his prices			
<u>CARTING AWAY OF EXCAVATED MATERIAL</u>			
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site and for bulking.			
Carried to Collection			R
Section No. 6 EXTERNAL BUILDINGS (GUARDHOUSE & REFUSE) Bill No. 1 EARTHWORKS			

WORKING SPACE

Working space for formwork to sides of all concrete, except columns, shall be measured only where the concrete face is less than 750mm from the face from the measured excavations

Working space for formwork to sides of columns shall be measured for the width of the column face only where both:

(a) The top of the column base is more than 1,5m below the commencing level of the excavations and

(b) The column face is less than 500mm from the face of the measured excavation

No claim shall be considered for any working space for formwork to concrete other than as above described or for working space beyond the sides of trench excavations for the building of brick or block walls.

Descriptions of excavations for working space shall be deemed to include for any additional risk of collapse so incurred and for the returning and compacting of the excavated material as described.

SOIL POISONING

The contractor will be required to provide a guarantee from a registered (member of SAPCA) soil poisoning company for the soil insecticide and weed killing applications

REMOVAL OF EXISTING WORK:

NATURE OF WORK Tenderers are advised to visit the site and to satisfy themselves as to the nature and extent of the work to be done and provide in their tenders for any items not specifically mentioned which they may deem necessary for the proper completion of the work. Tenderers are advised that the existing building will be in occupation during the progress of the work and due allowance must be made for the work being carried out at such times and in such manner as will least interfere with the routine of the occupants and as may be directed by the Quantity Surveyor.

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Section No. 6
EXTERNAL BUILDINGS (GUARDHOUSE & REFUSE)
Bill No. 1
EARTHWORKS

R

DIMENSIONS The Contractor is advised to take all dimensions affecting the existing buildings on the site, as he will be held solely responsible for all new work being of the correct sizes.

PIPES, ETC. Special care is to be taken not to interfere unnecessarily with any water supply pipes or other piping that may be met with and found necessary to disconnect or cut, are to be effectively stopped off and any new connections that may be necessary are to be made with proper fittings and to the satisfaction of the Quantity Surveyor to whom due notice must be given of any alterations to the existing services.

PROTECTION In taking down and removing existing work the utmost care is to be observed to avoid any structural or other damage to the remaining portions of the buildings. The Contractor must also protect all work not removed such as walls, floors, doors, windows or other joinery, loose and fixed fittings and electrical appliances, etc., from damage during the progress of the work and provide all necessary materials for so doing. The Contractor will be held solely responsible for any damage to persons or property and for the safety of the structure throughout the whole of this Contract and must make good at his own expense any damage that may occur.

CREDITS, ETC. Old materials from the pulling down (except such as are described to be re-used or handed over) are to become the property of the Contractor who shall allow credit as provided for in the summary at the end of these Bills of Quantities. Old materials for re-use are to be carefully removed, stored and protected from injury including making good any damaged or defective parts as required before refixing. Old materials described to be handed over are to be carefully removed and neatly stacked on site where directed. The remainder of the old materials and all rubbish to be immediately carted away and the site left clean and unencumbered. None of the old stock bricks from the pulling down are to be re-used for any new work.

EXCAVATIONS

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Section No. 6
EXTERNAL BUILDINGS (GUARDHOUSE & REFUSE)
Bill No. 1
EARTHWORKS

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Excavate in earth not exceeding 2m deep</u>				
1	Trenches	m3	80		
	<u>Extra over trench and hole excavations in earth for excavations in</u>				
2	Soft rock	m3	2		
3	Hard rock	m3	2		
	<u>Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to ?% Mod AASHTO density</u>				
4	Exceeding 1m and not exceeding 2m deep for placing and removing formwork to walls etc, 500mm away from excavated face	m2	138		
	<u>Extra over all excavations for carting away</u>				
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	80		
	<u>Risk of collapse of excavations</u>				
6	Risk of collapse of sides of excavations for trenches and holes from natural, elevated or reduced ground level to not exceeding 1,5m deep	m2	140		
	<u>Keeping excavations free of water</u>				
7	Allow for keeping all excavations entirely free from water and mud		Item		
	FILLING				
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93 % Mod AASHTO density</u>				
8	Backfilling to trenches, holes, etc	m3	11		
	<u>Filling of gravel-soil material G7 supplied by the contractor, compacted to 97% Mod AASHTO density</u>				
9	Under floors, steps, paving etc.	m3	7		
10	Backfilling to trenches, holes, etc	m3	56		
	Carried to Collection			R	
	Section No. 6 EXTERNAL BUILDINGS (GUARDHOUSE & REFUSE) Bill No. 1 EARTHWORKS				

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS

Section No. 6

Bill No. 1

EARTHWORKS

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Section No. 6
EXTERNAL BUILDINGS (GUARDHOUSE & REFUSE)
Bill No. 1
EARTHWORKS

Formwork

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 re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.

Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"

CONCRETE

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

15MPa/19mm concrete

1	Surface blinding under footings and bases	m3	3	
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REINFORCED CONCRETE

REINFORCED CONCRETE CAST ON/IN FORMWORK

30Mpa/19mm concrete

2	Strip footings	m3	16	
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3	Filling 50mm cavity walls reinforced with fabric or steel bars (fabric reinforcement and steel bars elsewhere measured)	m3	1	
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Bill No. 2
CONCRETE, FORMWORK AND REINFORCEMENT

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

4	Surface beds on waterproofing	m3	7		
	<u>CONCRETE TEST CUBES</u>				
5	Prepare set of three 150 x 150 x 150mm concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional)	No	4		
	<u>SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a power float</u>				
6	Surface beds, slabs, etc	m2	59		
	<u>MOVEMENT JOINTS</u>				
	<u>Malthoid slip joints between horizontal concrete and brick surfaces including cement mortar bed</u>				
7	Not exceeding 300mm wide	m	8		
	<u>REINFORCEMENT</u>				
	<u>Mild steel reinforcement to structural concrete work</u>				
8	16mm Diameter bars	t	1.28		
	<u>Fabric reinforcement</u>				
9	Type 311 fabric reinforcement in concrete surface beds etc	m2	59		
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NEW BUILDINGS AND ANCILLARY SITE WORKS

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Bill No. 2

CONCRETE, FORMWORK AND REINFORCEMENT

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EXTERNAL BUILDINGS (GUARDHOUSE & REFUSE)

Bill No. 2

CONCRETE, FORMWORK AND REINFORCEMENT

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

FOUNDATIONS

Loadbearing brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar

1	270mm hollow walls of two half brick skins including wire ties	m2	22
2	340mm hollow walls of two half brick skins including wire ties	m2	10

SUPERSTRUCTURE

Brickwork of NFP bricks in class II mortar

3	Mass brickwork	m3	2
4	Half brick walls	m2	5
5	270mm Hollow walls of two half brick skins including wire ties	m2	119
6	340mm Hollow walls of two half brick skins including wire ties	m2	9

SUNDRIES

7	Closing 50mm cavity of 270mm hollow wall horizontally with one course of brickwork at top	m	44
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Brick reinforcement

8	Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	18
9	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	357

Prestressed concrete lintels including temporary supports

10	145 x 75mm Lintels in lengths not exceeding 1.5m	m	8
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Section No. 6
EXTERNAL BUILDINGS (GUARDHOUSE & REFUSE)
Bill No. 4
MASONRY

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

11	145 x 75mm Lintels in lengths exceeding 1,5m not exceeding 3.0m	m	4		
	<u>Galvanised hoop iron cramp ties etc.</u>				
12	30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end built into brickwork	No	32		
	<u>FACE BRICKWORK</u>				
	<u>"Corobrick Firelight Satin" or equal approved face bricks pointed with recessed horizontal and vertical joints</u>				
13	Extra over brickwork for face brickwork	m2	138		
14	Extra over brickwork for brick-on-edge header course sloping sill 400mm girth pointed on face and bottom edge and including cement backing all fair cutting and special squint brick on bottom edge	m	3		
	<u>Paving of "Corobrick Firelight Satin face " paving bricks on 25mm cement sand screed bedded and jointed in cement mortar and pointed with hollowed joints</u>				
15	Paving in stretcher bond on 25mm thick mortar bed	m2	9		
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COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS

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MASONRY

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<u>SECTION NO 6</u>				
<u>BILL NO. 6</u>				
<u>ROOF COVERINGS, ETC</u>				
<u>PREAMBLES</u>				
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<u>0.8mm "Safintra Newlok" aluminium roof sheeting with a COLORPLUS (Colour: Sea Spray Matt) coated finish to one side with a Cool Grey backing coat and accessories fixed to SA pine purlins supported on laminated SA pine rafter at centres as specified with timber bracing strut all to Structural Engineer details including all necessary flashing and cover trims matching the finish of the main roof, to be installed in accordance with manufactures details and specifications.</u>				
1	Roof covering with a pitch not exceeding 25 degrees	m2	49	
2	275mm girth fascia flashing	m	13	
<u>ROOF AND WALL INSULATION</u>				
<u>Isoboard high density rigid extruded polystyrene 100% closed cell insulation boards, with tongued & groove joints fixed concurrent with roof covering</u>				
3	<u>50mm Thick roof insulation with tongue and groove joints fixed between rafters at 1000mm centres to timber bandering (measured elsewhere)</u>	m2	36	
<u>420mm Heavy industrial grade aluminium foil based insulation</u>				
4	Insulation laid taut over purlins (at approximately 750mm centres) and fixed concurrent with roof covering	m2	36	
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Section No. 6 EXTERNAL BUILDINGS (GUARDHOUSE & REFUSE) Bill No. 6 ROOF COVERINGS, ETC				

Descriptions

The term "planted on" shall mean the nailing of one timber member to another. The term "screwed on" shall mean the countersunk screwing of one timber member to another. The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screws sunk and pelleted. The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete. The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screws sunk and pelleted. The term "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete

Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting. Descriptions of items given in lineal metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc. Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.

ROOFS, ETC

Prefabricated roof trusses

ROOFS ETC

Sawn softwood

1	50 x 75mm Purlins	m	48
2	38 x 100mm Bracing	m	48
<u>Shutterboard plywood</u>			
3	18mm Eaves closure	m2	34
<u>Wrot Laminated Pine</u>			
4	70 x 333mm Rafter	m	46

EAVES, VERGES, ETC

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Section No. 6
EXTERNAL BUILDINGS (GUARDHOUSE & REFUSE)
Bill No. 7
CARPENTRY AND JOINERY

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

[illegible]

General

The following cupboard fittings have been measured as complete units i.e. the components of the units have not such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc

Where described as secret fixed timber fittings shall be fixed with 10 x 40mm fluted beechwood dowels

User note: The references given in the descriptions are to the respective types of fittings detailed on the architect's drawings numbered A(74) 6001 accompanying these bills of quantities for tender purposes Kitchen and wall cupboards etc to classrooms (drawing A(74)6001)

Cupboards

Kitchen cupboards etc

Worktops shelving etc

10	Wall mounted shelving 712mm high x 2784mm long A (74) 6012 Rev A	No	2
11	2025mm high x 3400mm long wall mounted shelving as per drawing A (74) 6008 Rev A	No	2
12	300 x 1100 x 19mm Laminated MDF sink shelf with laminate finish to match cupboard doors	No	2
13	Floor mounted countertop 720mm high x 863mm long as per drawing A (74) 6012 Rev A	No	2

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Section No. 6
EXTERNAL BUILDINGS (GUARDHOUSE & REFUSE)
Bill No. 7
CARPENTRY AND JOINERY

COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS

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Bill No. 7

CARPENTRY AND JOINERY

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EXTERNAL BUILDINGS (GUARDHOUSE & REFUSE)
Bill No. 7
CARPENTRY AND JOINERY

R

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

9mm "Rhino" gypsum plasterboard with "12mm"
cover strips over joints.

3 Ceilings including 38 x 50mm sawn softwood bandering
at 450mm centres.

m2

36

4 Extra over ceiling for 600 x 600mm trap door of 38 x
50mm wrought softwood rebated frame with one 38 x
38mm sawn softwood cross brander covered with
ceiling board and fitted flush in opening

No

2

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Section No. 6
EXTERNAL BUILDINGS (GUARDHOUSE & REFUSE)
Bill No. 8
CEILINGS AND PARTITIONS

Section No. 6

Bill No. 8

CEILINGS AND PARTITIONS

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Bill No. 8
CEILINGS AND PARTITIONS

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

6	D038R NP Rebate conversion kit for euro profile locks D038S,D037D	No	1		
	<u>HANDLES</u>				
	<u>Dormakaba or similar approved</u>				
7	CB30 CYL S.C Lever handle on plate with cylinder cutout	No	4		
	<u>PULL HANDLES</u>				
	<u>PUSH PLATES AND KICKING PLATES</u>				
	<u>Dormakaba or similar approved</u>				
8	Reference DKP-304-SF200 200mm x 1,2mm thick grade 304 brushed stainless steel kicking plates with 10 countersunk holes for screw fixing	No	4		
	<u>LETTERS, NAMEPLATES, ETC.</u>				
	<u>Dormakaba or similar approved</u>				
9	DSS-145-FHR 150 x 150mm "FIRE HOSE REEL" sign	No	1		
	<u>SUNDRIES</u>				
	<u>Dormakaba or similar approved</u>				
10	Reference 401SC Halcast doorstep and holder plugged	No	4		
	<u>"Galvanized mild steel water bar with fishtailed lugs at 600mm centre"</u>				
11	6 x 70mm Water bar set in concrete	No	2		
	<u>SHELVES ETC</u>				
	<u>"Gelman" with standard epoxy powder coated finish</u>				
12	Single slot wall band fixed with Eureka "Easy Fit" wall anchors at 300mm centres	m	5		
13	435mm shelf bracket	No	20		
Carried to Collection					R
Section No. 6 EXTERNAL BUILDINGS (GUARDHOUSE & REFUSE) Bill No. 10 IRONMONGERY					

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Bill No. 10

IRONMONGERY

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EXTERNAL BUILDINGS (GUARDHOUSE & REFUSE)
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS

Section No. 6

Bill No. 11

METALWORK

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EXTERNAL BUILDINGS (GUARDHOUSE & REFUSE)
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METALWORK

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<u>SECTION NO 6</u>			
<u>BILL NO. 12</u>			
<u>PLASTERING</u>			
<u>PREAMBLES</u>			
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"			
<u>SCREEDS</u>			
<u>Cement plaster screeds steel trowelled on concrete</u>			
1	25mm Thick on floors and landings	m2	36
<u>INTERNAL PLASTER</u>			
<u>Cement plaster on brickwork</u>			
2	On walls	m2	119
<u>SPECIALIST FLOOR COVERINGS</u>			
<u>Clean floor surface free from dust , grease, spills etc, ready to receive Stonclad UL all in accordance with manufacturers specifications</u>			
3	Polyurethane non-slip to screeded concrete floors according to manufacturers instructions	m2	8.96
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Section No. 6			
EXTERNAL BUILDINGS (GUARDHOUSE & REFUSE)			
Bill No. 12			
PLASTERING			

Item No	Quantity	Rate	Amount
<u>SECTION NO 6</u>			
<u>BILL NO. 13</u>			
<u>TILING</u>			
<u>PREAMBLES</u>			
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions</u>			
Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
<u>WALL TILING</u>			
<u>200 x 200 x 5mm White gloss glazed ceramic tiles on brickwork including cement plaster backing</u>			
1	On walls	m2	3.69
<u>200 x 200 x 5mm Grey gloss glazed ceramic tiles on brickwork including cement plaster backing</u>			
2	On walls	m2	3.69
<u>200 x 200 x 5mm Turquoise gloss glazed ceramic tiles on brickwork including cement plaster backing</u>			
3	On walls	m2	3.69
<u>200 x 200 x 5mm Dark blue gloss glazed ceramic tiles on brickwork including cement plaster backing</u>			
4	On walls	m2	3.69
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Section No. 6 EXTERNAL BUILDINGS (GUARDHOUSE & REFUSE) Bill No. 13 TILING			

Copper pipes

Pipes shall be hard drawn and half-hard pipes of the class stated. 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. Only compression fittings shall be used in walls or in ground

Exposed concrete surfaces

Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster

Excavations

No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling "Soft rock" and "hard rock" shall be as defined in "Earthworks"

Laying, backfilling, bedding, etc of pipes

Laying, backfilling, bedding, etc of pipes Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 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 SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding

Flush pans

Flush pans shall have straight or side outlets and "P" or "S" traps as necessary

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EXTERNAL BUILDINGS (GUARDHOUSE & REFUSE)
Bill No. 14
PLUMBING AND DRAINAGE

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

Stainless steel basins, sinks, wash troughs, urinals, etc

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable

Waste unions

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings

RAINWATER DISPOSAL

3mm Galvanised sheet iron with expanded mesh
aluminium leaf guard

1	650mm girth box gutters with four bends	m	40
2	1200mm girth box gutters with three bends	m	11
3	Extra over for outlet for 70mm outlet pipe	No	6
4	Extra over for stopped end for 650mm girth gutter	No	2
5	Extra over for stopped end for 1200mm girth gutter	No	2
6	Extra over for cross gutter strengthening cleat for 650mm girth gutter	No	3
7	Extra over for cross gutter strengthening cleat for 1200mm girth gutter	No	3
<u>0.8mm Aluminium gutters fixed to purlins at 500mm centres with G4 colourtech interall and externally</u>			
8	150 x 125mm Ogee eaves gutters with a beaded front edge	m	50
9	Extra over 150 x 125mm eaves gutter for 75 x 100mm outlet pipe	No	7
10	Extra over 150 x 125mm eaves gutter for stopped end	No	3
11	Extra over 150 x 125mm eaves gutter for angle	No	15
<u>0.6mm aluminium seamless downpipes coated with Colourtech G4 white all round</u>			
12	70mm diameter pipe fixed to wall	m	21

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**COLLINGWOOD PRIMARY SCHOOL
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13	Extra over 70mm rainwater pipe for bend	No	7
14	Extra over 70mm rainwater pipe for 600mm swan neck	No	5
15	Extra over 70mm rainwater pipe for shoe	No	9
16	70 x 100mm pipe fixed to wall	m	27
17	Extra over 75 x 100mm rainwater pipe for bend	No	7
18	Extra over 75 x 100mm rainwater pipe for 600mm swan neck	No	7
19	Extra over 75 x 100mm rainwater pipe for shoe	No	7
<u>SOIL WASTE AND VENT PIPES</u>			
<u>GEBERIT HDPE or equal approved drainage piping including cutting, pipe preparation, brackets, hangers & butt welding pipes</u>			
20	56mm Diameter pipes	m	13
21	110mm Diameter pipes	m	9
<u>Extra over HDPE pipes for fittings</u>			
22	56mm Bend	No	6
23	56mm rinseal socket	No	1
24	56mm fusion coupling	No	1
25	56 x 40mm sleeve	No	1
26	110mm bend	No	2
27	110mm eccentric reducer	No	1
28	110mm Junction	No	1
29	110mm fusion socket	No	4
30	110mm Pan connector	No	1
31	110mm connecting pipe	No	1

HOT AND COLD WATER SERVICES

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Geberit 'Mepla' multi layered mepla pipe including couplers in running lengths, cramping and fixing to holderbats and chasing droppers to brickwork wrapped in kraft paper</u>				
32	20mm Diameter pipes	m	21		
33	26mm Diameter pipes	m	16		
	<u>Extra over 'Geberit' Mepla pipe for</u>				
34	20mm Fitting	No	18		
35	26mm Fitting	No	6		
	<u>SANITARY FITTINGS</u>				
	<u>As supplied by Vaal Sanitaryware (White), sealed to tiled walls with silicon sealant as necessary</u>				
	<u>Water closets</u>				
36	Vandal Resistant Universal WC Pan from non-porous homogenous polymeric material. Code: GYP/VA.R1/01. FLUSHING SYSTEM: Sanitaryware Hibiscus concealed cisterns (7116DP).	No	1		
	<u>Sinks</u>				
37	Cleaner/Drip sink unit manufactured from 1.2mm thick grade 304 stainless steel 0.9mm thick gauge with grid.Sink is 600 x 500 x 248mm deep with a pressed bowl of 525 x 425mm abd 40mm waste outlet with a capacity of 43 litres.The unit is to be fitted with a stainless steel hinged bucket grid, manufactured from a 10mm stainless steel round bar,supplied with a pair of stainless steel Eagle brackets.To be fixed to wall 600mm high from the top of the front apron to be finished floor level with 4 of anchor bolts Code: 350960	No	1		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

38	Franke® Surrond Wall Mounted Basin without splashback. Unit to be manufactured from Grade 304 (18/10) stainless steel, 1.2mm gauge in a satin finish. Unit to include pressed bowl 360x320x130mm deep with a 40mm waste outlet and a polished outer casing with a removeable base plate. Basin to be supplied with two 25x6mm fixing brackets to secure basin to wall. Fixing bracket fixed to wall with 4x6mm anchor bolts. Code: 256550010 FSW. <u>TAPS, VALVES, ETC.</u> <u>Taps, valves, etc., including coupling to pipes and/or fittings</u> <u>As supplied by Cobra Watertech</u>	No	1		
39	Chrome metering pillar tap with self-closing and flow control. Code: KM2-100.	No	1		
40	Star hose bib tap with hot and cold indices, chrome plated. Cold only, with CP extension piece with sliding wall flange, mounted centrally over slop sink (elsewhere measured) cold water supply inlet at 1 200mm above FFL. Wall flange to be silicon sealed to back wall all round. Code: COB 211-15.	No	1		
	<u>WASTE UNIONS, TRAPS, ETC.</u> <u>As supplied by Cobra Watertech</u>				
41	32mm Chromium plated slotted basin waste with plug, chain and stay Ref. No. 301	No	1		
42	Cobra® trap, 40mm Chrome plated deep seal bottle trap with outlet for 50mm PVC, with 300mm long tailpipe with wall flange. Code: 385/35SQ. As per manufactures instruction.	No	1		
43	38mm Chromium plated sink waste Ref. No. 316/40	No	1		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

" Franke"

44 Double toilet roll holder with spindle system for wall mounting, stainless steel, surface satin finished, material thickness 1.5 mm, curved front cover, cylinder lock, for 2 rolls with max. Ø 120 mm, second roll will be released after consumption of first roll, with spindles, reserve roll not visible, incl. stainless steel screws and dowels. Overall size 156Wx303Hx141D. Code: 359715.

No

1

45 Soap dispenser for wall mounting, stainless steel, surface satin finished, front, material thickness 1.5 mm, curved front cover, cylinder lock, inspection window on front, suitable for liquid soaps and lotions, 0.8 liter soap tank, with plastic pull lever, incl. stainless steel screws and dowels. Overall size 100Wx304Hx134D. Code:359740.

No

1

46 Paper towel dispenser with front cover from High Grade 304 Stainless Steel material available in Satin (Code SS1118)finish. Dimensions:Height (H): 330mm, Width (W): 280mm, Depth (D): 220mm

No

1

TESTING

Testing of the following installations

47 Waste and ventilation installation

Item

48 Hot and cold water installation

Item

49 Allow for flushing out and super-chlorinating the whole of the water supply installation

Item

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

PAINT ON METAL

Prepare, touch up primer and apply one coat "Dulux" steel primer one coat "Dulux" universal undercoat and three coats "Dulux Dura 100" high gloss enamel paint

3	On pressed steel door frames	m2	18	
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Prepare, touch up primer and apply one coat "Dulux Duraphos" one coat "Dulux" universal undercoat and two coats "Dulux Dura 100" high gloss enamel paint

4	On steel windows with burglar bars (both sides measured)	m2	3	
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Prepare and apply one coat "Dulux" wood primer two coats "Dulux" universal undercoat and three coats "Dulux" eggshell enamel paint

5	On doors	m2	1	
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Bill No. 16
PAINTWORK

COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS

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Bill No. 16

PAINTWORK

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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4	MASONRY	293	
5	WATERPROOFING	294	
6	ROOF COVERINGS, ETC	295	
7	CARPENTRY AND JOINERY	300	
8	CEILINGS AND PARTITIONS	303	
9	FLOOR COVERINGS, WALL LININGS, ETC	304	
10	IRONMONGERY	307	
11	METALWORK	310	
12	PLASTERING	311	
13	TILING	312	
14	PLUMBING AND DRAINAGE	320	
15	GLAZING	321	
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 7</u>			
	<u>DEMOLITIONS AND ALTERATIONS</u>			
	<u>BILL NO. 1</u>			
	<u>Breaking up and removing</u>			
1	150mm Thick reinforced concrete surface beds, paving, etc	m2	378	
2	Break up and remove concrete steps to existing sports seating area, average thickness 250mm . Contractor to dispose material to a dumpsite	m2	732	
3	Breakup and remove asphalted parking including driveway , average thickness 150mm . Contractor to dispose material to dumpsite	m2	2 310	
4	Remove base and subbase material in previously asphalted areas and store material on site for re-use	m3	693	
5	Break up and remove reinforced bases average size 1.5mx1.5mx0.45m and dispose to dump site	m3	81	
6	Break up and remove concrete kerbing including channelling and haunching , and cartaway off site	m	305	
7	Break up and remove precast manholes 1050mm diameter average depth N.E 4m deep including backfilling with approved material	No	5	
8	Break up and remove brick manholes average size 1x1xm depth N.E 3m including backing with approved material	No	15	
	<u>Removal of pipes inclusive of disinfecting, disconnecting sewer system and backfilling of excavations using material from site stockpile</u>			
9	PVC pipes size not exceeding 200mm dia , excavations exceeding 1m but not exceeding 2m	m	60	
10	PVC pipes size not exceeding 200mm dia , excavations exceeding 2m but not exceeding 3m	m	40	
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	Bill No. 1			
	DEMOLITIONS AND ALTERATIONS			

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

11	PVC pipes size not exceeding 200mm dia , excavations exceeding 3m but not exceeding 4m	m	30		
12	Concrete pipes size not exceeding 700mm dia , excavations exceeding 1m deep but not exceeding 2m deep	m	60		
13	Concrete pipes size not exceeding 700mm dia , excavations exceeding 2m deep but not exceeding 3m deep	m	30		
	<u>Taking down and removing</u>				
14	Perimeter fence 2400mm high with steel posts and droppers	m	784		
15	Remove and transport off site mobile toilets, including disinfecting	No	3		
	<u>Demolishing and removing</u>				
16	Single storey building with pitched roof, 25m x 15m on plan and 3.5m high at eaves, comprising reinforced concrete surface bed, prefabricated external walls, dry partition internal walls and roof covering on timber trusses inclusive of removal of all doors , windows and disposal to dump site identified by Contractor [BLOCK A]	No	1		
17	Single storey building with pitched roof, 12 x 8m on plan and 3.5m high at eaves, comprising reinforced concrete surface bed, prefabricated external walls, dry partition internal walls and roof covering on timber trusses inclusive of removal of all doors , windows and disposal to dump site identified by Contractor [BLOCK B]	No	1		
18	Single storey building with concrete roof, 4 x 4m on plan and 3.0m high , comprising reinforced concrete surface bed, concrete wall inclusive of removal of fire door disposal to dump site identified by Contractor [Electrical Substation]	No	1		
19	Single storey building with pitched roof, 5 x 5m on plan and 3.5m high at eaves, comprising reinforced concrete surface bed, prefabricated external walls, dry partition internal walls and roof covering on timber trusses inclusive of removal of all doors , windows and disposal to dump site identified by Contractor [Guardhouse]	No	1		
20	One brickwall and cartway rubble offsite	m2	98		
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Section No. 7 EXTERNAL WORKS Bill No. 1 DEMOLITIONS AND ALTERATIONS					

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS

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Bill No. 1

DEMOLITIONS AND ALTERATIONS

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EXTERNAL WORKS

Bill No. 1

DEMOLITIONS AND ALTERATIONS

Item No		Quantity	Rate	Amount
BILL NO. 2				
SITE CLEARANCE & BULK EARTHWORKS				
PREAMBLES				
For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"				
SUPPLEMENTARY PREAMBLES				
Where applicable the Contractor is referred to the relevant sections of SABS1200 for the full specification, meaning and implications of the work to be executed				
EARTHWORKS				
<u>Site clearance</u>				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m ²	14 879	
REMOVAL OF TREES ETC				
<u>Taking out and removing, grubbing up roots and filling in holes</u>				
2	Tree stump exceeding 200mm and not exceeding 500mm girth	No	2	
3	Tree stump exceeding 500mm and not exceeding 1000mm girth	No	3	
4	Tree stump exceeding 1000mm and not exceeding 1500mm girth	No	5	
5	Tree stump exceeding 1500mm and not exceeding 2000mm girth	No	1	
6	Tree stump exceeding 2000mm and not exceeding 2500mm girth	No	1	
BULK EXCAVATION, FILLING, ETC				
EXCAVATIONS ETC				
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS

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Bill No. 2

SITE CLEARANCE & BULK EARTHWORKS

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EXTERNAL WORKS

Bill No. 2

SITE CLEARANCE & BULK EARTHWORKS

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

Item No		Quantity	Rate	Amount
<u>BILL NO.3</u>				
<u>EXTERNAL PLUMBING</u>				
<u>WATER AND FIRE MAIN RETICULATION</u>				
<u>uPVC Class 16 pipes with rubber seal ring joints and cast iron fittings to S.A.B.S. 966 laid in and including surface trench,minimum 900mm deep and maximum 1200mm deep, bedding minimum 900mm deep and maximum 1200mm deep, bedding and backfilling in granular material</u>				
1	75mm Diameter	m	380	
2	110mm Diameter	m	60	
3	Excavate to locate existing 110mm diameter pipe and insert new 110mm tee for new connection	No	1	
4	Extra over for imported selected granular bedding material	m3	99	
<u>Extra on 75mm pipe for:</u>				
5	45mm Cast iron pressure bend	No	10	
6	90mm Cast iron pressure bend	No	10	
7	75 x 75mm Cast iron equal tee	No	5	
8	75mm Cast iron socketted end cap	No	1	
9	75mm Saddle with 25mm HDPe connector	No	10	
10	75mm Saddle with 32mm HDPe connector	No	10	
<u>Extra on 110mm pipe for:</u>				
11	45mm Cast iron pressure bend	No	2	
12	90mm Cast iron pressure bend	No	2	
13	110 x 110mm Cast iron equal tee	No	2	
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Section No. 7 EXTERNAL WORKS Bill No. 3 EXTERNAL PLUMBING				

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

14	110mm Cast iron hydrant tee	No	2
15	110 x 75mm Cast iron reducer	No	1
16	110mm Cast iron socketted end cap	No	1
	<u>High density polyethylene (HDPE) to SABS 533, type IV, Class 10 with compression fittings laid in and including surface trench, not exceeding 1m deep and Type A bedding and surrounding in granular material</u>		
17	50mm Diameter	m	282
18	75mm Diameter	m	340
19	Extra over all diameters for imported selected granular material	m3	15
	<u>Extra on 50mm pipe for:</u>		
20	Plasson or equal approved Compression fitting	No	30
	<u>Extra on 75mm pipe for Plasson equal approved compression fittings</u>		
21	Bend	No	5
22	Equal tee	No	10
23	75 x 50mm Reducer	No	5
24	75mm Plasson pipe adaptor	No	2
	<u>Water storage tanks</u>		
25	5000 Litre Polyethylene water tank fitted with connector to 25mm HDPE water supply pipe, set on top of concrete tank stand (elsewhere measured) and secured with 4.no 25mm galvanised linked chain encased in polyethylene hose piping and secured to concrete base with 8mm diameter expanding bolt hooks	No	15

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Section No. 7
EXTERNAL WORKS
Bill No. 3
EXTERNAL PLUMBING

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	Galvanised mild steel pipes (medium weight) with screwed and socketted joints and fittings laid in and including surface trench, minimum 900mm deep and bedding and surrounding in granular material selected from the excavations.				
26	25mm Diameter pipe	m	36		
27	32mm Diameter pipe	m	21		
	<u>Extra on 20mm pipe for</u>				
28	Fittings	No	30		
	<u>Extra on 20mm pipe for:</u>				
29	Fitting	No	22		
	<u>Valves, fittings etc</u>				
30	Cobra 108LK-20 or equal approved rough brass hose bibtap with lockshield and loose key, and 3/4 BSP hose union	No	6		
31	25mm Prestex or equal approved cast brass fullway gate valve type 1001/125-20	No	6		
32	32mm Prestex or equal approved cast brass fullway gate valve type 1001/125-32	No	8		
33	50mm Prestex or equal approved cast brass fullway gate valve type 1001/125-50	No	3		
34	75mm Resilient gate valve	No	2		
35	75mm Non Return Valve	No	1		
36	100mm Cast iron gate valve to SABS 664 Class 16 with socket ends for uPVC	No	1		
	<u>Fire fighting fittings</u>				
37	Fire hose reel complete with 30M pvc hose 20mm diameter, chrome plated stopcock, shut off nozzle, and wall brackets, boleted to wall using 8mm expanding wall anchors and connection to pipework	No	17		
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Section No. 7 EXTERNAL WORKS Bill No. 3 EXTERNAL PLUMBING					

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

38	4.5 DCp fire extinguishers fixed to wall on on meranti backing boards with champhered edges	No	34		
39	65mm Screwdown underground hydrant to BS750 with 80mm GMS standpipe	No	2		
40	65mm Twin booster connection complete with pressure gauge, "U"tube and pet cock with all pipewrok,connection to fire and concrete bollard cast around	No	1		
	<u>Boxes and chambers, etc.</u>				
41	Excavate for and build valve box set on 1300 x 1600 x 150mm thick concrete base, 230mm NFX extra hardburnt brickwall in english bond, size internally 600 x 900mm and fitted with 600 x 900mm cast iron cover and frame set level to ground level,total depth of chamber not to exceed 800mm deep	No	1		
	<u>Sundries</u>				
42	Cart away surplus material to a dumping site located by the contractor	m3	173		
43	Import Class "B" bedding and initial backfill to 300mm above crown of pipe	m3	16		
44	Backfilling trenches with material from the excavations, compacted to a density of at least 95% Mod AASHTO	m3	173		
	<u>Thrust blocks and encasement</u>				
45	Mass concrete (Class 20/19) in thrust and anchor blocks including all necessary formwork and additional excavations and disposal	m3	4		
	<u>Marker Post</u>				
46	Pre-cast concrete indicator post 200 x 200mm at base and 160 x 160mm at top and 1400mm long set in and including concrete and all necessary excavation, disposal, etc., painting and indicator plate	No	2		
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Section No. 7 EXTERNAL WORKS Bill No. 3 EXTERNAL PLUMBING					

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Stanchions to stand pipes</u>			
47	50 x 50 x 2.5mm square hollow section mild steel stanchion top end sealed with 2.5mm mild steel plate, bedded in 400 x 400 x 500mm high 25 mpa mass concrete base include all excavation and disposal of excess material	No	6	
	<u>Excavation of a different nature</u>			
	<u>Extra over excavations in "earth" for pipe trenches etc. for excavating in:</u>			
48	Hard material	m3	10	
49	Rock	m3	5	
	<u>Testing</u>			
50	Allow for cleaning out and sterilising and testing the whole of the <u>pipe lines to the approval of the Architect</u>			Item
	<u>SOIL DRAINAGE</u>			
	Note: Prices for pipes and manholes are to include for excavation to the required level, risk of collapse of sides, keeping free from water, and backfilling in 150mm layers compacted to 95% of maximum modified A.A.S.H.T.O. and carting surplus excavated material away from site to an approved dump			
	<u>PIPEWORK</u>			
	<u>uPVC Pipes and fittings to SABS 791 (Class 51, Normal duty) for underground installation laid to falls in trench, including type B bedding for flexible pipes, etc.</u>			
51	110mm Diameter pipe in ramps	m	15	
52	110mm Diameter pipe not exceeding 1000mm deep	m	178	
53	160mm Diameter pipe exceeding 1000mm and not exceeding 2000mm deep	m	80	
54	160mm Diameter pipe exceeding 2000mm and not exceeding 3000mm deep	m	80	
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

55	160mm Diameter pipe exceeding 3000mm and not exceeding 4000mm deep	m	133		
	<u>Extra over uPVC pipe for uPVC rubber ring seal fittings:</u>				
56	110mm Plain bend	No	83		
57	110mm 45deg Plain junction	No	41		
58	160mm 45deg Plain bend	No	15		
59	160 x 160mm plain junction	No	5		
60	160 x 110mm 45deg Access reducing junction	No	13		
61	100mm Diameter cast iron ABC rodding eye	No	15		
62	160mm Diameter cast iron ABC rodding eye	No	2		

MANHOLES AND INSPECTION CHAMBERS

The following manholes and inspection chambers are to be constructed as detailed on SCS Engineer's Standard Sewer Details drawing no. 6005 (Rev. 0) including all excavation and backfilling, cast iron manhole covers and frames as specified and all necessary channels

Excavate for and construct one brickwall sump using NFX Hard burnt clay bricks in fair facing set on 150mm thick concrete base graded to falls and with 150mm reinforced concrete cover slab using Y12 steel bars at 200mm centres in both directions and with rebated opening to take grate and frame (grate and frame elsewhere measured), Size of catchpit 900 x 600mm

63	Not exceeding 1.0m deep	No	1		
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Bill No. 3
EXTERNAL PLUMBING

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Excavate for and construct inspection chamber comprising of 1050mm diameter precast concrete rings set on 350mm thick 20Mpa/19mm unreinforced concrete base. The base of the manhole to be dished down to open manhole channel and finished in 1:2 HAC render with all angles rounded. All pipe built into manhole shall not exceed 1.0m in length and shall have clean dry sand glued on the external surface. Manhole to be fitted with 150mm precast concrete cover slab with 550mm dia opening to take cover and frame (elsewhere measured). All joints between manhole rings to be sealed with bitumen mastic</u>				
64	1000 - 2000mm Deep to invert	No	9		
65	2000 - 3000mm Deep to invert	No	1		
66	3000 - 4000mm Deep to invert	No	3		
	<u>Covers and Frames, Etc</u>				
67	Ductile Iron lockable hinged cover and frame as manufactured by PAM ST Gobain size 600mm diameter x 65kg and set in position as per manufacturers instructions	No	1		
68	1150 x 1150 x 150mm thick precast concrete cover slab with reinforcing	No	13		
	<u>Gulley traps and rodding eyes</u>				
69	Excavate for and construct gulley comprising of 110mm Upvc gulley trap with 190mm dia Upvc hopperhead with pvc grating, all set in mass concrete and not exceeding 500mm deep. The top of the gulley to be raised 75mm above surrounding ground level and internally dished down to hopper head with smoothed render and external of raised sides to be finished neatly	No	13		
70	110mm cast iron rodding eyes set in 300 x 300 x 300mm thick 15MPa/19 unreinforced concrete surround finished smooth on exposed surfaces with rounded angles	No	15		
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**COLLINGWOOD PRIMARY SCHOOL
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**COLLINGWOOD PRIMARY SCHOOL
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<u>BILL NO.4</u>				
<u>WATER STORAGE TANK AND STAND</u>				
<u>Earthworks</u>				
1	Excavate in earth not exceeding 2m deep for holes	m3	139	
<u>Extra over trench and hole excavations in earth for excavations in</u>				
2	Soft rock	m3	14	
3	Hard rock	m3	7	
<u>Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 75% Mod AASHTO density</u>				
4	Exceeding 1m and not exceeding 1m deep for placing and removing formwork to walls etc, 500mm away from excavated face	m2	264	
<u>Extra over all excavations for carting away</u>				
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	79	
<u>Risk of collapse of excavations</u>				
6	Risk of collapse to sides of excavations	m2	264	
<u>Keeping excavations free of water</u>				
7	Keeping excavations free of water other than subterranean water		Item	
<u>FILLING ETC</u>				
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site including haulage approximately 500m from perimeter of excavations or stock piles, compacted to 95% Mod AASHTO density</u>				
8	Backfilling to trenches, holes, etc	m3	60	
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Filling of gravel-soil material G10 supplied by the Contractor, compacted to 95% Mod AASHTO density</u>				
9	Backfilling to trenches, holes, etc	m3	20		
	<u>Filling of gravel-soil material G7 supplied by the Contractor, compacted to 95% Mod AASHTO density</u>				
10	Under floors, steps, pavings, etc	m3	82		
	<u>Compaction of surfaces</u>				
11	Compaction of ground surface under pavings, aprons, 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	183		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide in accordance with SANS 5859</u>				
12	Under floors, etc including forming and poisoning shallow furrows against foundation walls, etc filling in furrows and ramming	m2	183		
13	To bottoms and sides of trenches, etc	m2	357		
	<u>TESTS</u>				
	<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>				
14	"Modified AASHTO Density" test	No	8		
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>15MPa/19mm reinforced concrete</u>				
15	Surface blinding under surface beds	m3	10		
16	Surface blinding under footings and bases	m3	5		
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
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**COLLINGWOOD PRIMARY SCHOOL
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	<u>25MPa/19mm concrete</u>				
17	Strip footings	m3	24		
	<u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>				
	<u>30MPa/19mm concrete</u>				
18	Surface beds cast in panels	m3	46		
	<u>TEST CUBES</u>				
19	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	15		
	<u>Finishing top surfaces of concrete smooth with a power float with high quality grey (ivory etc?) non-metallic commercial hardener added (7kg/m² in two operations), curing with curing compound at a rate of 7-10m²/l, subsequently removing curing compound and sealing with suitable sealer at a rate of 7m²/l</u>				
20	Surface beds, slabs, etc	m2	183		
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>				
	<u>Rough formwork to sides</u>				
21	Slabs	m2	31		
	<u>REINFORCEMENT</u>				
	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>Mild steel reinforcement to structural concrete work</u>				
22	10mm Diameter bars	t	0.50		
23	12mm Diameter bars	t	0.50		
24	16mm Diameter bars	t	0.50		
	<u>High tensile steel reinforcement to structural concrete</u>				
25	10mm Diameter bars	t	0.50		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

26	12mm Diameter bars	t	2.00
27	16mm Diameter bars	t	2.00
	<u>Fabric reinforcement</u>		
28	Type 311 fabric reinforcement in concrete surface beds etc	m2	183
	<u>PRECAST CONCRETE COPINGS ETC</u>		
	<u>Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing</u>		
29	355 x 70mm Thick overall copings with drip groove in bottom along both edges	m	61
	<u>BRICKWORK</u>		
	<u>FOUNDATIONS (PROVISIONAL)</u>		
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>		
30	One brick walls	m2	139
31	270mm Cavity wall in two half brick skins including wire ties	m2	10
	<u>SUPERSTRUCTURE</u>		
32	Half brick honeycomb wall	m2	112
33	One brick walls	m2	131
	<u>BRICKWORK SUNDRIES</u>		
34	Closing 40mm cavities of hollow walls vertically with brickwork half brick wide	m	50
35	Closing 40mm cavities of hollow walls horizontally with brickwork half brick wide	m	10
	<u>2.5mm Brickwork reinforcement</u>		
36	150mm Wide reinforcement built in horizontally	m	1 099

FACE BRICKWORK

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site including haulage approximately 500m from perimeter of excavations or stock piles, compacted to 95% Mod AASHTO density</u>				
10	Over site to make up levels	m3	201		
	<u>Filling of gravel-soil material G7 supplied by the contractor, compacted to 97% Mod AASHTO density</u>				
11	Under floors, steps, pavings, etc	m3	201		
12	In trenches compacted in 150mm layers	m3	1 086		
	<u>Filling of natural gravel material G5 supplied by the contractor, compacted to 95% Mod AASHTO density</u>				
13	Under floors, steps, pavings, etc	m3	201		
	<u>Filling of coarse river sand supplied by the contractor, consolidated</u>				
14	Under floors, steps, pavings, etc	m3	67		
	<u>Compaction of surfaces</u>				
15	Compaction of ground surface under pavings, aprons, 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	1 335		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide in accordance with SANS 5859</u>				
16	Under floors, etc including forming and poisoning shallow furrows against foundation walls, etc filling in furrows and ramming	m2	1 335		
	<u>TESTS</u>				
	<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>				
17	"Modified AASHTO Density" test	No	5		
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
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**COLLINGWOOD PRIMARY SCHOOL
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	<u>15MPa/19mm reinforced concrete</u>				
18	Surface blinding under footings and bases	m3	29		
	<u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>				
	<u>25MPa/19mm concrete</u>				
19	Strip footings	m3	138		
20	Bases	m3	8		
21	Pavings cast in panels	m3	167		
	<u>25MPa/17mm concrete</u>				
22	Exposed aggregate concrete black chip stone floor cast in panels	m3	81		
	<u>30Mpa/19mm concrete</u>				
23	Cast-insitu concrete coping benches	m3	8		
	<u>TEST CUBES</u>				
24	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	10		
	<u>CONCRETE SUNDRIES</u>				
	<u>Sandblasting of concrete surfaces to expose aggregate</u>				
25	Pavings to falls	m2	1 335		
	<u>MOVEMENT JOINTS, ETC.</u>				
	<u>Stepped dampproof course embossed Brikrip Blue 375 micron lapped at all joints and intersections bedded and joined in cement mortar, including 2coats A.B.E duraflex as per drawing A(50)4010A</u>				
26	Exceeding 300mm wide	m2	461.00		
	<u>Saw-cut joints</u>				
27	20 x 10mm Saw-cut joints in top of concrete	m	421		
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**COLLINGWOOD PRIMARY SCHOOL
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ROUGH FORMWORK (DEGREE OF ACCURACY II)

Rough formwork to sides

28	Ground beams	m2	20
29	To sides of concrete in trenches	m2	275
30	Bases	m2	58
31	To sides and soffits of built-in benches bearing level n.e 1m high	m2	84

REINFORCEMENT

REINFORCEMENT (PROVISIONAL)

Mild steel reinforcement to structural concrete work

32	10mm Diameter bars	t	0.10
33	12mm Diameter bars	t	1.50
34	16mm Diameter bars	t	1.50

High tensile steel reinforcement to structural concrete

35	10mm Diameter bars	t	0.10
36	12mm Diameter bars	t	11.00
37	16mm Diameter bars	t	10.00

Fabric reinforcement

38	Type 311 fabric reinforcement in concrete surface beds etc	m2	549
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High tensile steel dowel bars

39	12mm Diameter dowel bar 600mm long with one end embedded 300mm deep in side of concrete at expansion joint and other end greased and wrapped in polythene sheeting, including hole through formwork	No	732.00
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PRECAST CONCRETE

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	<u>Precast concrete water channel on 80mm thick mortar bed</u>		
40	450mm half round	m	549
	<u>BRICKWORK</u>		
	<u>FOUNDATIONS (PROVISIONAL)</u>		
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>		
41	One brick walls	m2	211
	<u>SUPERSTRUCTURE</u>		
	<u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in class II mortar</u>		
42	One brick walls	m2	257
	<u>2.5mm Brickwork reinforcement</u>		
43	150mm Wide reinforcement built in horizontally	m	1 836
	<u>FACE BRICKWORK</u>		
	<u>Corobrik Firelight satin FBX face bricks pointed with flush horizontal and vertical joints</u>		
44	Extra over brickwork for face brickwork	m2	257
45	Extra over brickwork in foundations for face brickwork (Provisional)	m2	106
46	Extra over brickwork for header courses to edge of walkway against upstand brickwall	m	127
47	Extra over brickwork for bullnose header to edge of walkway	m	139
	<u>BRICKWORK SUNDRIES</u>		
48	Weepholes including rodent protection as per drawing No A (50) 4010 Rev A	No	112

WATERPROOFING

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	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>				
49	Under surface beds	m2	1 335		
	<u>WATERPROOFING TO ROOFS ETC</u>				
	<u>Sika Rain Tite flexible UV resistant acrylic emulsion waterproofing system</u>				
50	On roof aluminium counter flashing	m2	192		
	<u>ROOF COVERINGS, CLADDINGS, ETC</u>				
	<u>PROFILED FIBRE-CEMENT SHEETING AND ACCESSORIES</u>				
	<u>0.8mm thick sea spray matt Safintra Newlok interlocking roof covering</u>				
51	Roof covering with pitches not exceeding 25 degrees	m2	1 469		
52	Extra over roof covering for bullnose (lip down) at eaves	m	550		
	<u>0.8mm thick aluminium headwall flashing notched on site to match roof profile and aluminium counter flashing colour to match roof material</u>				
53	Cover flashings 600mm girth	m	550		
	<u>STRUCTURAL STEELWORK</u>				
	<u>GALVANISED STEEL COLUMNS AND BEAMS</u>				
	<u>Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to 500x500x250mm concrete base (measured elsewhere)</u>				
54	75 x 75 x 4mm thick square hollow section columns including galvanising and painting 3 coats gloss enamel paint	t	2.00		
55	152 x 152 x 23mm H column	t	6.00		
56	180 x 80 x 4mm Hollow section beam.	t	2.00		

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

**GALVANISED STEEL PURLINS, GIRTS,
BRACING, ETC**

57	125 x 75 x 20 x 2.5mm thick cold-formed lipped channel purlins including paint	t	7.00
58	IPE100 rafter at 3.6m centres including painting paint	t	3.00
59	100 x 50 x 20 x 2.5mm thick cold-formed lipped channel purlins including paint	t	6.00
60	200mm long x M16 galvanised bolts including 20mm thick x 500x500 steel plate and fixing into position	No	528.00
61	100 x 50 x 20 x 2.5 cold formed lip channel purlin, galvanised and painted	t	4.91
62	125 x 75 x 20 x 2,5mm cold formed purling galvanised and painted	t	5.86
63	IPE100 rafter at 3.6m c/c galvanised and painted	t	2.60

METALWORK

64	Steel lugs welded to column for fixing light fitting as per drawing A (50) 4011 Rev A	No	451.00
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STEEL BALUSTRADING

GALVANISED STEEL BALUSTRADING

65	Horizontal balustrading 1000mm high, of 100mm external diameter x 5mm thick continuous pipe handrail, 50 x 5mm flat section continuous top and bottom rails, 50 x 5mm flat section posts at approximately 300mm centres with 150 x 150 x 5mm footplates bolted to concrete and 100 x 100mm intermediate vertical balusters at 1000mm centres between top and bottom rails to Engineers later details	m	155
66	Extra over for rounded end	No	8
67	Extra over for L-intersection	No	2

PLUMBING AND DRAINAGE (PROVISIONAL?)

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RAINWATER DISPOSAL

68	150 x 125mm ogee profile aluminium gutter including brackets fixed to GMS purlin	m	560		
69	75 x 100mm aluminium downpipe	No	451		

ROOF COVERINGS, ETC

0.8mm "Safintra Newlok" aluminium roof sheeting with a COLORPLUS (Colour: Sea Spray Matt) coated finish to one side with a Cool Grey backing coat and accessories fixed to SA pine purlins supported on laminated SA pine rafter at centres as specified with timber bracing strut all to Structural Engineer details including all necessary flashing and cover trims matching the finish of the main roof, to be installed in accordance with manufactures details and specifications.

70	Roof covering with a pitch not exceeding 25 degrees	m2	1 990		
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<u>STAIRCASES</u>			
<u>EARTHWORKS (PROVISIONAL)</u>			
<u>EXCAVATION, FILLING, ETC</u>			
<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>			
<u>EXCAVATIONS ETC</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
1	For stairs and ramps	m3	71.00
<u>Extra over all excavations for carting away</u>			
2	Surplus material from excavations and/or stock piles on site <u>to a dumping site to be located by the contractor</u>	m3	71.00
<u>Keeping excavations free of water</u>			
3	Keeping excavations free of all water other than subterranean water	Item	
<u>FILLING ETC</u>			
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, including haulage approximately 7m from the perimeter of the excavations or stock piles, compacted to 95% Mod AASHTO density</u>			
4	Under ramps and landings	m3	5.00
<u>Filling of gravel-soil material G7 supplied by the contractor, compacted to 95% Mod AASHTO density</u>			
5	Under ramps and landings	m3	71.00
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NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Firelight satin 222x106x73mm (21mpa)face bricks pointed with flush horizontal and vertical joints</u>		
13	Facebrick bullnose header paving	m2	48.00
14	Facebrick on steps	m2	52.00
15	Facebrick pavers laid in stretcher bond pattern	m2	10.00
	<u>WATERPROOFING</u>		
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>		
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>		
16	Under surface beds	m2	471.00
	<u>STEEL HANDRAILS</u>		
	<u>GALVANISED STEEL HANDRAILS</u>		
	<u>Welded handrails to stairs</u>		
17	40mm External diameter x 6mm thick continuous handrail as per drawing A (50) 4002 Rev A including bolting to concrete stairs, corners, mitres, intersections, stop ends, and painting	m	76.00
18	Handrail wall mounted as per drawing A (50) 4002 Rev A including painting	m	106.00

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Item No		Quantity	Rate	Amount
<u>Bill No 7</u>				
<u>ROADWORK, PARKING AREAS AND PAVING</u>				
<u>Excavation in earth not exceeding 2m deep</u>				
1	Over site between buildings, retaining walls, etc to reduce levels and stockpile on site for future use	m3	468	
<u>Extra over bulk excavations in earth for breaking up and removing</u>				
2	Material from pavements and fills of existing roads (non cemented material)	m3	94	
3	Material from pavements and fills of existing roads (cemented material)	m3	35	
4	Unreinforced concrete	m3	5	
5	Reinforced concrete	m3	3	
<u>Extra over all excavations for carting away</u>				
6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	55	
<u>Keeping excavations free of water</u>				
7	Keeping excavations free of water other than subterranean water		Item	
<u>Compaction of surfaces</u>				
8	Compaction of ground surfaces under parking areas etc by wetting and compacting with 12 passes of a 3-sided 25 kilo Joule high energy impact compactor	m2	1 560	
<u>LAYER WORK</u>				
<u>Filling supplied by the contractor under parking areas, roadways, etc</u>				
9	G7 gravel-soil material compacted to 97% Mod AASHTO density	m3	234	
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

10	Subbase course of G5 natural gravel material, compacted to 97% Mod AASHTO density	m3	234
11	Base course of G2 graded crushed stone, compacted to 95% of apparent density	m3	234
12	Extra over base course of natural gravel material for stabilisation with cement at 3%	m3	234
	<u>Prescribed density tests on filling</u>		
13	"Modified AASHTO Density" tests	No	5
	<u>Approved weedkiller mixed and applied strictly in accordance with the manufacturer's instructions</u>		
14	Under paving, etc	m2	1 560
	<u>Bituminous premix road surfacing</u>		
15	40mm thick continuously graded hot premix asphalt	t	1.56
16	Kerb (SABS 927 fig 6) 230 x 125mm high, vertical kerb	m	328
	<u>25MPa/19mm concrete</u>		
17	Edging to kerbs etc	m3	8
	<u>Road Markings</u>		
	<u>Paving of 200 x 98,5 x 50mm thick pavers laid with Herringbone bond pattern on and including 25mm thick river sand bed with sand swept into joints</u>		
	<u>Retro-reflective road markings</u>		
	<u>White Road markings broken or unbroken</u>		
18	100mm wide	m	100
19	150mm wide	m	20
20	200mm wide	m	10
21	300mm wide	m	10

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Item No		Quantity	Rate	Amount
	<u>BILL NO.8</u>			
	<u>PERGOLA AND PAVINGS</u>			
1	Timber pergola as per drawing A (50) 4024 Rev A including concrete footing, treated pine joists, treated beams , galvanised steel hollow core sections , covering 145m2	Item		
	<u>Pavings, apron slabs</u>			
	<u>FILLING ETC</u>			
	<u>Filling of gravel-soil material G7 supplied by the contractor, compacted to 95% Mod AASHTO density</u>			
2	Pavings, apron slabs etc	m3	285.00	
	<u>Filling of natural gravel material G5 supplied by the contractor, compacted to 95% Mod AASHTO density</u>			
3	Pavings, apron slabs etc	m3	285.00	
	<u>Compaction of ground surfaces</u>			
4	Compaction of natural or excavated 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	285.00	
	<u>WEED KILLERS, INSECTICIDES, ETC</u>			
	<u>Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrisien 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m²</u>			
5	Pavings, apron slabs etc	m2	285.00	
	<u>TESTS</u>			
	<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>			
6	Modified AASHTO Density test	No	10.00	
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	Bill No. 8			
	SUNDRY WORKS			

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>		
	<u>25MPa/19mm concrete</u>		
7	Apron slab to falls including formwork	m3	275.00
8	Edging to kerbs etc	m3	12.00
	<u>Finishing top surfaces of concrete with a power float and a coarse hard grass broom</u>		
9	Paving to parking areas, roads, etc to falls	m2	1 897.00
10	Edging to kerbs etc not exceeding 300mm wide	m2	79.00
	<u>Expansion joints including sealing of joints</u>		
11	10mm Joints not exceeding 300mm high	m	90.00
	<u>FACEBRICK</u>		
	<u>Firelight satin 222x106x73mm (21mpa)face bricks pointed with flush horizontal and vertical joints</u>		
12	Facebrick bullnose header paving	m2	55.00
13	Facebrick on steps	m2	12.00
	<u>Paving of 50mm Corobrik Firelight Satin paving bricks with butt joints on 25mm thick river sand bed with sand and cement mixture swept into joints and hosed down</u>		
14	Facebrick pavers laid in stretcher bond pattern	m2	1 897.00
	<u>WATERPROOFING</u>		
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>		
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>		
15	Under surface beds	m2	1 897.00
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	SUNDRY WORKS		

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

21	<u>A4 filter fabric blanket with 300mm laps</u> Under stone filled gabion mattresses including preparing ground surface m2 91			
	Section No. 7 EXTERNAL WORKS Bill No. 8 SUNDRY WORKS		R	

COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS

Section No. 7

Bill No. 8

SUNDRY WORKS

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SUNDRY WORKS

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

Item No	Quantity	Rate	Amount
Bill No 9			
<u>SPORTSFIELD,COURTYARDS AND ASSEMBLY AREAS</u>			
<u>EXCAVATION, FILLING, ETC</u>			
<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>			
<u>Open face excavation in earth over sloping site</u>			
1	Open face excavation	m3	95
<u>Extra over trench and hole excavations in earth for excavations in</u>			
2	Soft rock	m3	128
3	Hard rock	m3	64
<u>Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 7% Mod AASHTO density</u>			
4	Exceeding 2m and not exceeding 4m deep for placing and removing formwork to walls etc, 500mm away from excavated face	m2	249
<u>Extra over all excavations for carting away</u>			
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	2 544
<u>Risk of collapse of excavations</u>			
6	Risk of collapse to sides of excavations	m2	249
<u>Keeping excavations free of water</u>			
7	Keeping excavations free of water other than subterranean water	Item	
<u>FILLING ETC</u>			
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Section No. 7 EXTERNAL WORKS Bill No. 9 SPOERTSFIELD,COURTYARDS AND ASSEMBY AREAS			

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrasiën 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m²</u>				
16	Under floors, etc including forming and poisoning shallow furrows against foundation walls, etc filling in furrows and ramming	m2	3 121		
	<u>TESTS</u>				
	<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>				
17	"Modified AASHTO Density" test	No	10		
	<u>30Mpa/19mm reinforced concrete</u>				
18	Paving to parking areas, roadways, courtyard, sportsfield, etc in panels between construction joints etc	m3	294		
19	Edging to kerbs etc	m3	7		
	<u>Finishing top surfaces of concrete with a power float and a coarse hard grass broom</u>				
20	Paving to parking areas, roads, etc to falls	m2	1 956		
21	Edging to kerbs etc not exceeding 300mm wide	m2	42		
	<u>Expansion joints including sealing of joints</u>				
22	10mm Joints not exceeding 300mm high	m	855		
	<u>Sporting Multi-court surfacing</u>				
	<u>New Sporting Multi-court surfacing as per drawing A(04) 1001 A</u>				
23	Surfacing as per drawing A(04) 1001 A	m2	1 956		
	<u>REINFORCEMENT</u>				
	<u>Fabric reinforcement</u>				
24	Type 311 fabric reinforcement in concrete surface beds etc	m2	1 956		

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Bill No. 9
SPOERTSFIELD, COURTYARDS AND ASSEMBLY AREAS

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Paving of Firelight Satin 222 x 106 x 73mm facebrick paving to walkways and treads , laid to falls on and including 30mm thick sand layer with joints filled in with sand, compacted with a vibration compactor</u>		
25	Paving to parking areas, walkways, treads etc to falls, including necessary straight edge blocks	m2	1 219
	<u>Kerbs</u>		
26	Precast concrete kerbing (Figure 6), size 230 x 125mm high	m	274
	<u>DAMPPROOFING OF FLOORS</u>		
	<u>One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>		
27	Under pavings	m2	1 956
	<u>Grassing, ground covers, etc</u>		
28	Kikuyu rolls 50mm thick	m2	6 474

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SPOERTSFIELD,COURTYARDS AND ASSEMBY AREAS

COLLINGWOOD PRIMARY SCHOOL

NEW BUILDINGS AND ANCILLARY SITE WORKS

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Bill No. 9

SPOERTSFIELD,COURTYARDS AND ASSEMBY AREAS

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Keeping excavations free of water</u>				
11	Keeping excavations free of water other than subterranean water		Item		
	<u>FILLING ETC</u>				
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 95% Mod AASHTO density</u>				
12	Over site to make up levels in falls as per drawing A (50) 4019 Rev A	m3	58		
	<u>Filling of gravel-soil material G7 supplied by the contractor, compacted to 100% Mod AASHTO density laid to falls as per drawing A(50)4019 Rev A</u>				
13	To pavillion seating [drawing A(50)4019 Rev A]	m3	77		
	<u>Filling of natural gravel material G5 supplied by the contractor, compacted to 95% Mod AASHTO density laid to falls</u>				
14	Under floors, steps, pavings, etc	m3	4		
	<u>Compaction of surfaces</u>				
15	Compaction of ground surface under pavings, aprons, 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	385		
	<u>SOIL POISONING</u>				
	<u>Soil insecticide in accordance with SANS 5859</u>				
16	Under floors, etc including forming and poisoning shallow furrows against foundation walls, etc filling in furrows and ramming	m2	434		
	<u>TESTS</u>				
	<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>				
17	"Modified AASHTO Density" test	No	4		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

**UNREINFORCED CONCRETE CAST AGAINST
EXCAVATED SURFACES**

15MPa/19mm reinforced concrete

18	Surface blinding under sloping surface beds	m3	20
19	Surface blinding under footings and bases	m3	3

**REINFORCED CONCRETE CAST ON/IN
FORMWORK**

25MPa/19mm concrete

20	Strip footings	m3	13
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30Mpa/19mm concrete

21	Surface beds	m3	96
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15MPa/17mm concrete

22	Paving exposed aggregate finish 80mm thick	m3	134
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TEST CUBES

23	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4
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CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a wood float

24	Surface beds, slabs, etc	m2	336
25	Pavings to falls	m2	20

MOVEMENT JOINTS, ETC.

Expansion joints with 10mm softboard bitumen impregnated softboard between vertical concrete and brick surfaces

26	Exceeding 300mm high through slabs and beams	m2	15.00
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Section No. 7
EXTERNAL WORKS
Bill No. 10
PAVILION SEATING

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Saw-cut joints</u>		
27	20 x 10mm Saw-cut joints in top of concrete	m	189
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>		
	<u>Smooth formwork to sides</u>		
28	Steps	m2	119
29	Edges, risers, ends and reveals exceeding 300mm high or wide	m2	120
30	Sloping edges exceeding 300mm high	m2	81
	<u>REINFORCEMENT (PROVISIONAL)</u>		
	<u>Mild steel reinforcement to structural concrete work</u>		
31	10mm Diameter bars	t	0.10
32	12mm Diameter bars	t	0.07
33	16mm Diameter bars	t	0.07
	<u>High tensile steel reinforcement to structural concrete</u>		
34	10mm Diameter bars	t	0.10
35	12mm Diameter bars	t	0.20
36	16mm Diameter bars	t	1.10
	<u>Fabric reinforcement</u>		
37	Type 311 fabric reinforcement in concrete surface beds etc	m2	483
	<u>High tensile steel dowel bars</u>		
38	16mm Diameter dowel bar 400mm long with one end embedded 200mm deep in side of concrete at expansion joint and other end greased and wrapped in polythene sheeting, including hole through formwork	No	80.00

BRICKWORK

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PAVILION SEATING

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

FOUNDATIONS (PROVISIONAL)

Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar

39	Half brick walls	m2	90	
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FACE BRICKWORK

Corobrik Firelight satin FBX face bricks pointed with flush horizontal and vertical joints

40	Half brick wall	m2	79	
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41	Facebrick bullnose header paving	m2	140	
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42	Extra over face brickwork on steps	m2	72	
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43	Facebrick pavers laid in stretcher bond pattern	m2	140	
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WATERPROOFING

One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape

44	Under surface beds	m2	434	
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COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS

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Bill No. 10
PAVILION SEATING

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

Item No	Quantity	Rate	Amount
<u>Bill No 11</u>			
<u>MAIN ENTRANCE STEPS AND RAMPS</u>			
<u>EXCAVATION, FILLING, ETC</u>			
<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>			
<u>Excavation in earth exceeding 2m and not exceeding 4m deep</u>			
1	Trenches	m3	190
<u>Extra over trench and hole excavations in earth for excavations in</u>			
2	Soft rock	m3	19
3	Hard rock	m3	10
<u>Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 75% Mod AASHTO density</u>			
4	Exceeding 2m and not exceeding 4m deep for placing and removing formwork to walls etc, 500mm away from excavated face	m2	30
<u>Extra over all excavations for carting away</u>			
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	80
<u>Risk of collapse of excavations</u>			
6	Risk of collapse to sides of excavations	m2	30
<u>Keeping excavations free of water</u>			
7	Keeping excavations free of water other than subterranean water	Item	
<u>FILLING ETC</u>			
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Section No. 7 EXTERNAL WORKS Bill No. 11 MAIN ENTRANCE STEPS AND RAMPS			

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 97% Mod AASHTO density</u>				
8	Backfilling to trenches, holes, etc	m3	110		
9	Under floors, steps, pavings, etc	m3	121		
	<u>Filling of natural gravel material G5 supplied by the contractor, compacted to 97% Mod AASHTO density</u>				
10	Under floors, steps, pavings, etc	m3	121		
	<u>Filling of natural gravel material G7 supplied by the contractor, compacted to 97% Mod AASHTO density</u>				
11	Ramps	m3	68		
	<u>Compaction of surfaces</u>				
12	Compaction of ground surface under pavings, aprons, 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	803		
	<u>WEED KILLERS, INSECTICIDES, ETC</u>				
	<u>Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrasiën 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m²</u>				
13	Under floors, etc including forming and poisoning shallow furrows against foundation walls, etc filling in furrows and ramming	m2	803		
	<u>TESTS</u>				
	<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>				
14	"Modified AASHTO Density" test	No	4		
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
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NEW BUILDINGS AND ANCILLARY SITE WORKS**

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Bill No. 11

MAIN ENTRANCE STEPS AND RAMPS

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Section No. 7

EXTERNAL WORKS

Bill No. 11

MAIN ENTRANCE STEPS AND RAMPS

All Posts and Struts, to:

1. be galvanised mild steel pipe of 2,5mm wall thickness.
2. have 4mm thick pressed steel end caps at top end of pipe
3. have 230 x 230 x 6mm thick base plates welded to pipe
4. have holes drilled for wires in correct positions

Stays

Stays for main posts shall be of 50mm outside diameter x 2.0mm wall thickness pipe and not less than 3000mm long. Stays shall be fixed at an angle of 40 degree to the vertical posts

Line Posts

Line Posts shall be of 75mm outside diameter x 2,5mm wall thickness pipe and 2450mm long overall, consisting of a vertical section 2000mm long and a raking anti-climb section 450mm long, both mitred and welded together at an angle of 45 degree to project 320mm horizontally.

Line posts shall be nine times holed through both walls for wires or bolts.

Line posts shall be erected between the stay posts at intervals of not more than 4 mitres. Line posts shall be so spaced as to present a uniform appearance

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Section No. 7
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Bill No. 12
FENCING

Strainer Posts

Strainer posts shall be of 101,6mm outside diameter x 2,5mm wall thickness pipe and 2600mm long overall, consisting of a vertical section of 2150mm long and a raking anti-climb section of 450mm long both mitred and welded together at an angle of 45 degree so that the anti-climb section projects 320mm horizontally.

Strainer posts shall be nine times holed through both walls for wires or bolts.

Strainer posts shall be supported by two struts and be equally spaced at maximum 50m centres between corner and/or gate posts or to be erected at all points of large change in ground level grade.

Gates or End Posts

These posts shall be of 150mm outside diameter x 2,5mm wall thickness pipe and 2600mm long overall, consisting of a vertical section of 2150mm long and a anti-climb section 450mm long, both mitred and welded together at an angle of 45 degree so that the ant-climb section projects 320mm horizontally.

Gate posts shall be holed eleven times and end posts nine times holed through both walls for wire or bolts.

Posts shall be supported by one strut and be erected at the ends on these fence and/or gates to be fixed on.

Corner Posts

Corner posts shall be 101,6mm outside diameter x 2,5mm wall thickness pipe and 2790mm long overall, consisting of a vertical section of 2150mm long and a raking anti-climb section 640mm long, both mitred and welded together at an angle of 35 degree so that the anti-climb section projects 450mm horizontally.

Posts shall be eighteen time holed through both walls for wires or bolts.

Corner posts to be supported by two struts and be erected at all corners or bends in the fence.

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Section No. 7
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FENCING

**All posts shall be embedded in concrete blocks
not less than the following dimensions:**

1. Struts: 500 x 450 x 750mm deep
2. Line posts: 450 x 450 x 750mm deep
3. Strainer posts: 450 x 450 x 750mm deep
4. Corner, gate or end posts: 450 x 450 x 750mm deep

Concrete shall be Class 15/19

Wire

General

All wire to be galvanised in accordance with SABS 675
Zinc Coated Fencing Wire with Class C (light) zinc
coating.

Strain Wire

Strain Wire to be:

- a. 4mm Diameter mild steel or
- b. 2mm Diameter high tensile steel

Three (no.3) straining wires shall be evenly spaced up
the vertical posts and strained between stayed posts.

The end of the straining wire shall be tied at 12mmmm
diameter straining eye bolt while the other end is taken
twice round the next straining post.

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Barbed wire

All barb wire to be in accordance with SABS CKS 164

Wires to be:

a. Line wire mild steel, 2,5mm diameter twisted double strand

or

b. Line wire high tensile steel, 2,24mm diameter single strand.

Five (no.5) barbed wires shall be fixed at even spacing up the inclined supports to the anti-climb overhang and shall be strained between the stayed straining posts and firmly secured to all posts with 2,0mm diameter mild steel binders.

The barbed wires shall be braced vertically at intervals of not more than 100mm by wire droppers (droppers elsewhere), tied to each barbed wire by 2,0mm diameter mild steel binders

Diamond Mesh

50 x 50 x 2,5mm Carbon hardened galvanised diamond mesh

Straining eyebolts

Eyebolts for fixing the straining rod to the posts shall be of mild steel, 12mm diameter and 306mm long with one end threaded complete with nut and washer.

General

Concrete

Concrete bedding shall be placed in neatly formed excavations and shall be well rammed below and around the posts and stayes. The top of concrete bedding shall be at a level of 25mm below ground level.

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Section No. 7
EXTERNAL WORKS
Bill No. 12
FENCING

Painting

All ungalvanised steelwork or damaged galvanised steelwork to be treated as follows:

After fabrication all steelwork to be thoroughly cleaned, free from rust and scale and painted one coat red lead primer to SABS 312 Type 2 Grade 1 and one coat aluminium finishing paint to SABS 682 Grade 1 specification

Details

Where details are not indicated, construction shall be executed in accordance with SABS CKS 451 "Ant-intruder Fences"

Prices

The unit rate tendered shall include for the supply and delivery of all materials, labour, erection of fence, all clearing earthworks, concrete, shuttering, tools, plant, paintwork and anything further necessary to complete the fence

1.8m high Beta Fence (or equal approved) including excavation for posts, concreting , corner posts, intermediate posts , stays etc

1	Perimeter fence	m	824
2	Fence around Grade R	m	114

Extra over for 1m high spikes consisting of 50x50mm angle iron standards at 300mm c/c with spikes held in place by 50x50mm angle iron top and bottom rail

3	Perimeter fence	m	824
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Gates

Heavy duty hot dipped galvanised and painted double swing gate with 50x50mm square tube frame and 32mm dia x 2mm thick round tube verticals with 100x50mm bottom hanger as per drawing A(50) 4035 Rev A

4	Entrance gate	m	2
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Bill No. 12
FENCING

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Heavy duty hot dipped galvanised and painted single gate size 800x2400mm</u>			
5	Security gate	m	3	
	<u>Steel screen gate size 5000x2400mm</u>			
6	Security screen to Grade R	m	1	
7	D5 motor to sliding gate including electrical connections	m	1	
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COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS

Section No. 7

Bill No. 12

FENCING

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

Item No		Quantity	Rate	Amount
	<u>Bill No 13</u>			
	<u>RETAINING WALLS ,SIGNAGE WALLS, SUBSTRUCTURE WORKS ETC</u>			
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>			
	<u>Excavation in earth not exceeding 2m</u>			
1	Trenches	m3	21	
2	Bases ,lift shafts	m3	176	
	<u>Excavation in earth exceeding 2m and not exceeding 4m deep</u>			
3	Trenches	m3	1 507	
4	Bases ,lift shafts	m3	15	
	<u>Excavation in earth exceeding 4m and not exceeding 6m deep</u>			
5	Trenches	m3	1 412	
	<u>Extra over trench and hole excavations in earth for excavations in</u>			
6	Soft rock	m3	95	
7	Hard rock	m3	48	
	<u>Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to ?% Mod AASHTO density</u>			
8	Exceeding 1m and not exceeding 2m deep for placing and removing formwork to walls etc, 500mm away from excavated face	m2	115	
	Carried to Collection			
	Section No. 7			
	EXTERNAL WORKS			
	Bill No. 13			
	RETAINING WALLS ,SIGNAGE WALLS,ETC			

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

9	Exceeding 2m and not exceeding 4m deep for placing and removing formwork to walls etc, 500mm away from excavated face	m2	2 310
10	Exceeding 4m and not exceeding 6m deep for placing and removing formwork to walls etc, 500mm away from excavated face	m2	2 815
	<u>Extra over all excavations for carting away</u>		
11	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	3 115
	<u>Risk of collapse of excavations</u>		
12	Risk of collapse to sides of excavations	m2	5 220
	<u>Keeping excavations free of water</u>		
13	Keeping excavations free of water other than subterranean water		Item
	<u>FILLING ETC</u>		
	<u>Filling of gravel-soil material G7 supplied by the contractor, compacted to 97% Mod AASHTO density</u>		
14	Underneath retaining walls compacted in 200mm layers	m3	868
15	Sides of retaining walls compacted in 150mm layers	m3	1 206
16	Under column bases and lift shaft	m3	104
	<u>Compaction of surfaces</u>		
17	Compaction of natural or excavated ground surface under footings, 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	887

WEED KILLERS, INSECTICIDES, ETC

Carried to Collection

R

Section No. 7
EXTERNAL WORKS
Bill No. 13
RETAINING WALLS ,SIGNAGE WALLS,ETC

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrasien 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m²</u>		
18	Under floors, etc including forming and poisoning shallow furrows against foundation walls, etc filling in furrows and ramming	m2	908
	<u>TESTS</u>		
	<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>		
19	"Modified AASHTO Density" test	No	50
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>		
	<u>15MPa/19mm reinforced concrete</u>		
20	Surface blinding under footings and bases	m3	46
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>		
	<u>25MPa/19mm concrete</u>		
21	Strip footings	m3	208
22	Cavity infill	m3	136
	<u>30MPa/19mm concrete</u>		
23	Cavity infill	m3	1
24	Bases	m3	35
25	Retaining walls in foundations (Provisional)	m3	83
26	Walls and columns in foundations (provisional)	m3	2
	<u>TEST CUBES</u>		
27	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	30
	Carried to Collection		
	Section No. 7 EXTERNAL WORKS Bill No. 13 RETAINING WALLS ,SIGNAGE WALLS,ETC		

**SMOOTH FORMWORK (DEGREE OF
ACCURACY II)**

Smooth formwork to sides

28	Retaining walls	m2	748
29	Lift shaft walls in foundations	m2	11
30	Stub columns in foundations	m2	13

REINFORCEMENT

Mild steel reinforcement to structural concrete work

31	10mm Diameter bars	t	0.10
32	12mm Diameter bars	t	0.60
33	16mm Diameter bars	t	0.60

High tensile steel reinforcement to structural concrete

34	10mm Diameter bars	t	6.00
35	12mm Diameter bars	t	12.00
36	16mm Diameter bars	t	8.00

Fabric reinforcement

37	Type 311 fabric reinforcement in concrete surface beds etc	m2	22
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PRECAST CONCRETE COPINGS ETC

Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing

38	340 x 100mm Thick overall capping to wall	m	468
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BRICKWORK

FOUNDATIONS (PROVISIONAL)

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EXTERNAL WORKS
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RETAINING WALLS ,SIGNAGE WALLS,ETC

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

Brickwork of NFX bricks (21 MPa nominal compressive strength) in class II mortar

39	One brick walls	m2	35		
40	330mm Reinforced concrete filled walls of two one brick skins of two one brick skins (concrete elsewhere measured)	m2	270		
41	340mm Reinforced concrete filled walls of two one brick skins of two one brick skins (concrete elsewhere measured)	m2	311		
42	300mm Reinforced concrete filled walls of two one brick skins of two one brick skins (concrete elsewhere measured)	m2	4		

Superstructure

43	330mm Reinforced concrete filled walls of two one brick skins of two one brick skins (concrete elsewhere measured)	m2	454		
44	340mm Reinforced concrete filled walls of two one brick skins of two one brick skins (concrete elsewhere measured)	m2	172		
45	One brickwall	m2	5		

BRICKWORK SUNDRIES

46	Closing 110mm cavity of 330mm hollow wall vertically with one course of brickwork at ends	m	10		
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2,5mm Brickwork reinforcement

47	150mm Wide reinforcement built in horizontally	m	2 245		
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FACE BRICKWORK

Corobrik Firelight satin FBX face bricks pointed with flush horizontal and vertical joints

48	Extra over brickwork for face brickwork in foundations	m2	585		
49	Extra over brickwork for face brickwork	m2	626		

DAMPPROOFING OF WALLS AND FLOORS

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EXTERNAL WORKS
Bill No. 13
RETAINING WALLS ,SIGNAGE WALLS,ETC

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Two coats "Brixal" bitumen emulsion waterproof coating</u>		
50	On bagged brick walls	m2	274
51	On back of concrete retaining walls.	m2	331
	<u>Planter waterproofing - drawing A(50) 4019 Rev A</u>		
52	3mm ABE index Unigum to planter	m2	99
53	ABE index defend H Anti rod to planter	m2	148
54	100 x 100 x 4mm gusset ABE index Fidia to Planter	m2	148
55	ABE adedrain 20P	m2	289
	<u>Drainage</u>		
56	110mm HDPE perforated subsoil pipe	m	517
57	A4 bidim wrapping	m	826
58	9mm stone	m3	83

Drainage

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RETAINING WALLS ,SIGNAGE WALLS,ETC

COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS

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RETAINING WALLS ,SIGNAGE WALLS,ETC

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EXTERNAL WORKS

Bill No. 13

RETAINING WALLS ,SIGNAGE WALLS,ETC

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

Item No		Quantity	Rate	Amount
	<u>Bill No 14</u>			
	<u>LAYBY ETC</u>			
	<u>Excavation in earth</u>			
1	Not exceeding 2m deep over site between buildings, retaining walls, etc to reduce levels and stockpile on site for future use	m3	108.00	
	<u>Extra over excavation in earth for breaking up and removing</u>			
2	Material from pavements and fills of existing roads (non cemented material)	m3	22.00	
3	Material from pavements and fills of existing roads (cemented material)	m3	35.00	
4	Unreinforced concrete	m3	5.00	
5	Reinforced concrete	m3	3.00	
	<u>Extra over all excavations for carting away</u>			
6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	55.00	
	<u>Keeping excavations free of water</u>			
7	Keeping excavations free of water other than subterranean water	Item		
	<u>Compaction of surfaces</u>			
8	Compaction of ground surfaces under parking areas etc by wetting and compacting with 12 passes of a 3-sided 25 kilo Joule high energy impact compactor	m2	360.00	
	<u>LAYER WORK</u>			
	<u>Filling supplied by the contractor under parking areas, roadways, etc</u>			
9	G7 gravel-soil material compacted to 97% Mod AASHTO density	m3	54.00	
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Section No. 7 EXTERNAL WORKS Bill No. 14 LAY-BY				

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

10	Subbase course of G5 natural gravel material, compacted to 97% Mod AASHTO density	m3	54.00
11	Base course of G2 graded crushed stone, compacted to 95% of apparent density	m3	54.00
12	Extra over base course of natural gravel material for stabilisation with cement at 3%	m3	54.00
13	Approved weed killer to pavement	m2	360.00
14	Prescribed Modified AASHTO density test on filling.	No	5.00
<u>Bituminous premix road surfacing</u>			
15	40mm thick continuously graded hot premix asphalt	t	36.000
16	Kerb (SABS 927 fig 6) 230 x 125mm high, vertical kerb, <u>25MPa/19mm concrete</u>	m	72.00
17	Edging to kerbs etc	m3	2.00
<u>Road Markings</u>			
<u>Retro-reflective road markings</u>			
<u>White Road markings broken or unbroken</u>			
18	100mm wide	m	72.00
19	150mm wide	m	72.00
20	200mm wide	m	10.00
21	300mm wide	m	10.00
<u>Yellow or Red Road markings broken or unbroken</u>			
22	100mm wide	m	72.00
23	150mm wide	m	10.00
24	200mm wide	m	10.00
25	300mm wide	m	10.00
26	White lettering and symbols	m2	5.00

Carried to Collection

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Section No. 7
EXTERNAL WORKS
Bill No. 14
LAY-BY

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

27	Yellow lettering and symbols	m2	5.00
28	Setting out and premarking lines	m	144.00
<u>Road sign boards sign faces with painted or coloured background .Symbols in semi matt black or Class I engineering grade retro-reflective material where the sign board is constructed from :</u>			
<u>Chromadek 1.6mm thick or equally approved prepainted galvanised steel plate</u>			
29	Area not exceeding 2m2	No	2.00
30	Area exceeding 2m2 but n.e 10m2	No	1.00
31	Area exceeding 10m2	No	1.00
<u>Road sign support</u>			
32	On steel tubing 75mm dia	m	12.00
33	On timber posts 100mm dia	m	12.00
34	Excavation and backfilling for road signs	m3	3.00
35	Extra over for cement treated soil backfill	m3	3.00

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COLLINGWOOD PRIMARY SCHOOL

NEW BUILDINGS AND ANCILLARY SITE WORKS

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Bill No. 14

LAY-BY

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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Bill No. 15

LANDSCAPING

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LANDSCAPING

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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5	WALKWAYS	357		
6	STAIRCASES	361		
7	ROADWORKS	365		
8	SUNDRY WORKS	370		
9	SPOERTSFIELD,COURTYARDS AND ASSEMBLY AREAS	375		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

Item No		Quantity	Rate	Amount
	<u>Electrical Site Services</u>			
	<u>TRENCH EXCAVATIONS FOR ELECTRICAL CABLES & SLEEVES</u>			
	<u>Trenches for LV Power, Cables & Sleeves.</u>			
1	Excavate 300 mm wide x 800 mm deep cable trench in Class C material (earth). NOTE: It is a requirement that trench excavation be done by hand.	m	1 000	
	<u>SABS approved PVC Cable Warning Tape installed above cable in trench.</u>			
2	Supply	m	1 000	
3	Install	m	1 000	
	<u>Sand bedding</u>			
	<u>Import suitable material and install sand bedding to a depth of 75 mm plus sand cover over cables to a depth of 75 mm.</u>			
4	Supply	m	1 000	
5	Install	m	1 000	
	<u>Backfilling</u>			
	<u>Backfill with local material and compact in accordance with the specification.</u>			
6	Install	m	1 000	
7	Extra over for excavation in Class B material (hard). Note that this amount is provisional and shall be expended only if agreed by the Engineer.	m ³	50	
8	Extra over for excavation in Class A material (rock). Note that this amount is provisional and shall be expended only if agreed by the Engineer.	m ³	10	
	<u>DUCTS FOR ELECTRICAL CABLES</u>			
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Section No. 8 ELECTRICAL INSTALLATION Bill No. 1 ELECTRICAL INSTALLATION				

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Supply and install PVC ducts in electrical cable trenches at walkway crossings etc. Excavation measured elsewhere.</u>				
	<u>160 mm diameter</u>				
9	Supply	m	1 000		
10	Install	m	1 000		
	<u>50 mm diameter</u>				
11	Supply	m	100		
12	Install	m	100		
	<u>25 mm diameter</u>				
13	Supply	m	100		
14	Install	m	100		
	<u>Extra over for slow bends in PVC ducts</u>				
	<u>160 mm diameter</u>				
15	Supply	No	8		
16	Install	No	8		
	<u>110 mm diameter</u>				
17	Supply	No	4		
18	Install	No	4		
	<u>50 mm diameter</u>				
19	Supply	No	2		
20	Install	No	2		
	<u>25 mm diameter</u>				
21	Supply	No	4		
22	Install	No	4		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

DRAW CHAMBERS FOR ELECTRICAL CABLES AND SLEEVES

900 x 900 mm draw chamber complete with lid

23	Supply	No	12		
24	Install	No	12		

TRENCH EXCAVATIONS FOR DATA AND COMMUNICATION SLEEVES

Trenches for Data and Communication Sleeves.

25	Excavate 300 mm wide x 800 mm deep cable trench in Class C material (earth). NOTE: It is a requirement that trench excavation be done by hand.	m	1 000		
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SABS approved PVC Cable Warning Tape installed above cable in trench.

26	Supply	m	1 000		
27	Install	m	1 000		

Sand bedding

Import suitable material and install sand bedding to a depth of 75 mm plus sand cover over cables to a depth of 75 mm.

28	Supply	m	1 000		
29	Install	m	1 000		

Backfilling

Backfill with local material and compact in accordance with the specification.

30	Install	m	1 000		
31	Extra over for excavation in Class B material (hard). Note that this amount is provisional and shall be expended only if agreed by the Engineer.	m3	10		
32	Extra over for excavation in Class A material (rock). Note that this amount is provisional and shall be expended only if agreed by the Engineer.	m3	10		

Carried to Collection

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Section No. 8
ELECTRICAL INSTALLATION
Bill No. 1
ELECTRICAL INSTALLATION

DUCTS FOR COMMUNICATION & DATA CABLES

Supply and install PVC ducts in data and communication cable trenches at walkway crossings etc. Excavation measured elsewhere.

50 mm diameter

33	Supply	m	1 000		
----	--------	---	-------	--	--

34	Install	m	1 000		
----	---------	---	-------	--	--

25 mm diameter

35	Supply	m	100		
----	--------	---	-----	--	--

36	Install	m	100		
----	---------	---	-----	--	--

Extra over for slow bends in PVC ducts

50 mm diameter

37	Supply	No	10		
----	--------	----	----	--	--

38	Install	No	10		
----	---------	----	----	--	--

25 mm diameter

39	Supply	No	10		
----	--------	----	----	--	--

40	Install	No	10		
----	---------	----	----	--	--

DRAW CHAMBERS FOR COMMUNICATION AND DATA CABLES AND SLEEVES

600 x 600 mm draw chamber complete with lid

41	Supply	No	10		
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42	Install	No	10		
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PROVISION FOR COMMUNICATIONS & DATA LINKS

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ELECTRICAL INSTALLATION
Bill No. 1
ELECTRICAL INSTALLATION

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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Block 01: Grade R & Ablutions - Electrical Installations

Distribution Board

Supply, test, deliver on site, install and connect electrical distribution boards in accordance with the drawings and specification

Distribution Board DB-01

67	Supply	No	1
68	Install	No	1

Telephone distribution board

Supply and install 600 x 600 mm flush mounted telephone distribution board with wooden backbord and lockable door.

69	Supply	No	1
70	Install	No	1

Conduit and Conduit Accessories

Supply and install PVC conduit

20 mm diameter Installed in ceiling space

71	Supply	m	200
72	Install	m	200

20 mm diameter built into wall

73	Supply	m	200
74	Install	m	200

Supply and install conduit boxes.

100mm x 100mm steel box flush mounted in face brick wall

75	Supply	No	32
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Section No. 8
ELECTRICAL INSTALLATION
Bill No. 1
ELECTRICAL INSTALLATION

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

76	Install	No	32
	<u>100mm x 50mm steel box flush mounted in wall</u>		
77	Supply	No	10
78	Install	No	10
	<u>Round steel box flush mounted in wall</u>		
79	Supply	No	10
80	Install	No	10
	<u>Round PVC conduit box installed in ceiling space</u>		
81	Supply	No	18
82	Install	No	18
	<u>Conductors</u>		
	<u>Supply and install copper PVC insulated conductors in wireways</u>		
	<u>1.5 sq mm</u>		
83	Supply	m	300
84	Install	m	300
	<u>2.5 sq mm</u>		
85	Supply	m	400
86	Install	m	400
	<u>Supply and install bare copper earth conductors in wireways</u>		
	<u>1.5 sq mm</u>		
87	Supply	m	150
88	Install	m	150

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ELECTRICAL INSTALLATION
Bill No. 1
ELECTRICAL INSTALLATION

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Supply and install Schneider Electric ceiling mounted line voltage occupancy sensor (SLSCLD 2000) or approved equivalent</u>				
109	Supply	No	20		
110	Install	No	20		
	<u>Photocell</u>				
	<u>Supply and install Royce Thompson Monostar 2000 photocell or approved equivalent installed into polycarb rectangular bulkhead with clear lens</u>				
111	Supply	No	1		
112	Install	No	1		
	<u>Earthing & bonding.</u>				
113	Supply and Install			SUM	
	<u>Testing, commissioning and provision of Certificate of Compliance</u>				
114	Supply and Install			SUM	
	<u>Block 02: Grade 1- Electrical Installations</u>				
	<u>Distribution Board</u>				
	<u>Supply, test, deliver on site, install and connect electrical distribution boards in accordance with the drawings and specification</u>				
	<u>Distribution Board DB-02</u>				
115	Supply	No	1		
116	Install	No	1		
	<u>Telephone distribution board</u>				
	<u>Supply and install 600 x 600 mm flush mounted telephone distribution board with wooden backbord and lockable door.</u>				
117	Supply	No	1		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

118	Install	No	1		
<u>Conduit and Conduit Accessories</u>					
<u>Supply and install PVC conduit</u>					
<u>20 mm diameter Installed in ceiling space</u>					
119	Supply	m	200		
120	Install	m	200		
<u>20 mm diameter built into wall</u>					
121	Supply	m	200		
122	Install	m	200		
<u>Supply and install conduit boxes.</u>					
<u>100mm x 50mm steel box flush mounted in wall</u>					
123	Supply	No	6		
124	Install	No	6		
<u>Round steel box flush mounted in wall</u>					
125	Supply	No	38		
126	Install	No	38		
<u>Round PVC conduit box installed in ceiling space</u>					
127	Supply	No	20		
128	Install	No	20		
<u>Conductors</u>					
<u>Supply and install copper PVC insulated conductors in wireways</u>					
<u>1.5 sq mm</u>					
129	Supply	m	500		
130	Install	m	500		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>2.5 sq mm</u>				
131	Supply	m	300		
132	Install	m	300		
	<u>Supply and install bare copper earth conductors in wireways</u>				
	<u>1.5 sq mm</u>				
133	Supply	m	100		
134	Install	m	100		
	<u>2.5 sq mm</u>				
135	Supply	m	150		
136	Install	m	150		
	<u>Switches</u>				
	<u>Supply and install light switches complete with screwed metal cover plates in conduit boxes. Crabtree Classic or approved equivalent</u>				
	<u>2-lever 1-way</u>				
137	Supply	No	4		
138	Install	No	4		
	<u>Plug Outlets</u>				
	<u>Supply, deliver, accept, fix, connect and commission the following equipment complete with metal covers and metal screws.</u>				
	<u>20A double pole lockable isolator in conduit box</u> <u>Crabtree Classic or approved equivalent</u>				
139	Supply	No	15		
140	Install	No	15		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>16A 3pin ZA / Euro Combo Crabtree Classic switch socket outlet or approved equivalent in conduit box</u>				
141	Supply	No	12		
142	Install	No	12		
	<u>Data Outlets</u>				
	<u>RJ 45 outlets</u>				
	<u>Supply, install and connect Molex CAT 5e RJ 45 flush type outlets in dual wall boxes installed in conduit box</u>				
143	Supply	No	6		
144	Install	No	6		
	<u>Supply, install and connect Molex RJ 11 flush type outlets in dual wall boxes installed in conduit box</u>				
145	Supply	No	6		
146	Install	No	6		
	<u>Light Fittings</u>				
	<u>Supply, deliver, install, test and commission SABS approved light fittings complete with lamps</u>				
	<u>Note: Include for timber supports wherever necessary</u>				
	<u>Type B3: Lighting Innovations 43W Aztek III, LED Linear surface mount fitting, IP40, 4760 Lumens 4000k 1163 mm with integral driver, non dimmable or approved equivalent.</u>				
147	Supply	No	28		
148	Install	No	28		
	<u>Type C1: FLO Medium 10W LED Spazio Lighting or approved equivalent.</u>				
149	Supply	No	6		
150	Install	No	6		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Supply, test, deliver on site, install and connect electrical distribution boards in accordance with the drawings and specification</u>			
	Distribution Board DB-03			
161	Supply	No	1	
162	Install	No	1	
	<u>Telephone distribution board</u>			
	<u>Supply and install 600 x 600 mm flush mounted telephone distribution board with wooden backbord and lockable door.</u>			
163	Supply	No	1	
164	Install	No	1	
	<u>Conduit and Conduit Accessories</u>			
	<u>Supply and install PVC conduit</u>			
	<u>20 mm diameter Installed in ceiling space</u>			
165	Supply	m	200	
166	Install	m	200	
	<u>20 mm diameter built into wall</u>			
167	Supply	m	200	
168	Install	m	200	
	<u>Supply and install conduit boxes.</u>			
	<u>100mm x 100mm steel box flush mounted in face brick wall</u>			
169	Supply	No	10	
170	Install	No	10	
	<u>100mm x 50mm steel box flush mounted in wall</u>			
171	Supply	No	8	
Carried to Collection			R	
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

[illegible]

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Supply and install light switches complete with screwed metal cover plates in conduit boxes. Crabtree Classic or approved equivalent</u>				
	<u>2-lever 1-way</u>				
185	Supply	No	4		
186	Install	No	4		
	<u>Plugs Outlets</u>				
	<u>Supply, deliver, accept, fix, connect and commission the following equipment complete with metal covers and metal screws.</u>				
	<u>20A double pole lockable isolator in conduit box Crabtree Classic or approved equivalent</u>				
187	Supply	No	12		
188	Install	No	12		
	<u>16A 3pin ZA / Euro Combo Crabtree Classic switch socket outlet or approved equivalent in conduit box</u>				
189	Supply	No	8		
190	Install	No	8		
	<u>Data Outlets</u>				
	<u>RJ 45 outlets</u>				
	<u>Supply, install and connect Molex CAT 5e RJ 45 flush type outlets in dual wall boxes installed in conduit box</u>				
191	Supply	No	4		
192	Install	No	4		
	<u>Supply, install and connect Molex RJ 11 flush type outlets in dual wall boxes installed in conduit box</u>				
193	Supply	No	4		
194	Install	No	4		
	Carried to Collection			R	
	Section No. 8 ELECTRICAL INSTALLATION Bill No. 1 ELECTRICAL INSTALLATION				

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Light Fittings</u>			
	<u>Supply, deliver, install, test and commission SABS approved light fittings complete with lamps</u>			
	<u>Note: Include for timber supports wherever necessary</u>			
	Type B3: Lighting Innovations 43W Aztek III, LED Linear surface mount fitting, IP40, 4760 Lumens 4000k 1163 mm with integral driver, non dimmable or approved equivalent.			
195	Supply	No	24	
196	Install	No	24	
	Type EXIT: Self illuminating (Non-powered) EXIT sign with running man pictograph as manufactured by Ikwezi Signs or approved equivalent			
197	Supply	No	2	
198	Install	No	2	
	<u>Occupancy Sensors</u>			
	Supply and install Schneider Electric ceiling mounted line voltage occupancy sensor (SLSCLD 2000) or approved equivelant			
199	Supply	No	8	
200	Install	No	8	
	<u>Photocell</u>			
	Supply and install Royce Thompson Monostar 2000 photocell or approved equivelant installed into polycarb rectangular bulkhead with clear lens			
201	Supply	No	1	
202	Install	No	1	
	<u>Earthing & bonding.</u>			
203	Supply and Install			SUM
				R
	Carried to Collection			
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	<u>Testing, commissioning and provision of Certificate of Compliance</u>								
204	Supply and Install							SUM	
<u>Block 04: Grade 3 & HOD - Electrical Installations</u>									
<u>Distribution Board</u>									
<u>Supply, test, deliver on site, install and connect electrical distribution boards in accordance with the drawings and specification</u>									
<u>Distribution Board DB-04</u>									
205	Supply	No		1					
206	Install	No		1					
<u>Telephone distribution board</u>									
<u>Supply and install 600 x 600 mm flush mounted telephone distribution board with wooden backbord and lockable door.</u>									
207	Supply	No		1					
208	Install	No		1					
<u>Conduit and Conduit Accessories</u>									
<u>Supply and install PVC conduit</u>									
<u>20 mm diameter Installed in ceiling space</u>									
209	Supply	m		200					
210	Install	m		200					
<u>20 mm diameter built into wall</u>									
211	Supply	m		200					
212	Install	m		200					
<u>Supply and install conduit boxes.</u>									
								</	

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>100mm x 100mm steel box flush mounted in face brick wall</u>				
213	Supply	No	19		
214	Install	No	19		
	<u>100mm x 50mm steel box flush mounted in wall</u>				
215	Supply	No	8		
216	Install	No	8		
	<u>Round steel box flush mounted in wall</u>				
217	Supply	No	10		
218	Install	No	10		
	<u>Round PVC conduit box installed in ceiling space</u>				
219	Supply	No	20		
220	Install	No	20		
	<u>Conductors</u>				
	<u>Supply and install copper PVC insulated conductors in wireways</u>				
	<u>1.5 sq mm</u>				
221	Supply	m	200		
222	Install	m	200		
	<u>2.5 sq mm</u>				
223	Supply	m	400		
224	Install	m	400		
	<u>Supply and install bare copper earth conductors in wireways</u>				
	<u>1.5 sq mm</u>				
225	Supply	m	100		
Carried to Collection				R	
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

226	Install	m	100		
	<u>2.5 sq mm</u>				
227	Supply	m	150		
228	Install	m	150		
	<u>Switches</u>				
	<u>Supply and install light switches complete with screwed metal cover plates in conduit boxes. Crabtree Classic or approved equivalent</u>				
	<u>2-lever 1-way</u>				
229	Supply	No	4		
230	Install	No	4		
	<u>Outlets</u>				
	<u>Supply, deliver, accept, fix, connect and commission the following equipment complete with metal covers and metal screws.</u>				
	<u>20A double pole lockable isolator in conduit box Crabtree Classic or approved equivalent</u>				
231	Supply	No	15		
232	Install	No	15		
	<u>16A 3pin ZA / Euro Combo Crabtree Classic switch socket outlet or approved equivalent in conduit box</u>				
233	Supply	No	12		
234	Install	No	12		
	<u>Data Outlets</u>				
	<u>RJ 45 outlets</u>				
	<u>Supply, install and connect Molex CAT 5e RJ 45 flush type outlets in dual wall boxes installed in conduit box</u>				
235	Supply	No	6		
Carried to Collection				R	
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

[illegible]

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Supply and install Royce Thompson Monostar 2000 photocell or approved equivalent installed into polycarb rectangular bulkhead with clear lens</u>				
245	Supply	No	1		
246	Install	No	1		
	<u>Earthing & bonding.</u>				
247	Supply and Install			SUM	
	<u>Testing, commissioning and provision of Certificate of Compliance</u>				
248	Supply and Install			SUM	
	<u>Block 05:Library - Electrical Installations</u>				
	<u>Distribution Board</u>				
	<u>Supply, test, deliver on site, install and connect electrical distribution boards in accordance with the drawings and specification</u>				
	<u>Distribution Board DB-05</u>				
249	Supply	No	1		
250	Install	No	1		
	<u>Telephone distribution board</u>				
	<u>Supply and install 600 x 600 mm flush mounted telephone distribution board with wooden backbord and lockable door.</u>				
251	Supply	No	1		
252	Install	No	1		
	<u>Conduit and Conduit Accessories</u>				
	<u>Supply and install PVC conduit</u>				
	<u>20 mm diameter Installed in ceiling space</u>				
253	Supply	m	200		
	Carried to Collection			R	
	Section No. 8 ELECTRICAL INSTALLATION Bill No. 1 ELECTRICAL INSTALLATION				

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

254	Install	m	200	
	<u>20 mm diameter built into wall</u>			
255	Supply	m	100	
256	Install	m	100	
	<u>Supply and install conduit boxes.</u>			
	<u>100mm x 100mm steel box flush mounted in face brick wall</u>			
257	Supply	No	26	
258	Install	No	26	
	<u>100mm x 50mm steel box flush mounted in wall</u>			
259	Supply	No	6	
260	Install	No	6	
	<u>Round steel box flush mounted in wall</u>			
261	Supply	No	14	
262	Install	No	14	
	<u>Round PVC conduit box installed in ceiling space</u>			
263	Supply	No	16	
264	Install	No	16	
	<u>Conductors</u>			
	<u>Supply and install copper PVC insulated conductors in wireways</u>			
	<u>1.5 sq mm</u>			
265	Supply	m	200	
266	Install	m	200	
Carried to Collection				R
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>2.5 sq mm</u>				
267	Supply	m	250		
268	Install	m	250		
	<u>Supply and install bare copper earth conductors in wireways</u>				
	<u>1.5 sq mm</u>				
269	Supply	m	100		
270	Install	m	100		
	<u>2.5 sq mm</u>				
271	Supply	m	150		
272	Install	m	150		
	<u>Switches</u>				
	<u>Supply and install light switches complete with screwed metal cover plates in conduit boxes. Crabtree Classic or approved equivalent</u>				
	<u>3-lever 2-way</u>				
273	Supply	No	3		
274	Install	No	3		
	<u>Outlets</u>				
	<u>Supply, deliver, accept, fix, connect and commission the following equipment complete with metal covers and metal screws.</u>				
	<u>20A double pole lockable isolator in conduit box Crabtree Classic or approved equivalent</u>				
275	Supply	No	6		
276	Install	No	6		
	Carried to Collection				
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				R	

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Supply, deliver, accept, fix, connect and commission the following equipment complete with metal covers and metal screws.</u>				
	<u>16A 3pin ZA / Euro Combo Crabtree Classic switch socket outlet or approved equivalent in conduit box</u>				
277	Supply	No	15		
278	Install	No	15		
	<u>Data Outlets</u>				
	<u>RJ 45 outlets</u>				
	<u>Supply, install and connect Molex CAT 5e RJ 45 flush type outlets in dual wall boxes installed in conduit box</u>				
279	Supply	No	10		
280	Install	No	10		
	<u>Supply, install and connect Molex RJ 11 flush type outlets in dual wall boxes installed in conduit box</u>				
281	Supply	No	10		
282	Install	No	10		
	<u>Light Fittings</u>				
	<u>Supply, deliver, install, test and commission SABS approved light fittings complete with lamps</u>				
	<u>Note: Include for timber supports wherever necessary</u>				
	<u>Type B3: Lighting Innovations 43W Aztek III, LED Linear surface mount fitting, IP40, 4760 Lumens 4000k 1163 mm with integral driver, non dimmable or approved equivalent.</u>				
283	Supply	No	12		
284	Install	No	12		
	Carried to Collection				
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				R	

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	Type B6: 1200 mm (4ft) long dust / vapour proof luminaire with 25W LED lamps. Lighting Innovations or approved equivalent.				
285	Supply	No	3		
286	Install	No	3		
	<u>Occupancy Sensors</u>				
	Supply and install Schneider Electric ceiling mounted line voltage occupancy sensor (SLSCLD 2000) or approved equivalent				
287	Supply	No	11		
288	Install	No	11		
	<u>Photocell</u>				
	Supply and install Royce Thompson Monostar 2000 photocell or approved equivalent installed into polycarb rectangular bulkhead with clear lens				
289	Supply	No	1		
290	Install	No	1		
	<u>Earthing & bonding.</u>				
291	Supply and Install			SUM	
	<u>Testing, commissioning and provision of Certificate of Compliance</u>				
292	Supply and Install			SUM	
	<u>Block 06: 3 Multipurpose Room, Computer & Ablutions - Electrical Installations</u>				
	<u>Distribution Board</u>				
	<u>Supply, test, deliver on site, install and connect electrical distribution boards in accordance with the drawings and specification</u>				
	<u>Distribution Board DB-06</u>				
293	Supply	No	1		
	Carried to Collection			R	
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

294	Install	No	1		
	<u>Telephone distribution board</u>				
	<u>Supply and install 600 x 600 mm flush mounted telephone distribution board with wooden backbord and lockable door.</u>				
295	Supply	No	1		
296	Install	No	1		
	<u>Conduit and Conduit Accessories</u>				
	<u>Supply and install PVC conduit</u>				
	<u>20 mm diameter Installed in ceiling space</u>				
297	Supply	m	450		
298	Install	m	450		
	<u>20 mm diameter built into wall</u>				
299	Supply	m	200		
300	Install	m	200		
	<u>Supply and install conduit boxes.</u>				
	<u>100mm x 100mm steel box flush mounted in face brick wall</u>				
301	Supply	No	22		
302	Install	No	22		
	<u>100mm x 50mm steel box flush mounted in wall</u>				
303	Supply	No	6		
304	Install	No	6		
	<u>Round steel box flush mounted in wall</u>				
305	Supply	No	14		
306	Install	No	14		
	Carried to Collection				
	Section No. 8				
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Round PVC conduit box installed in ceiling space</u>			
307	Supply	No	20	
308	Install	No	20	
	<u>Conductors</u>			
	<u>Supply and install copper PVC insulated conductors in wireways</u>			
	<u>1.5 sq mm</u>			
309	Supply	m	400	
310	Install	m	400	
	<u>2.5 sq mm</u>			
311	Supply	m	400	
312	Install	m	400	
	<u>Supply and install bare copper earth conductors in wireways</u>			
	<u>1.5 sq mm</u>			
313	Supply	m	150	
314	Install	m	150	
	<u>2.5 sq mm</u>			
315	Supply	m	200	
316	Install	m	200	
	<u>Switches</u>			
	<u>Supply and install light switches complete with screwed metal cover plates in conduit boxes. Crabtree Classic or approved equivalent</u>			
	<u>1-lever 2-way</u>			
317	Supply	No	6	
	Carried to Collection			R
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

318	Install	No	6	
	<u>Outlets</u> <u>Supply, deliver, accept, fix, connect and commission the following equipment complete with metal covers and metal screws.</u> <u>20A double pole lockable isolator in conduit box</u> <u>Crabtree Classic or approved equivalent</u>			
319	Supply	No	26	
320	Install	No	26	
	<u>Supply, deliver, accept, fix, connect and commission the following equipment complete with metal covers and metal screws.</u> <u>16A 3pin ZA / Euro Combo Crabtree Classic switch socket outlet or approved equivalent in conduit box</u>			
321	Supply	No	28	
322	Install	No	28	
	<u>Data Outlets</u> <u>RJ 45 outlets</u> <u>Supply, install and connect Molex CAT 5e RJ 45 flush type outlets in dual wall boxes installed in conduit box</u>			
323	Supply	No	20	
324	Install	No	20	
	<u>Supply, install and connect Molex RJ 11 flush type outlets in dual wall boxes installed in conduit box</u>			
325	Supply	No	20	
326	Install	No	20	
	<u>Light Fittings</u>			
	Carried to Collection			R
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<u>Supply, deliver, install, test and commission SABS approved light fittings complete with lamps</u>			
<u>Note: Include for timber supports wherever necessary</u>			
<u>Type B3: Lighting Innovations 39W Aztek III, LED Linear surface mount fitting, IP40, 4760 Lumens 4000k 1163 mm with integral driver, non dimmable or approved equivalent.</u>			
327	Supply	No	36
328	Install	No	36
<u>Type C1: FLO Medium 10W LED Spazio Lighting or approved equivalent.</u>			
329	Supply	No	25
330	Install	No	25
<u>Type B6: 1200 mm (4ft) long dust / vapour proof luminaire with 25W LED lamps. Lighting Innovations or approved equivalent.</u>			
331	Supply	No	8
332	Install	No	8
<u>Supply and install Schneider Electric ceiling mounted line voltage occupancy sensor (SLSCLD 2000) or approved equivalent</u>			
333	Supply	No	16
334	Install	No	16
<u>Photocell</u>			
<u>Supply and install Royce Thompson Monostar 2000 photocell or approved equivalent installed into polycarb rectangular bulkhead with clear lens</u>			
335	Supply	No	1
336	Install	No	1
Carried to Collection			R
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Earthing & bonding.</u>				
337	Supply and Install			SUM	
	<u>Testing, commissioning and provision of Certificate of Compliance</u>				
338	Supply and Install			SUM	
	<u>Block 07: Grade 07 & HOD - Electrical Installations</u>				
	<u>Distribution Board</u>				
	<u>Supply, test, deliver on site, install and connect electrical distribution boards in accordance with the drawings and specification</u>				
	<u>Distribution Board DB-07</u>				
339	Supply	No	1		
340	Install	No	1		
	<u>Telephone distribution board</u>				
	<u>Supply and install 600 x 600 mm flush mounted telephone distribution board with wooden backbord and lockable door.</u>				
341	Supply	No	1		
342	Install	No	1		
	<u>Conduit and Conduit Accessories</u>				
	<u>Supply and install PVC conduit</u>				
	<u>20 mm diameter Installed in ceiling space</u>				
343	Supply	m	200		
344	Install	m	200		
	<u>20 mm diameter built into wall</u>				
345	Supply	m	200		
	Carried to Collection			R	
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

346	Install	m	200	
	<u>Supply and install conduit boxes.</u>			
	<u>100mm x 100mm steel box flush mounted in face brick wall</u>			
347	Supply	No	24	
348	Install	No	24	
	<u>100mm x 50mm steel box flush mounted in wall</u>			
349	Supply	No	5	
350	Install	No	5	
	<u>Round steel box flush mounted in wall</u>			
351	Supply	No	13	
352	Install	No	13	
	<u>Round PVC conduit box installed in ceiling space</u>			
353	Supply	No	20	
354	Install	No	20	
	<u>Conductors</u>			
	<u>Supply and install copper PVC insulated conductors in wireways</u>			
	<u>1.5 sq mm</u>			
355	Supply	m	200	
356	Install	m	200	
	<u>2.5 sq mm</u>			
357	Supply	m	400	
358	Install	m	400	
	<u>Supply and install bare copper earth conductors in wireways</u>			
	Carried to Collection			R
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>1.5 sq mm</u>				
359	Supply	m	100		
360	Install	m	100		
	<u>2.5 sq mm</u>				
361	Supply	m	150		
362	Install	m	150		
	<u>Switches</u>				
	<u>Supply and install light switches complete with screwed metal cover plates in conduit boxes. Crabtree Classic or approved equivalent</u>				
	<u>2-lever 1-way</u>				
363	Supply	No	4		
364	Install	No	4		
	<u>Outlets</u>				
	<u>Supply, deliver, accept, fix, connect and commission the following equipment complete with metal covers and metal screws.</u>				
	<u>Supply, deliver, accept, fix, connect and commission the following equipment complete with metal covers and metal screws.</u>				
	<u>20A double pole lockable isolator in conduit box Crabtree Classic or approved equivalent</u>				
365	Supply	No	15		
366	Install	No	15		
	<u>16A 3pin ZA / Euro Combo Crabtree Classic switch socket outlet or approved equivalent in conduit box</u>				
367	Supply	No	12		
368	Install	No	12		
	Carried to Collection			R	
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

Data Outlets

RJ 45 outlets

Supply, install and connect Molex CAT 5e RJ 45 flush type outlets in dual wall boxes installed in conduit box

369	Supply	No	6		
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370	Install	No	6		
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Supply, install and connect Molex RJ 11 flush type outlets in dual wall boxes installed in conduit box

371	Supply	No	6		
-----	--------	----	---	--	--

372	Install	No	6		
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Light Fittings

Supply, deliver, install, test and commission SABS approved light fittings complete with lamps

Note: Include for timber supports wherever necessary

Type B3: Lighting Innovations 43W Aztek III, LED Linear surface mount fitting, IP40, 4760 Lumens 4000k 1163 mm with integral driver, non dimmable or approved equivalent.

373	Supply	No	28		
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374	Install	No	28		
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Occupancy Sensors

Supply and install Schneider Electric ceiling mounted line voltage occupancy sensor (SLSCLD 2000) or approved equivalent

375	Supply	No	10		
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376	Install	No	10		
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Photocell

Carried to Collection

R

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

[illegible]

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>20 mm diameter Installed in ceiling space</u>				
385	Supply	m	400		
386	Install	m	400		
	<u>20 mm diameter built into wall</u>				
387	Supply	m	250		
388	Install	m	250		
	<u>Supply and install conduit boxes.</u>				
	<u>100mm x 100mm steel box flush mounted in face brick wall</u>				
389	Supply	No	26		
390	Install	No	26		
	<u>100mm x 50mm steel box flush mounted in wall</u>				
391	Supply	No	9		
392	Install	No	9		
	<u>Round steel box flush mounted in wall</u>				
393	Supply	No	16		
394	Install	No	16		
	<u>Round PVC conduit box installed in ceiling space</u>				
395	Supply	No	24		
396	Install	No	24		
	<u>Conductors</u>				
	<u>Supply and install copper PVC insulated conductors in wireways</u>				
	<u>1.5 sq mm</u>				
397	Supply	m	300		
Carried to Collection				R	
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

[illegible]

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

[illegible]

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

[illegible]

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

[illegible]

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>100mm x 100mm steel box flush mounted in face brick wall</u>				
437	Supply	No	28		
438	Install	No	28		
	<u>100mm x 50mm steel box flush mounted in wall</u>				
439	Supply	No	8		
440	Install	No	8		
	<u>Round steel box flush mounted in wall</u>				
441	Supply	No	15		
442	Install	No	15		
	<u>Round PVC conduit box installed in ceiling space</u>				
443	Supply	No	20		
444	Install	No	20		
	<u>Conductors</u>				
	<u>Supply and install copper PVC insulated conductors in wireways</u>				
	<u>1.5 sq mm</u>				
445	Supply	m	200		
446	Install	m	200		
	<u>2.5 sq mm</u>				
447	Supply	m	300		
448	Install	m	300		
	<u>Supply and install bare copper earth conductors in wireways</u>				
	<u>1.5 sq mm</u>				
449	Supply	m	100		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

450	Install	m	100		
	<u>2.5 sq mm</u>				
451	Supply	m	100		
452	Install	m	100		
	<u>Switches</u>				
	<u>Supply and install light switches complete with screwed metal cover plates in conduit boxes. Crabtree Classic or approved equivalent</u>				
	<u>2-lever 1-way</u>				
453	Supply	No	1		
454	Install	No	1		
	<u>Supply, deliver, accept, fix, connect and commission the following equipment complete with metal covers and metal screws.</u>				
	<u>20A double pole lockable isolator in conduit box Crabtree Classic or approved equivalent</u>				
455	Supply	No	15		
456	Install	No	15		
	<u>16A 3pin ZA / Euro Combo Crabtree Classic switch socket outlet or approved equivalent in conduit box</u>				
457	Supply	No	10		
458	Install	No	10		
	<u>Data Outlets</u>				
	<u>RJ 45 outlets</u>				
	<u>Supply, install and connect Molex CAT 5e RJ 45 flush type outlets installed on power skirting</u>				
459	Supply	No	8		
460	Install	No	8		
Carried to Collection				R	
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

[illegible]

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Supply and install Royce Thompson Monostar 2000 photocell or approved equivalent installed into polycarb rectangular bulkhead with clear lens</u>				
469	Supply	No	1		
470	Install	No	1		
	<u>Earthing & bonding.</u>				
471	Supply and Install			SUM	
	<u>Testing, commissioning and provision of Certificate of Compliance</u>				
472	Supply and Install			SUM	
	<u>Block 10: Kitchen</u>				
	<u>Distribution Board</u>				
	<u>Supply, test, deliver on site, install and connect electrical distribution boards in accordance with the drawings and specification</u>				
	<u>Distribution Board DB-09</u>				
473	Supply	No	1		
474	Install	No	1		
	<u>Telephone distribution board</u>				
	<u>Supply and install 600 x 600 mm flush mounted telephone distribution board with wooden backbord and lockable door.</u>				
475	Supply	No	1		
476	Install	No	1		
	<u>Conduit and Conduit Accessories</u>				
	<u>Supply and install PVC conduit</u>				
	<u>20 mm diameter Installed in ceiling space</u>				
477	Supply	m	150		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

478	Install	m	150
	<u>20 mm diameter built into wall / floor</u>		
479	Supply	m	100
480	Install	m	100
	<u>Supply and install conduit boxes.</u>		
	<u>100mm x 100mm steel box flush mounted in face brick wall</u>		
481	Supply	No	28
482	Install	No	28
	<u>100mm x 50mm steel box flush mounted in wall</u>		
483	Supply	No	8
484	Install	No	8
	<u>Round steel box flush mounted in wall</u>		
485	Supply	No	15
486	Install	No	15
	<u>Round PVC conduit box installed in ceiling space</u>		
487	Supply	No	20
488	Install	No	20
	<u>Conductors</u>		
	<u>Supply and install copper PVC insulated conductors in wireways</u>		
	<u>1.5 sq mm</u>		
489	Supply	m	200
490	Install	m	200

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	<u>2.5 sq mm</u>				
491	Supply	m	300		
492	Install	m	300		
	<u>Supply and install bare copper earth conductors in wireways</u>				
	<u>1.5 sq mm</u>				
493	Supply	m	100		
494	Install	m	100		
	<u>2.5 sq mm</u>				
495	Supply	m	150		
496	Install	m	150		
	<u>Switches</u>				
	<u>Supply and install light switches complete with screwed metal cover plates in conduit boxes. Crabtree Classic or approved equivalent</u>				
	<u>2-lever 1-way</u>				
497	Supply	No	2		
498	Install	No	2		
	<u>Supply, deliver, accept, fix, connect and commission the following equipment complete with metal covers and metal screws.</u>				
	<u>20A double pole lockable isolator in conduit box Crabtree Classic or approved equivalent</u>				
499	Supply	No	10		
500	Install	No	10		
	<u>30A Tripple pole lockable isolator in conduit box Crabtree Classic or approved equivalent</u>				
501	Supply	No	8		
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502	Install	No	8	
	<u>16A 3pin ZA / Euro Combo Crabtree Classic switch socket outlet or approved equivalent in conduit box</u>			
503	Supply	No	6	
504	Install	No	6	
	<u>Data Outlets</u>			
	<u>RJ 45 outlets</u>			
	<u>Supply, install and connect Molex CAT 5e RJ 45 flush type outlets installed on power skirting</u>			
505	Supply	No	1	
506	Install	No	1	
	<u>Supply, install and connect Molex RJ 11 flush type outlets in dual wall boxes installed in conduit box</u>			
507	Supply	No	1	
508	Install	No	1	
	<u>Light Fittings</u>			
	<u>Supply, deliver, install, test and commission SABS approved light fittings complete with lamps</u>			
	<u>Note: Include for timber supports wherever necessary</u>			
	<u>Type C1: FLO Medium 10W LED Spazio Lighting or approved equivalent.</u>			
509	Supply	No	1	
510	Install	No	1	
	<u>Type B6: 1200 mm (4ft) long dust / vapour proof luminaire with 25W LED lamps. Lighting Innovations or approved equivalent.</u>			
511	Supply	No	10	
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**COLLINGWOOD PRIMARY SCHOOL
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Supply and install 600 x 600 mm flush mounted telephone distribution board with wooden backbord and lockable door.</u>				
521	Supply	No	1		
522	Install	No	1		
	<u>Conduit and Conduit Accessories</u>				
	<u>Supply and install PVC conduit</u>				
	<u>20 mm diameter Installed in ceiling space</u>				
523	Supply	m	150		
524	Install	m	150		
	<u>20 mm diameter built into wall / floor</u>				
525	Supply	m	100		
526	Install	m	100		
	<u>Supply and install conduit boxes.</u>				
	<u>100mm x 100mm steel box flush mounted in face brick wall</u>				
527	Supply	No	28		
528	Install	No	28		
	<u>100mm x 50mm steel box flush mounted in wall</u>				
529	Supply	No	8		
530	Install	No	8		
	<u>Round steel box flush mounted in wall</u>				
531	Supply	No	15		
532	Install	No	15		
	<u>Round PVC conduit box installed in ceiling space</u>				
533	Supply	No	20		
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**COLLINGWOOD PRIMARY SCHOOL
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534	Install	No	20
	<u>Conductors</u>		
	<u>Supply and install copper PVC insulated conductors in wireways</u>		
	<u>1.5 sq mm</u>		
535	Supply	m	400
536	Install	m	400
	<u>2.5 sq mm</u>		
537	Supply	m	600
538	Install	m	600
	<u>Supply and install bare copper earth conductors in wireways</u>		
	<u>1.5 sq mm</u>		
539	Supply	m	200
540	Install	m	200
	<u>2.5 sq mm</u>		
541	Install	m	220
	<u>Switches</u>		
	<u>Supply and install light switches complete with screwed metal cover plates in conduit boxes. Crabtree Classic or approved equivalent</u>		
	<u>2-lever 1-way</u>		
542	Supply	No	12
543	Install	No	12
	<u>Supply, deliver, accept, fix, connect and commission the following equipment complete with metal covers and metal screws.</u>		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	Type B3: Lighting Innovations 43W Aztek III, LED Linear surface mount fitting, IP40, 4760 Lumens 4000k 1163 mm with integral driver, non dimmable or approved equivalent.				
553	Supply	No	72		
554	Install	No	72		
	Type C1: FLO Medium 10W LED Spazio Lighting or approved equivalent.				
555	Supply	No	20		
556	Install	No	20		
	Type B6: 1200 mm (4ft) long dust / vapour proof luminaire with 25W LED lamps. Lighting Innovations or approved equivalent.				
557	Supply	No	2		
558	Install	No	2		
	Occupancy Sensors				
	Supply and install Schneider Electric ceiling mounted line voltage occupancy sensor (SLSCLD 2000) or approved equivalent				
559	Supply	No	24		
560	Install	No	24		
	Photocell				
	Supply and install Royce Thompson Monostar 2000 photocell or approved equivalent installed into polycarb rectangular bulkhead with clear lens				
561	Supply	No	1		
562	Install	No	1		
	<u>Earthing & bonding.</u>				
563	Supply and Install			SUM	
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**COLLINGWOOD PRIMARY SCHOOL
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	<u>Testing, commissioning and provision of Certificate of Compliance</u>				
564	Supply and Install				SUM
	<u>Power Skirting</u>				
	<u>Supply and install on wall 2 compartment 2 cover steel power skirting complete with end stops and duct dividers. Cabstrut N8/P801 or approved equivalent</u>				
565	Supply	m	130		
566	Install	m	130		
	<u>Outlets</u>				
	<u>Supply, deliver, accept, fix, connect and commission the following equipment complete with metal covers and metal screws.</u>				
	<u>16A 3 pin socket outlet in skirting trunking</u>				
567	Supply	No	34		
568	Install	No	34		
	<u>RJ 11 flush type in skirting trunking</u>				
569	Supply	No	34		
570	Install	No	34		
	<u>External Lighting</u>				
571	Walkways, Carpark, Sport Field & perimeter Lighting				SUM
	<u>10m Flood light and pole</u>				
572	Supply	No	8		
573	Install	No	8		
	<u>Type C1: FLO Medium 10W LED Spazio Lighting or approved equivalent.</u>				
574	Supply	No	20		
575	Install	No	20		
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**COLLINGWOOD PRIMARY SCHOOL
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	<u>Type : Cobalt mini 30W LED Spazio Lighting or approved equivalent.</u>			
576	Supply	No	85	
577	Install	No	85	
	<u>Type : Beka LED shine 43w with 6m pole or approved equivalent.</u>			
578	Supply	No	20	
579	Install	No	20	
	<u>Intercom System</u>			
	<u>Supply and Install Aiphone Intercom Systems</u>			
	<u>Intercom and associated equipment between Gate House & Administration</u>			
580	AT-406: Handset-to-Handset System. Audio only handset intercom system set of 2 for two-way calling and communication	No	1	
581	SKK-620C 6V DC 200mA UL power supply with Battery Backup	No	1	
	<u>Cabling</u>			
582	Allow for all cabling to complete both intercom installations			SUM
	<u>Accessories and sundry items</u>			
583	Allow for all accessories and sundry items necessary for the complete installation of the Aiphone Intercom system			SUM
	<u>Installation and Labour</u>			
584	Allow all labour costs associated with the installation inclusive of all travelling, accommodation and associated costs for the full installation of the Intercom System			SUM
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**COLLINGWOOD PRIMARY SCHOOL
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8	Install below ground grease trap pit including concrete base, loadbearing brick walls, cover slab and manhole cover with size of pit 600 mm wider on all sides than the grease trap and depth to meet invert levels for: pit for GT/2	No	1		
	<u>Drainage Equipment</u>				
	<u>Fire Boosting and Pumps</u>				
	<u>This includes a complete installation of all equipment including all associated fittings and connections, connectors, valves and ancillaries all installed inclusive of jointing, hangers, supports, scaffolding, labour and all other cost and equipment to provide a complete, SANS compliant and Health and safety compliant installation.</u>				
	<u>REFER TO Z[-]500 equipment specification for details of equipment referred to below. ALL EQUIPMENT, SPECIFICATION, MATERIAL, NOTES AND ADDITIONAL INFORMATION WILL BE INCLUDED FOR IN THE PRICING</u>				
	<u>Installation of fire fighting booster set and tank in the plant room area as required, including connections and requirements</u>				
9	FT/01	No	1		
10	FP/01	No	1		
11	FP/02	No	1		
12	Install fire pump power and control systems, including the DB board, control panel and all associated cable and power requirements to and from the pumps. Panel will have links to the fire alarm system for warnings and communications.	No	1		
	<u>Install Plinths and supports for fire tanks and pumps comprising</u>				
13	150mm reinforced concrete bases	m2	110		
14	Test and commission the fire system		Item		
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	Install clearvu type fence around plant area, including 2m wide gate in fence:				
15	2.5m high	m	50		
	<u>Fire Equipment</u>				
	<u>This includes a complete installation of all equipment including all associated fittings and connections, connectors, valves and ancillaries all installed inclusive of jointing, hangers, supports, scaffolding, labour and all other cost and equipment to provide a complete, SANS compliant and Health and safety compliant installation.</u>				
	<u>REFER TO Z[-]500 equipment specification for details of equipment referred to below. ALL EQUIPMENT, SPECIFICATION, MATERIAL, NOTES AND ADDITIONAL INFORMATION WILL BE INCLUDED FOR IN THE PRICING</u>				
	<u>Installation of fire fighting equipment onto reticulation system including connections and valves required for:</u>				
16	HR/01			Item	
17	HD/01			Item	
18	FE/01			Item	
19	FE/02			Item	
20	FBC/01			Item	
	<u>Fire Equipment</u>				
	<u>Fire Signage</u>				
	<u>This includes a complete installation of all signs including all associated fittings and connections, connectors and ancillaries all installed inclusive of jointing, hangers, supports, scaffolding, labour and all other cost and equipment to provide a complete, SANS compliant and Health and safety compliant installation.</u>				
21	Complete fire signage installation as per layouts			Item	
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Fire Signage

Water Boosting, Pumps and measuring

This includes a supply, delivery, offloading and installation of all equipment including all associated fittings and connections, connectors and ancillaries all installed inclusive of jointing, hangers, supports, scaffolding, labour and all other cost and equipment to provide a complete, SANS compliant and Health and safety compliant installation.

REFER TO Z[--]500 equipment specification for details of equipment referred to below. ALL EQUIPMENT, SPECIFICATION, MATERIAL, NOTES AND ADDITIONAL INFORMATION WILL BE INCLUDED FOR IN THE PRICING

Installation of hot water generation equipment on the roof including connections to wet services reticulation system as well as all associated valves and equipment required for the following:

22	GH/01	No	1	
23	HP/01	No	1	
24	Install hot water generation equipment in kitchenette including connections, fittings and fixture required for HB/01	No	1	
25	Install water tanks for cold water storage including all required equipment and connections for: WS/01	No	4	
26	Install water booster set in plant area on plinth (as per the fire installation), including valves and connections required to the reticulation system BP/01	No	1	
	<u>Install WM/01 including in line strainer and two isolation valves in and including a plastic valve chamber for the following line sizes:</u>			
27	40Ø		Item	
28	32Ø		Item	

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29	25Ø	Item	
<u>Water Boosting, Pumps and measuring</u> <u>HVAC System</u> <u>HVAC Equipment</u> <u>This includes supply, delivery and installation of all equipment, fully installed, including associated fittings, valves and connections, jointing, hangers, supports, scaffolding, labour and all other cost and equipment to provide a complete, SANS compliant and Health and safety compliant installation</u> <u>REFER TO Z[--]500 equipment specification for details of equipment referred to below. ALL EQUIPMENT, SPECIFICATION, MATERIAL, NOTES AND ADDITIONAL INFORMATION WILL BE INCLUDED FOR IN THE PRICING</u> <u>Air conditioning Units</u> Installation of complete Direct Expansion (Split type) air conditioning system. Each system comprises the complete and working installation of the: outdoor condenser unit including supports and brackets, cable to connect to local isolator, refrigerant pipework into the building mounted to cable basket mounted to the wall for the entire external run. indoor evaporator unit installed and hung from soffit/roof structure, including supports and brackets, installed and connected cable to local isolator, refrigerant pipework from the wall to the internal unit mounted to cable basket hung from the soffit/roof structure. Indoor hard wired controller installed and fully cabled back to the AC unit installation to include all pipework, fully insulated with a minimum of 20mm thick insulation. Insulation to fit snugly and will be attached to pipe using duct tape and NOT cable ties.			
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**COLLINGWOOD PRIMARY SCHOOL
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	<u>Multi-split Cassette Indoor unit + Outdoor unit, including pipework, pipework insulation and cable basket fixed to roof structure to carry pipe and power</u>			
30	MSI/01	Item		
31	MISO/01	Item		
32	Split-type DX AC unit Wall Mounted Indoor unit + Outdoor unit, including brackets SP/01	Item		
	<u>Supply Fans</u>			
	<u>Install In line axial flow Fan/attenuator/filter bank assemblies including fan, 600 long cylindrical pod type attenuators on either side of fan, 0.25m2 face area filter bank on intake side comprising removable, cleanable filters (one pleated and one bag filters) in line in casing for easy removal and connections to ductwork fully installed including supports and anti-vibration mountings from the structure for:</u>			
33	SF/01	Item		
	<u>Extraction Fans</u>			
	<u>Install in line axial flow ceiling extract fan including mounting in ceiling and making good of hole in ceiling as well as connection to flex duct</u>			
34	EF/01	Item		
	<u>Install Kitchen extract fan on roof , including roof mount and connections to ductwork as well as all ancillaries required</u>			
35	EF/02	Item		
	<u>Install In line axial flow Fan/attenuator/ assembly including fan, 600 long cylindrical pod type attenuators on either side of fan and connections to ductwork fully installed including supports and anti-vibration mountings from the structure for:</u>			
36	EF/03	Item		
	<u>Louvres and Grilles</u>			
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

	<u>Install weather louvres including breaking out of hole, installing, making good of hole and connections to ductwork for:</u>				
37	WL/01	No	2		
38	WL/02	No	2		
	<u>Install grille including breaking out of hole, installing, making good of hole and connections to ductwork for:</u>				
39	EG/01	No	1		
	<u>Install door grille in door including cutting of hole in door, fitting and fixing of grille and making good for:</u>				
40	DG/01	No	1		
	<u>HVAC Equipment</u>				
	<u>Ductwork</u>				
	<u>This includes supply, delivery and installation of all ductwork fully installed, including associated fittings, t junctions, shoe connections, transition and standard connections and spigots, including jointing, hangers, supports, scaffolding, labour and all other cost and equipment to provide a complete, SANS compliant and Health and safety compliant installation</u>				
	<u>Standard Ductwork</u>				
	<u>Circular low pressure galvanised sheet metal ducting installed suspended from wooden or steel roof truss system it with underside of duct not exceeding 1m below soffit</u>				
41	250Ø	m	10		
42	400Ø	m	10		
	<u>Installation of fittings as required, including reducers, radius bends, square bends, transformations, spigots, branches, shoe pieces, tees for ductwork:</u>				
43	250Ø	No	6		
44	400Ø	No	10		
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	<u>Round flexible ducting installed, including connection at either end of the flexible ductwork and jointing.</u>				
45	Ductwork not exceed 1.5m in girth	m	10		
	<u>Kitchen Extract Ductwork</u>				
	<u>Rectangular "Black" low pressure sheet metal ducting for high heat and grease kitchen applications installed suspended from concrete soffit with underside of duct not exceeding 1m below soffit</u>				
46	Width or height not exceeding 750mm and sum of two adjacent sides not exceeding 1,15m	m	50		
	<u>Installation of fittings as required, including reducers, radius bends, square bends, transformations, spigots, branches, shoe pieces, tees for ductwork:</u>				
47	Width or height not exceeding 750mm and sum of two adjacent sides not exceeding 1,15m	No	20		
	<u>Lift Installation</u>				
	<u>Each lift installation price will include for the final design and coordination with eth structure, the supply delivery, installation, commissioning, testing and handing over of a fully functional and operation lift.</u>				
48	Lift 1 - wheel chair lift	No	1		
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<u>PROVISIONAL SUMS AND BUDGETARY ALLOWANCE</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Selected Sub-contractors</u>			
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 his may bring about, as no claims in this regard will be entertained. The following Budgetary Allowances are all NET amounts (exclusive of commission or discount for the Contractor) and are for work to be executed by Nominated/Selected Sub-contractors. Under no circumstances may any Provisional or Budgetary amounts be extended at an amount lower than the amount given in the descriptions			
<u>PLAYGROUND EQUIPMENT</u>			
1	Provide the amount of R 50,000.00 (Fifty Thousand Rand) for Playground Equipment	Item	50 000.00
2	Profit on the above item.	%	
3	Attendance on ditto.	%	
<u>LANDSCAPING</u>			
4	Provide the amount of R 100,000.00 (One Hundred Thousand Rand) for Additional Landscaping	Item	100 000.00
5	Profit on the above item.	%	
6	Attendance on ditto.	%	
Carried to Collection			R
Section No. 10 BUDGETARY ALLOWANCE Bill No. 1 PROVISIONAL SUMS			

**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

SIGNAGE

7	Provide the amount of R 150,000.00 (One Hundred and FiftyThousand Rand) for Signage	Item		150 000.00
8	Profit on the above item.		%	
9	Attendance on ditto.		%	
THE FOLLOWING BUDGETARY ALLOWANCES ARE FOR WORK TO BE EXECUTED BY THE CONTRACTOR :				
<u>The following budgetary allowances are for the work to be completed by the contractor:</u>				
10	Provide the amount of R 75,000.00 (Seventy-Five Thousand Rand) for Relocation of Parkhomes	Item		75 000.00
11	Profit on the above item.		%	
12	Attendance on ditto.		%	
13	Provide the amount of R 80 000.00 (Eighty Thousand Rand) for Spreaders to Stormwater	Item		80 000.00
14	Profit on the above item.		%	
15	Attendance on ditto.		%	
16	Provide the amount of R 100 000.00 (One Hundred Thousand Rand) for additional Joinery as directed by the Architect	Item		100 000.00
17	Profit on the above item.		%	
18	Attendance on ditto.		%	
19	Provide the amount of R100,000.00 (One HundredThousand Rand) for Reception counter and fittings	Item		100 000.00
20	Profit on the above item.		%	
21	Attendance on ditto.		%	

Carried to Collection

R

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BUDGETARY ALLOWANCE
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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

22	Provide the amount of R100,000.00 (One Hundred Thousand Rand) for builders work in connection with plunbing, drainage, electrical and mechanical services	Item		100 000.00
23	Profit on the above item.		%	
24	Attendance on ditto.		%	
25	Provide the amount of R 150,000.00 (One Hundred and Fifty Thousand Rand) for Kitchen Equipment	Item		150 000.00
26	Profit on the above item.		%	
27	Attendance on ditto.		%	
28	Provide the amount of R 300,000.00 (Three Hundred Thousand Rand) for Community Liason Officer	Item		300 000.00
29	Profit on the above item.		%	
30	Attendance on ditto.		%	
31	Provide the amount of R 500,000.00 (Five Hundred Thousand Rand) for Training local labour, training is to be provided by a service provider that is accredited by an Education and Training Quality Assurance Body under the South African Qualifications Authority	Item		500 000.00
32	Profit on the above item.		%	
33	Attendance on ditto.		%	
34	Provide the amount of R 1,000,000.00 (One Million Rand) for Management of Subcontractors	Item		1 000 000.00
35	Profit on the above item.		%	
36	Attendance on ditto.		%	
Carried to Collection				R
Section No. 10 BUDGETARY ALLOWANCE Bill No. 1 PROVISIONAL SUMS				

COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS

Section No. 10

Bill No. 1

PROVISIONAL SUMS

COLLECTION

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Amount

479

480

481

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**COLLINGWOOD PRIMARY SCHOOL
NEW BUILDINGS AND ANCILLARY SITE WORKS**

Section No	<u>FINAL SUMMARY</u>		Page No		Amount
1	Preliminaries		42		
2	SINGLE STOREY CLASSROOMS (BLOCK A,C,D,E & I)		114		
3	DOUBLE STOREY CLASSROOMS (BLOCKS B,H & F)		184		
4	MULTI-PURPOSE (BLOCK G)		241		
5	EXTERNAL BUILDINGS (TUCKSHOP&KITCHEN)		278		
6	EXTERNAL BUILDINGS (GUARDHOUSE & REFUSE)		325		
7	EXTERNAL WORKS		409		
8	ELECTRICAL INSTALLATION		469		
9	MECHANICAL INSTALLATION		478		
10	BUDGETARY ALLOWANCE		482		
	<u>SUBTOTAL</u>			R	
	<u>CONTINGENCIES</u>				
	CONSTRUCTION CONTINGENCIES (10%)			R	
	<u>ESCALATION:</u>				
	ESCALATION 3.5%		%		
	SUB-TOTAL (EXCLUDING VAT)			R	
	VALUE ADDED TAX (15%)			R	
	Carried to Form of Tender			R	