

**NAMDIA FOUNDATION PROJECTS
(EDUCATION PILLAR)**

**BILLS OF QUANTITIES FOR RENOVATION AND
UPGRADING OF HAMWEYI PRIMARY SCHOOL
IN THE KAVANGO WEST REGION –
CLASSROOM BLOCK**

INDEX TO BILLS OF QUANTITIES

<u>BILL NO.</u>	<u>Page No</u>
GENERAL NOTES	1
SECTION NO. 1: PRELIMINARIES	5
SECTION SUMMARY	32
SECTION NO. 2: CLASSROOM	33
1 EARTHWORKS	34
2 CONCRETE, FORMWORK AND REINFORCEMENT	39
3 MASONRY	43
4 WATERPROOFING	46
5 ROOF COVERINGS	47
6 CARPENTRY AND JOINERY	48
7 CEILINGS PARTITIONS AND ACCESS FLOORING	49
8 IRONMONGERY	50
9 STRUCTURAL STEELWORK	53
10 METALWORK	54
11 PLASTERING	55
12 GLAZING	56
13 PAINTWORK	57
14 EXTERNAL WORKS	60
SECTION SUMMARY	61
SECTION NO. 3: SPECIALIST INSTALLATIONS	62
SECTION SUMMARY	64

GENERAL NOTES

The Bidder is instructed to familiarize him/herself with all items listed under Section C: Specific Preliminaries

1. DRAWINGS

The Bidder is referred to the attached drawings.

2. BILLS OF QUANTITIES

The pages of these Bills of Quantities are numbered consecutively, and the Bidder is advised to check the number of pages and if any are missing or duplicated, or the figures or typing is indistinct, or if the Bills contain any obvious errors, the Bidder must immediately contact **lituwete.ndaedapo@namdia.na** to have the same rectified, as no liability whatsoever will be admitted in the Contractor's bid due to the foregoing.

No alteration, erasure, omission, or addition is to be made in the text and conditions of these Bills of Quantities and should any such alteration, amendment, note or addition be made, the same will not be recognized, but the reading of these Bills of Quantities as prepared by the Quantity Surveyor will be adhered to.

The Bidder is warned that should he use any quantities appearing in these Bills of Quantities for the purpose of ordering materials, he does so at his own risk and no liability whatsoever will be afterwards admitted by the Employer, Architect, Engineer, or Quantity Surveyor for the correctness of such Quantities.

Should there be any discrepancies in the descriptions and or quantities between the bills of quantities and the project drawings, the project drawings will in all events supersede the items in the bills of quantities.

3. SITE

This site is situated at the following coordinates 18.0856 63°S, 19.4605 66°E.

The Bidders are strongly advised to inspect the site and acquaint themselves thoroughly with the nature and extent of the works, transport facilities, condition of adjacent existing buildings and access to the site, limitations, and availability of working space, etc. before submitting their bids as no extras arising out of their failure to do so will be entertained.

4. SCOPE OF CONTRACT

The works included in these Bills of Quantities include:

1. Construction of classroom block comprising of 4x classrooms and 1 x storeroom.

The Client has the right to reduce the scope of work by up to 25% without the Contractor having to claim for any financial loss.

5. **PROCEDURE OF WORK**

The Bidder's attention is drawn to Clause 20 of the Preliminaries "POSSESSION OF SITE".

6. **PENALTIES FOR NON-COMPLETION**

The Bidder's attention is drawn to Clause 46.1 of the Preliminaries "LIQUIDATED DAMAGES."

7. **OTHER CONTRACTORS**

The Bidder's attention is specifically drawn to Clause 8 of the 'General Conditions of Contract' and he/she is strongly advised to cooperate and share the Site with other contractors, public authorities, utilities, and the Employer between the dates given in the Schedule of Other Contractors.

8. **VALUE ADDED TAX**

All prices in these Bills of Quantities are to be nett; i.e. rates are to exclude value-added tax.

The value-added tax is to be added to the total net contract amount on the Final summary page.

9. **ESCALATION OF BUILDING COSTS**

The Bidder is advised that the **only** form of adjustment, which shall be made in this regard, shall be as set out in Clause 44 'Price Adjustment' of the Preliminaries.

10. **CONTRACT DOCUMENTS**

- The General Conditions of Contract,
- Special Conditions of Contract,
- Contract Forms
- Project drawings and specifications applicable to this contract
- Model Preambles for Trades (2008 Edition) and Standard System of Measuring Building Work seventh edition (to be requested electronically from the Project Manager).

The Bidder is advised to examine the above documents and acquaint himself thoroughly with the nature and requirements of the work, as no claim for extra payment in this connection will afterwards be entertained. Should any parts of the documents or drawings not be clearly intelligible to the Bidder, he must, before submitting his bid obtain clarification from the Procurement Committee of the NAMDIA Foundation.

11. **SANS SPECIFICATIONS**

All references in these Bills of Quantities to Specifications of the South African National Standards shall be deemed to be reference to the latest issues of such specifications, and any subsequent amendments thereto.

All articles, materials, or items described as to conform to the SANS Specifications must bear the SANS mark.

All cement will be sourced locally, and the construction sand will be sourced in the vicinity of the construction site.

12. SPECIFIED ITEMS

The Bidder is advised that his prices for articles described as specified in the Bills of Quantities must be based on the type and manufacture specified in these Bills of Quantities.

Where articles other than of the manufacturer specified are used, an adjustment of the prices will be made and Variation Orders issued to cover these adjustments.

Substitution by similar or equal articles will be strictly subject to the Architect's approval and will only be considered if requested in writing after the contract has been awarded.

13. FINAL ACCOUNT

The Bidder's attention is drawn to the fact that all trades in the Bill of Quantities are provisional and subject to re-measurement.

The Final Account shall be as set out in Clause 55 'Final Account' of the 'General Conditions of Contract.'

14. MATERIALS AND WORKMANSHIP

The Bidder's attention is specifically drawn to the Specific Preliminaries and is advised that the Architect in consultation with the Heads of the relevant disciplines in the NAMDIA Foundation shall require the Bidder to furnish samples of all materials and workmanship for his approval prior to the work being executed and that these samples shall be for the Bidder's account.

15. SUBMISSION OF PRICED BILLS OF QUANTITIES AND OTHER RELEVANT INFORMATION

The attention of the Bidder is drawn to the fact that his original priced Bills of Quantities used for bidding purposes must be completed in black ink and must be submitted together with the Bidding Form. The priced Bills of Quantities must have all items properly priced, extended, and cast in ink. The use of pencil or correcting fluid and failure to initial every page may result in disqualification of the bidder.

16. EMPLOYMENT OF NAMIBIAN PEOPLE

No employee of the Contractor originating from any other country shall enter Namibian territory without a work permit and a residence permit, obtainable from the Ministry of Home Affairs, Immigration, Safety and Security.

It is an explicit condition of this Contract that no unskilled or semi-skilled labour may be employed on the works unless he or she is a Namibian citizen.

17. LOCAL COMMUNITY INVOLVEMENT

It is the express desire of the Employer that the local community be involved in this project. The contractor is encouraged to employ labour from the area where the project is situated. This applies equally to skilled, semi-skilled, and unskilled labour. The successful contractor must be willing, during the project to impart skills to the members of the local community.

18. WORK PERMITS

Work permits as issued by the Ministry of Home Affairs, Immigration, Safety, and Security will be accepted for specialized and/or Professional personnel only and only in the case where said Namibians cannot fill specialized positions.

19. BIDS

Bids must be made out and completed in black ink for the priceable Bill of Quantities and/or typed on the Bidding Form.

The lowest or any bid will not necessarily be accepted.

No qualifications of bids shall be allowed.

In the event of discrepancies in the prices quoted in the Bidding Form, in words and those quoted in figures, the words shall prevail.

Bidders are referred to the bid documents for the closing date of the bid.

SECTION NO. 1
PRELIMINARIES

Amount

SECTION NO. 1 **PRELIMINARIES**

PRELIMINARIES

NOTES

- i) The 'General Conditions of Contract' as included in the 'Standard Bidding Documents for Open National Bidding Works"shall be the form approved.
- ii) Bidders are referred to the abovementioned documents for the full intent and meaning of each clause thereof (hereinafter referred to by heading and clause number only) for which such allowance must be made as may be considered necessary.

Attention is directed to the relevant sections of the Model Preambles to Trades which can be requested from the Project Manger and shared electronically and must be read in conjunction herewith.

CONDITIONS OF BUILDING CONTRACT

GENERAL

CLAUSE 1 - DEFINITIONS

1 Fixed

Item

2 Variable with Time

Item

3 Variable with Value

Item

CLAUSE 2 - INTERPRETATION

4 Fixed

Item

5 Variable with Time

Item

6 Variable with Value

Item

CLAUSE 3 - LANGUAGE AND LAW

7 Fixed

Item

Carried To Section Summary

\$

Section No. 1
Bill No. 1
Preliminaries

		Amount	
8	Variable with Time	Item	
9	Variable with Value	Item	
CLAUSE 4 - PROJECT MANAGER'S DECISIONS			
10	Fixed	Item	
11	Variable with Time	Item	
12	Variable with Value	Item	
CLAUSE 5 - DELEGATION			
13	Fixed	Item	
14	Variable with Time	Item	
15	Variable with Value	Item	
CLAUSE 6 - COMMUNICATIONS			
16	Fixed	Item	
17	Variable with Time	Item	
18	Variable with Value	Item	
CLAUSE 7 - SUBCONTRACTING			
19	Fixed	Item	
Carried To Section Summary		\$	
Section No. 1			
Bill No. 1			
Preliminaries			

		Amount	
20	Variable with Time	Item	
21	Variable with Value	Item	
CLAUSE 8 - OTHER CONTRACTORS			
22	Fixed	Item	
23	Variable with Time	Item	
24	Variable with Value	Item	
CLAUSE 9 - PERSONNEL AND EQUIPMENT			
25	Fixed	Item	
26	Variable with Time	Item	
27	Variable with Value	Item	
CLAUSE 10 - EMPLOYER'S AND CONTRACTOR'S RISKS			
28	Fixed	Item	
29	Variable with Time	Item	
30	Variable with Value	Item	
CLAUSE 11- EMPLOYER'S RISKS			
31	Fixed	Item	
Carried To Section Summary		\$	
Section No. 1			
Bill No. 1			
Preliminaries			

		Amount	
32	Variable with Time	Item	
33	Variable with Value	Item	
CLAUSE 12 - CONTRACTOR'S RISKS			
34	Fixed	Item	
35	Variable with Time	Item	
36	Variable with Value	Item	
CLAUSE 13 - INSURANCE			
37	Fixed	Item	
38	Variable with Time	Item	
39	Variable with Value	Item	
CLAUSE 14 - SITE DATA			
40	Fixed	Item	
41	Variable with Time	Item	
42	Variable with Value	Item	
CLAUSE 15 - CONTRACTOR TO CONSTRUCT THE WORKS			
43	Fixed	Item	
Carried To Section Summary		\$	
Section No. 1			
Bill No. 1			
Preliminaries			

		Amount	
44	Variable with Time	Item	
45	Variable with Value	Item	
CLAUSE 16 - THE WORKS TO BE COMPLETED BY THE INTENDED COMPLETION DATE			
46	Fixed	Item	
47	Variable with Time	Item	
48	Variable with Value	Item	
CLAUSE 17 - APPROVAL BY THE PROJECT MANAGER			
49	Fixed	Item	
50	Variable with Time	Item	
51	Variable with Value	Item	
CLAUSE 18 - SAFETY			
52	Fixed	Item	
53	Variable with Time	Item	
54	Variable with Value	Item	
CLAUSE 19 - DISCOVERIES			
55	Fixed	Item	
Carried To Section Summary		\$	
Section No. 1			
Bill No. 1			
Preliminaries			

		Amount	
56	Variable with Time	Item	
57	Variable with Value	Item	
CLAUSE 20 - POSSESSION OF SITE			
58	Fixed	Item	
59	Variable with Time	Item	
60	Variable with Value	Item	
CLAUSE 21 - ACCESS TO THE SITE			
61	Fixed	Item	
62	Variable with Time	Item	
63	Variable with Value	Item	
CLAUSE 22 - INSTRUCTIONS			
64	Fixed	Item	
65	Variable with Time	Item	
66	Variable with Value	Item	
CLAUSE 23 - APPOINTMENT OF THE ADJUDICATOR			
67	Fixed	Item	
Carried To Section Summary		\$	
Section No. 1			
Bill No. 1			
Preliminaries			

		Amount	
68	Variable with Time	Item	
69	Variable with Value	Item	
CLAUSE 24 - PROCEDURE FOR DISPUTES			
70	Fixed	Item	
71	Variable with Time	Item	
72	Variable with Value	Item	
TIME CONTROL			
CLAUSE 25 - PROGRAM			
73	Fixed	Item	
74	Variable with Time	Item	
75	Variable with Value	Item	
CLAUSE 26 - EXTENSION OF THE INTENDED COMPLETION DATE			
76	Fixed	Item	
77	Variable with Time	Item	
78	Variable with Value	Item	
CLAUSE 27- ACCELERATION			
79	Fixed	Item	
Carried To Section Summary		\$	
Section No. 1			
Bill No. 1			
Preliminaries			

		Amount	
80	Variable with Time	Item	
81	Variable with Value	Item	
CLAUSE 28 - DELAYS ORDERED BY THE PROJECT MANAGER			
82	Fixed	Item	
83	Variable with Time	Item	
84	Variable with Value	Item	
CLAUSE 29 - MANAGEMENT MEETINGS			
85	Fixed	Item	
86	Variable with Time	Item	
87	Variable with Value	Item	
CLAUSE 30 - EARLY WARNING			
88	Fixed	Item	
89	Variable with Time	Item	
90	Variable with Value	Item	
QUALITY CONTROL			
CLAUSE 31 - IDENTIFYING DEFECTS			
91	Fixed	Item	
Carried To Section Summary		\$	
Section No. 1			
Bill No. 1			
Preliminaries			

		Amount	
92	Variable with Time	Item	
93	Variable with Value	Item	
CLAUSE 32 - TESTS			
94	Fixed	Item	
95	Variable with Time	Item	
96	Variable with Value	Item	
CLAUSE 33 - CORRECTION OF DEFECTS			
97	Fixed	Item	
98	Variable with Time	Item	
99	Variable with Value	Item	
CLAUSE 34 - UNCORRECTED DEFECTS			
100	Fixed	Item	
101	Variable with Time	Item	
102	Variable with Value	Item	
COST CONTROL			
CLAUSE 35 - CONTRACT PRICE			
103	Fixed	Item	
Carried To Section Summary		\$	
Section No. 1			
Bill No. 1			
Preliminaries			

		Amount	
104	Variable with Time	Item	
105	Variable with Value	Item	
CLAUSE 36 - CHANGES IN THE CONTRACT PRICE			
106	Fixed	Item	
107	Variable with Time	Item	
108	Variable with Value	Item	
CLAUSE 37 - VARIATIONS			
109	Fixed	Item	
110	Variable with Time	Item	
111	Variable with Value	Item	
CLAUSE 38 - CASHFLOW FORECASTS			
112	Fixed	Item	
113	Variable with Time	Item	
114	Variable with Value	Item	
CLAUSE 39 - PAYMENT CERTIFICATES			
115	Fixed	Item	
Carried To Section Summary		\$	
Section No. 1			
Bill No. 1			
Preliminaries			

		Amount	
116	Variable with Time	Item	
117	Variable with Value	Item	
CLAUSE 40- PAYMENTS			
118	Fixed	Item	
119	Variable with Time	Item	
120	Variable with Value	Item	
CLAUSE 41- COMPENSATION EVENTS			
121	Fixed	Item	
122	Variable with Time	Item	
123	Variable with Value	Item	
CLAUSE 42 - TAX			
124	Fixed	Item	
125	Variable with Time	Item	
126	Variable with Value	Item	
CLAUSE 43 - CURRENCIES			
127	Fixed	Item	
Carried To Section Summary		\$	
Section No. 1			
Bill No. 1			
Preliminaries			

		Amount	
128	Variable with Time	Item	
129	Variable with Value	Item	
CLAUSE 44 - PRICE ADJUSTMENT			
130	Fixed	Item	
131	Variable with Time	Item	
132	Variable with Value	Item	
CLAUSE 45 - RETENTION			
133	Fixed	Item	
134	Variable with Time	Item	
135	Variable with Value	Item	
CLAUSE 46 - LIQUIDATED DAMAGES			
136	Fixed	Item	
137	Variable with Time	Item	
138	Variable with Value	Item	
CLAUSE 47 - BONUS			
139	Fixed	Item	
Carried To Section Summary		\$	
Section No. 1			
Bill No. 1			
Preliminaries			

		Amount	
140	Variable with Time	Item	
141	Variable with Value	Item	
CLAUSE 48 - ADVANCE PAYMENT			
142	Fixed	Item	
143	Variable with Time	Item	
144	Variable with Value	Item	
CLAUSE 49 - SECURITIES			
145	Fixed	Item	
146	Variable with Time	Item	
147	Variable with Value	Item	
CLAUSE 50 - DAYWORKS			
148	Fixed	Item	
149	Variable with Time	Item	
150	Variable with Value	Item	
CLAUSE 51 - COST OF REPAIRS			
151	Fixed	Item	
Carried To Section Summary		\$	
Section No. 1			
Bill No. 1			
Preliminaries			

		Amount	
152	Variable with Time	Item	
153	Variable with Value	Item	
CLAUSE 52 - LABOUR CLAUSE			
154	Fixed	Item	
155	Variable with Time	Item	
156	Variable with Value	Item	
FINISHING THE CONTRACT			
CLAUSE 53 - COMPLETION			
157	Fixed	Item	
158	Variable with Time	Item	
159	Variable with Value	Item	
CLAUSE 54 - TAKING OVER			
160	Fixed	Item	
161	Variable with Time	Item	
162	Variable with Value	Item	
CLAUSE 55 - FINAL ACCOUNT			
163	Fixed	Item	
Carried To Section Summary		\$	
Section No. 1			
Bill No. 1			
Preliminaries			

		Amount	
164	Variable with Time	Item	
165	Variable with Value	Item	
CLAUSE 56 - OPERATING AND MAINTENANCE MANUALS			
166	Fixed	Item	
167	Variable with Time	Item	
168	Variable with Value	Item	
CLAUSE 57 - TERMINATION			
169	Fixed	Item	
170	Variable with Time	Item	
171	Variable with Value	Item	
CLAUSE 58 - FRAUD AND CORRUPTION			
172	Fixed	Item	
173	Variable with Time	Item	
174	Variable with Value	Item	
CLAUSE 59 - PAYMENT UPON TERMINATION			
175	Fixed	Item	
Carried To Section Summary		\$	
Section No. 1			
Bill No. 1			
Preliminaries			

		Amount	
176	Variable with Time	Item	
177	Variable with Value	Item	
CLAUSE 60 - PROPERTY			
178	Fixed	Item	
179	Variable with Time	Item	
180	Variable with Value	Item	
CLAUSE 61 - RELEASE FROM PERFORMANCE			
181	Fixed	Item	
182	Variable with Time	Item	
183	Variable with Value	Item	
SPECIFIC PRELIMINARIES			
SAMPLES OF MATERIAL			
The contractor shall furnish at his own cost such samples of materials and specimens of colours as may be called for by the architect for his approval.			
184	Fixed	Item	
185	Variable with Time	Item	
186	Variable with Value	Item	
Carried To Section Summary		\$	
Section No. 1			
Bill No. 1			
Preliminaries			

		Amount	
SAMPLES OF WORKMANSHIP AND MOCK-UPS			
The contractor shall furnish such samples of workmanship as may be called for by the architect for his approval. Where an assembly of various elements of the buildings is required, which is not incorporated in the works, this shall be arranged by the contractor. Any cost involved shall be borne by the employer.			
187	Fixed	Item	
188	Variable with Time	Item	
189	Variable with Value	Item	
ORDERING OF MATERIALS			
Should the Bills of Quantities be used for ordering materials, this shall be entirely at the contractor's risk.			
190	Fixed	Item	
191	Variable with Time	Item	
192	Variable with Value	Item	
ENCLOSURE OF THE WORKS			
The contractor shall provide, erect, alter as necessary, maintain and remove and make good at completion suitable hoardings complete with gantries, fans, safety screens, barriers, access gates, covered gangways, steel sections at crane lifts, splayed corners, returned ends, etc. all as necessary for the enclosure of the works and the protection of the general public and others.			
The contractor shall pay and recover all deposits and pay all fees and charges in connection with the hoarding and the use of the pavements throughout the whole course of the contract, all in accordance with any Act of Parliament, regulation or by-law of any local authority.			
193	Fixed	Item	
194	Variable with Time	Item	
Carried To Section Summary		\$	
Section No. 1			
Bill No. 1			
Preliminaries			

		Amount	
195	Variable with Value	Item	
PAVEMENT CROSSINGS AND PARKING METERS			
The contractor shall pay and recover all fees and charges in connections with and/or obtain permission for the suspension of parking facilities and for pavement or street encroachment and or crossings and the removal and eventual reinstatement of any local authority's parking meters			
196	Fixed	Item	
197	Variable with Time	Item	
198	Variable with Value	Item	
SPECIAL SCAFFOLDING			
No special scaffolding is measured as these bills of quantities are based on the sixth edition of the Standard System for Measuring Building Work.			
The Contractor shall provide, maintain and remove on completion special scaffolding for areas exceeding 5m above floor level, for use of all trades, as defined under the "Description of the Works".			
199	Fixed	Item	
200	Variable with Time	Item	
201	Variable with Value	Item	
CONTRACTOR'S OFFICES AND SHEDS			
The contractor shall provide and maintain temporary sheds and offices for the proper storage of materials and for the use of the workmen and shall remove such temporary sheds and offices upon completion.			
Under NO circumstances may any of the buildings at any stage be used for temporary accommodation for workers, contractor's offices or the storage of materials.			
202	Fixed	Item	
Carried To Section Summary		\$	
Section No. 1			
Bill No. 1			
Preliminaries			

		Amount	
203	Variable with Time	Item	
204	Variable with Value	Item	
OFFICES			
The contractor shall provide, maintain and remove on completion office accommodation for meetings held on site. The office shall be provided with tables and chairs sufficient for the maximum number of persons attending meetings and shall be kept clean.			
205	Fixed	Item	
206	Variable with Time	Item	
207	Variable with Value	Item	
MAIN NOTICEBOARD			
The contractor shall provide, erect where directed, maintain and remove on completion the main noticeboard complying with the requirements of the Institute of Namibian Architects, with the title of the project and the names of the employer, the architect, the quantity surveyor, the consulting engineers and the contractor signwritten thereon.			
208	Fixed	Item	
209	Variable with Time	Item	
210	Variable with Value	Item	
WATER			
The contractor shall provide all water for the works, including all necessary temporary plumbing, removing same and making good on completion.			
211	Fixed	Item	
Carried To Section Summary		\$	
Section No. 1			
Bill No. 1			
Preliminaries			

		Amount	
212	Variable with Time	Item	
213	Variable with Value	Item	
ELECTRICITY AND LIGHTING			
The contractor shall provide all necessary electricity and artificial lighting for the works, including all necessary temporary installation work, removing same and making good on completion.			
214	Fixed	Item	
215	Variable with Time	Item	
216	Variable with Value	Item	
TELEPHONES			
The contractor shall provide, maintain and remove on completion a PT telephone on site for use by all persons engaged upon the works and shall be entitled to recover the cost of outgoing calls from those making them.			
217	Fixed	Item	
218	Variable with Time	Item	
219	Variable with Value	Item	
TOILETS			
The contractor shall provide, maintain in a thoroughly clean and tidy condition proper toilets for the use of the workmen and remove same upon completion.			
220	Fixed	Item	
221	Variable with Time	Item	
Carried To Section Summary		\$	
Section No. 1			
Bill No. 1			
Preliminaries			

		Amount	
222	Variable with Value	Item	
PAYMENT OF PRELIMINARIES <p>The amount to be included in each monthly certificate in respect of preliminaries costs shall be calculated from the priced items within the preliminaries section of the bills of quantities.</p> <p>The contractor and quantity surveyor shall agree a division of the priced preliminaries items into:</p> <ol style="list-style-type: none"> 1) an initial establishment charge, payment of which shall be made to the contractor on proof that the relevant expenditures have been made; 2) a monthly charge, and 3) a final or dis-establishment charge <p>Should the contractor and quantity surveyor be unable to agree such division, the quantity surveyor shall make a fair and reasonable division. In arriving at such division, cognisance shall be taken of such factors as:</p> <ol style="list-style-type: none"> 1) premiums for insurance policies and performance guarantees being renewed annually 2) plant, scaffolding and the like remaining the property of the contractor or the hiring company and the capital cost thereof not being treated as part of the initial charge. <p>In the event of an extension of time for the completion of the works, the monthly charge be recalculated on the same basis as originally but taking into account the revised contract period and the amounts already paid to the contractor.</p>			
223	Fixed	Item	
224	Variable with Time	Item	
225	Variable with Value	Item	
PROTECTION <p>The contractor shall provide for the protection of all work for which a certificate of practical completion has not been issued and which is liable to be damaged from any cause. The contractor shall be responsible for any damage which may occur and shall make good at his own expense.</p>			
226	Fixed	Item	
Carried To Section Summary		\$	
Section No. 1			
Bill No. 1			
Preliminaries			

		Amount	
227	Variable with Time	Item	
228	Variable with Value	Item	
PROTECTION OF EXISTING AND/OR PARTIALLY OCCUPIED WORKS			
The contractor shall provide all reasonable measures necessary to protect the existing and/or partially occupied works to ensure that they are not damaged and shall remove such protection upon completion.			
229	Fixed	Item	
230	Variable with Time	Item	
231	Variable with Value	Item	
SITE SECURITY			
The contractor shall provide all watching and lighting necessary for general site security.			
232	Fixed	Item	
233	Variable with Time	Item	
234	Variable with Value	Item	
NOTICE BEFORE COVERING THE WORKS			
The contractor shall give adequate notice to the Architect and Quantity Surveyor whenever any work or materials which are subjected to the Architect's inspection or remeasurement are to be covered in or concealed in any way. In default of such notice being received, such work or materials shall be uncovered and later made good at the contractor's expense.			
235	Fixed	Item	
236	Variable with Time	Item	
Carried To Section Summary		\$	
Section No. 1			
Bill No. 1			
Preliminaries			

		Amount	
237	Variable with Value	Item	
DISTURBANCE			
The contractor shall execute the whole of the works with minimum disturbance to the adjoining premises, any parts of the works already handed over and the occupants of those premises and/or parts thereof.			
238	Fixed	Item	
239	Variable with Time	Item	
240	Variable with Value	Item	
CLEARING AND CLEANING			
The contractor shall regularly clean and clear away all rubbish and excess materials as the works proceed and, on completion, leave the works in a clean and satisfactory state for immediate use and occupation.			
241	Fixed	Item	
242	Variable with Time	Item	
243	Variable with Value	Item	
VERMIN			
The contractor shall take all necessary precautions to keep the works and site free from vermin during construction and shall leave the works vermin free upon completion.			
244	Fixed	Item	
245	Variable with Time	Item	
246	Variable with Value	Item	
Carried To Section Summary		\$	
Section No. 1			
Bill No. 1			
Preliminaries			

			Amount
WORKMEN'S COMPENSATION INSURANCE			
The Contractor and domestic sub-contractors shall insure workmen in terms of the Employee Compensation Act 5 of 1995 or any amendment thereto and shall deposit immediately with the Architect written confirmation of evidence of registration under the Workmen's Compensation Act when signing the Contract.			
Persons not falling under the abovementioned Act must be insured under individual Personal Accident Insurance policies to the satisfaction of the Architect.			
247	Fixed	Item	
248	Variable with Time	Item	
249	Variable with Value	Item	
OPEN FIRES			
No open fires will be permitted except in such places as are approved by the Project Manager. Any workmen or labourers lighting fires in unauthorised places are to be immediately dismissed.			
250	Fixed	Item	
251	Variable with Time	Item	
252	Variable with Value	Item	
BLASTING			
The Contractor shall take all responsibility during blasting operations, should any be necessary, and must observe all conditions set forth in Government and Local Authority Regulations. The use of explosives is left to the discretion of the Contractor who must indemnify the Employer against any claims for damages to persons on or near the site from any cause whatsoever arising out of the use of explosives. The Contractor will be held solely responsible for and must immediately make good, at his own expense, any damage that may occur through the use of explosives			
253	Fixed	Item	
Carried To Section Summary			\$
Section No. 1			
Bill No. 1			
Preliminaries			

		Amount	
254	Variable with Time	Item	
255	Variable with Value	Item	
AS BUILT DRAWINGS			
The position of construction breaks and the extent of individual concrete pours to be recorded by the Contractor on the Structural Engineers' drawings and are to be submitted to the Architect and the Structural Engineer for their records.			
The Contractor shall furnish the Architect with a set of marked drawings indicating the positions of all plumbing and drainage and electrical cables and pipe work as actually built.			
256	Fixed	Item	
257	Variable with Time	Item	
258	Variable with Value	Item	
PROTECTION OF TREES, ETC.			
Only those trees as are indicated by the Principal Agent shall be removed. All other trees are to be protected during the building operations and no workmen may damage these trees in any way. The Contractor is to note that some trees may occur within the area of building			
operations. Before removing such trees, the Contractor is to obtain specific instructions from the Principal Agent as whether such trees may be removed or not.			
259	Fixed	Item	
260	Variable with Time	Item	
261	Variable with Value	Item	
Carried To Section Summary		\$	
Section No. 1			
Bill No. 1			
Preliminaries			

SECTION NO. 1

PRELIMINARIES

SECTION SUMMARY

Page

Brought forward from page	6
Brought forward from page	7
Brought forward from page	8
Brought forward from page	9
Brought forward from page	10
Brought forward from page	11
Brought forward from page	12
Brought forward from page	13
Brought forward from page	14
Brought forward from page	15
Brought forward from page	16
Brought forward from page	17
Brought forward from page	18
Brought forward from page	19
Brought forward from page	20
Brought forward from page	21
Brought forward from page	22
Brought forward from page	23
Brought forward from page	24
Brought forward from page	25
Brought forward from page	26
Brought forward from page	27
Brought forward from page	28
Brought forward from page	29

Carried to Next

\$

Section No. 1
SECTION SUMMARY

Amount

Brought from Previous

\$

Brought forward from page

30

Carried to Final Summary

\$

Section No. 1
SECTION SUMMARY

SECTION NO. 2

CLASSROOM

	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>CLASSROOM</u></p> <p><u>BILL NO. 1</u></p> <p><u>EARTHWORKS</u></p> <p>All work in the foundations are measured provisional and subject to remeasurement or adjustment as the case may be.</p> <p>EARTHWORKS, ETC.</p> <p>SUPPLEMENTARY PREAMBLES</p> <p>Nature of ground</p> <p>The nature of the ground is assumed to be calcrete overlain by a layer of varying thickness if at all of sand and loose calcrete.</p> <p>Subterranean water</p> <p>Subterranean water is expected</p> <p>Excavation for working space in rock</p> <p>Notwithstanding clause 11 page 8 of the Standard System of Measuring Building Work, excavation for working space in rock will be measured in cubic metres to the extent executed and given as 'extra over' bulk excavation or trench and hole excavation as the case may be</p> <p>Carting away of excavated material</p> <p>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 depositing off at an approved dumping site</p> <p>Filling</p> <p>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material</p> <p>Bulking factor</p> <p>No bulking factor has been allowed for in measuring the excavations and the filling. The Tenderer is to allow for in their rates a bulking factor for all excavations and filling</p> <p>Testing</p> <p>The Bidder shall allow in their filling rates all necessary test to be carried out but not limited to density and moisture tests in accordance with SABS 1200D to the satisfaction of the Engineer, in isolation of any itemised priceable number of tests that maybe allowed for elsewhere for the Engineer</p>		
<p>Section No. 2</p> <p>Bill No. 1</p> <p>Earthworks</p>	<p>Carried to Collection</p>	<p>\$</p>

Rate

Amount

EXCAVATION, ETC.
Excavation in earth not exceeding 2m deep

1	Trenches.	m ³	81
---	-----------	----------------	----

Extra over trench and hole excavations in earth for excavation in

2	Soft rock.	m ³	12
---	------------	----------------	----

3	Hard rock.	m ³	8
---	------------	----------------	---

Risk of collapse of excavations

4	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	268
---	--------------------------------------------------------------	----------------	-----

CARTING AWAY
Extra over trench and hole excavations for carting away surplus material

5	Off site to a dumping site to be found by the Contractor.	m ³	81
---	-----------------------------------------------------------	----------------	----

FILLING, ETC. OTHER THAN BULK
Compaction of surfaces

6	Compaction of bottom of foundation trenches to 100% Mod AASHTO density.	m ²	67
---	-------------------------------------------------------------------------	----------------	----

7	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 100% Mod AASHTO density.	m ²	240
---	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------	-----

EARTH FILLING, ETC.
Filling with G7 material supplied by the Contractor, spread, watered, etc. and compacted to 98% Mod AASHTO density

8	Under floors, steps, pavings, etc.	m ³	36
---	------------------------------------	----------------	----

Carried to Collection

\$

Section No. 2
Bill No. 1
Earthworks

		Rate	Amount
	Filling with G5 material supplied by the Contractor, spread, watered, etc. and compacted to 98% Mod AASHTO density		
9	Backfilling to trenches, holes, etc.	m ³ 7	
10	Under floors, steps, pavings, etc.	m ³ 108	
	Coarse river sand filling supplied by the Contractor		
11	50mm Thick under floors, paving, etc.	m ² 240	
	Soilcrete filling from selected earth filling mixed with 10% cement by volume (5MPa minimum) compacted to 98% Mod AASHTO maximum density and mechanically vibrated:		
12	Backfilling under footings, bases, etc.	m ³ 34	
	KEEPING EXCAVATIONS FREE OF WATER		
13	Allow for keeping excavations free of water by bailing or pumping.	Item	
	SOIL POISONING		
	Approved type soil insecticide		
14	Under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming.	m ² 240	
15	To bottoms and sides of trenches, etc.	m ² 336	
	Approved type weed killer		
16	Under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming.	m ² 240	
17	To bottoms and sides of trenches, etc.	m ² 336	
	PRESCRIBED DENSITY TESTS ON FILLING		
	Note		
	Carried to Collection	\$	
	Section No. 2		
	Bill No. 1		
	Earthworks		

BILL NO. 1
EARTHWORKS
COLLECTION

Page No

Brought Forward from Page

34

35

36

37

Carried To Section Summary

\$

Section No. 2
 Bill No. 1
 Earthworks

Rate

Amount

SECTION NO. 2

CLASSROOM

BILL NO. 2

CONCRETE, FORMWORK AND REINFORCEMENT

SUPPLEMENTARY PREAMBLES

All work in the foundations are measured provisional and subject to remeasurement or adjustment as the case may be.

Cost of tests

The costs of making, storing and testing of concrete test cubes as required under clause 7 Tests of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Project Manager. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Project Manager. (Test cubes are measured separately)

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 soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high 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

TESTS BLOCKS

- 1 Making and testing set of three 150 x 150 x 150mm concrete strength test cubes (Provisional).

Sets 30

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

15MPa/19mm concrete, in

- 2 Blinding under footings

m³ 3

Carried to Collection

\$

Section No. 2

Bill No. 2

Concrete, Formwork And Reinforcement

		Rate	Amount
REINFORCED CONCRETE CAST IN FORMWORK			
30MPa/19mm concrete, in			
3	Strip footings.	m ³ 20	
REINFORCED CONCRETE			
30MPa/19mm concrete, in			
4	Surface beds cast in panels on waterproofing.	m ³ 24	
5	Ring beams.	m ³ 6	
6	Aprons.	m ³ 14	
7	Extra over for thickening out 75mm thick concrete apron to form toe size 250mm x 250mm deep overall with one edge splayed, including all necessary excavation and dressing of ant treatment and waterproofing membrane around same as required.	m 94	
FINISHING TOP SURFACE OF CONCRETE			
Finishing top surfaces of concrete smooth with a steel float			
8	Surface beds, slabs, etc.	m ² 240	
9	Apron slabs, ramps, etc.	m ² 143	
ROUGH FORMWORK (DEGREE OF ACCURACY II)			
Rough formwork to sides			
10	Ring beams.	m ² 58	
MOVEMENT JOINTS, ETC.			
Two layers of 375 micron dampproof course in slip joints between horizontal concrete and brick surfaces including cement mortar bed			
11	Not exceeding 300mm wide.	m 88	
Carried to Collection			\$
Section No. 2			
Bill No. 2			
Concrete, Formwork And Reinforcement			

		Rate	Amount
	Expansion joints with bitumen impregnated softboard between vertical concrete and/or brickwork surfaces		
12	10mm Joints not exceeding 300mm high.	m 139	
	Saw-cut joints		
13	Saw cut joint 3mm wide x 40mm deep formed in top of concrete	m 176	
	REINFORCEMENT (PROVISIONAL)		
	Mild steel rods in lengths not exceeding 13m to columns, beams, slabs, etc.		
14	8mm Diameter bars	Tonnes 0.14	
15	10mm Diameter bars	Tonnes 0.23	
	High tensile steel rods in lengths not exceeding 13m to columns, beams, slabs, etc.		
16	10mm Diameter bars	Tonnes 0.19	
17	12mm Diameter bars	Tonnes 0.38	
	Fabric reinforcement		
18	Type 245 fabric reinforcement in concrete surface beds, ramps, etc.	m ² 298	
19	Type 395 fabric reinforcement in concrete footings, etc.	m ² 67	
	Carried to Collection	\$	
Section No. 2			
Bill No. 2			
Concrete, Formwork And Reinforcement			

BILL NO. 2
CONCRETE, FORMWORK AND REINFORCEMENT
COLLECTION

Page No

Brought Forward from Page

39

40

41

Carried To Section Summary

\$

Section No. 2

Bill No. 2

Concrete, Formwork And Reinforcement

Rate

Amount

SECTION NO. 2

CLASSROOM

BILL NO. 3

MASONRY

SUPPLEMENTARY PREAMBLES

All work in the foundations are measured provisional and subject to remeasurement or adjustment as the case may be.

BRICKWORK

Sizes in descriptions

Bricks shall be ordered timeously to obtain uniformity in size and colour

Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick

Hollow walls

Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole

Bagged and sealed walls

Walls in two skins described as 'bagged and sealed' shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating

Testing

The Bidder shall allow in their brickwork rates for testing 12 bricks per every 1000 bricks delivered to site, in isolation of any itemised priceable number of tests that maybe allowed for elsewhere

Pointing

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

TESTING BRICKS

- 1 Sets of six bricks for testing including cost of testing and submitting reports on tests to the Engineer (Provisional).

Sets 30

BRICKWORK IN FOUNDATIONS (PROVISIONAL)

Brickwork of 14MPa cement bricks in 5:1 cement mortar

- 2 Half brick walls.

m² 17

Carried to Collection

\$

Section No. 2

Bill No. 3

Masonry

		Rate	Amount
3	One brick walls.	m ² 72	
	BRICKWORK IN SUPERSTRUCTURE		
	Brickwork of 7MPa cement bricks in 5:1 cement mortar		
4	Half brick walls.	m ² 69	
5	One brick walls.	m ² 242	
	BRICKWORK SUNDRIES		
	Brick reinforcement		
6	75mm Wide reinforcement built in horizontally.	m 266	
7	150mm Wide reinforcement built in horizontally.	m 933	
8	75mm Wide reinforcement built in horizontally in foundations (Provisional).	m 203	
9	150mm Wide reinforcement built in horizontally in foundations (Provisional).	m 848	
	Prestressed precast concrete lintels 110mm wide x 75mm high including all moulds and reinforced to suit the lengths required and hoisting and setting in position on brickwork in 3:1 cement mortar		
10	Lintel built into brickwork.	m 86	
	WINDOW CILLS		
	"Nutec" or equal approved fibre cement window cills		
11	150mm Wide x 15mm thick cills to fit underneath window frame.	m 31	
12	150mm Wide x 15mm thick cills set sloping and slightly projecting.	m 31	
	Carried to Collection	\$	
	Section No. 2		
	Bill No. 3		
	Masonry		

BILL NO. 3
MASONRY
COLLECTION

Page No

Brought Forward from Page

43

44

Carried To Section Summary

\$

Section No. 2
Bill No. 3
Masonry

Rate

Amount

SECTION NO. 2

CLASSROOM

BILL NO. 4

WATERPROOFING

DAMPPROOFING OF WALLS AND FLOORS

One layer 375 micron 'Brikrip' DPC or equivalent and approved damp-proof course

1	In walls.	m ²	22
---	-----------	----------------	----

One layer 250 micron 'Gunplas USB' Green or equivalent and approved waterproof sheeting sealed at laps with 'Gunplas' or equal and approved pressure sensitive tape

2	Under surface beds, etc. including turning up against walls.	m ²	240
---	--------------------------------------------------------------	----------------	-----

JOINT SEALANTS, ETC.

'Durakol G' or equal and approved silicone sealant, in

3	12 x 10mm Expansion joints in floors including raking out expansion joint filler as necessary.	m	139
---	------------------------------------------------------------------------------------------------	---	-----

4	3 x 35mm Horizontal saw cut joints.	m	176
---	-------------------------------------	---	-----

Carried To Section Summary

\$

Section No. 2

Bill No. 4

Waterproofing

Rate Amount

SECTION NO. 2

CLASSROOM

BILL NO. 5

ROOF COVERINGS

ROOF COVERINGS, ETC.

Note: The Contractor will be required to guarantee that the roof covering will be watertight and weatherproof for a period of twelve months after completion of the whole of the works.

RIBBED METAL SHEETING AND ACCESSORIES

0,55mm "Saflok 700 Colorplus AZ150" or equivalent and approved profiled sheeting and accessories, fixed to steel purlins at 1 700mm centres using "Saflok 700" or equivalent and approved clips screwed to steel purlins with "Saflok" or equivalent and approved water head self tapping screws (steel purlins elsewhere measured) in strict accordance to Manufacturer's instructions

1 Roof covering with pitch not exceeding 25 degrees.
m² 348

2 Standard narrow and broad flute closers.
m 72

ROOF AND WALL INSULATION

'Super Sisalation® Heavy Industrial Grade 420' or equivalent and approved Double sided reflective foil laminate incorporating layers of kraft paper and reinforcing scrim, laminated together with low density polyethylene (293gsm).

3 Insulation sheeting laid taut over purlins (at approximately 1 700mm centres) and fixed concurrent with roof covering with minimum 150mm stapled laps including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required.
m² 348

Carried To Section Summary

\$

Section No. 2

Bill No. 5

Roof Coverings

Rate

Amount

SECTION NO. 2

CLASSROOM

BILL NO. 6

CARPENTRY AND JOINERY

CARPENTRY AND JOINERY

NOTES:

Attention is directed to the relevant sections of the Model Preambles to Trades which forms a part of this Bill and must be read in conjunction herewith.

EAVES, VERGES, ETC

"Everite Nutec" or equivalent and approved fascia in single lengths including metal fixing and jointing strips, lugs, etc.

- | | | | |
|---|-------------------------------------------------------------------------------------------|---|----|
| 1 | 12 x 300mm Fascias and barge boards including galvanised steel H-profile jointing strips. | m | 95 |
|---|-------------------------------------------------------------------------------------------|---|----|

DOORS AND FANLIGHTS

"TDM Doors" or equivalent and approved heavy duty (exterior) solid hardwood doors with commercial veneer on both sides and concealed hardwood edge strips hung to aluminium frames

- | | | | |
|---|--------------------------------------|----|---|
| 2 | 44mm Door size 813mm x 2 100mm high. | No | 5 |
|---|--------------------------------------|----|---|

JOINERY

SUPPLEMENTARY PREAMBLES

NOTES:

1. The following joinery fittings have been measured as complete units i.e. the components of the units as outlined in 2. have not been measured separately.

The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc. but excluding tiling.

SHELVING

"SA Pine" or equivalent and approved

- | | | | |
|---|----------------------------------------------------------------------------------------------------------------------------------------|---|----|
| 3 | Shelving size 300mm wide x 22mm thick lined with lampine and with smooth sanded edges fixed to brackets (brackets elsewhere measured). | m | 41 |
|---|----------------------------------------------------------------------------------------------------------------------------------------|---|----|

Carried To Section Summary

\$

Section No. 2

Bill No. 6

Carpentry And Joinery

Rate

Amount

SECTION NO. 2

CLASSROOM

BILL NO. 7

CEILINGS PARTITIONS AND ACCESS FLOORING

METAL CEILINGS

0,58mm 'IBR' or equivalent and approved galvanised steel profiled sheeting in single length sheets fixed to underside of steel purlins (purlins elsewhere measured) at 1 200mm centres in accordance with the Manufacturer's instructions

- 1 Ceiling sheeting in single length sheets fixed to underside of steel purlins (elsewhere measured) with laps pop riveted.

m² 240

- 2 Eaves closure to head of ceiling sheeting.

m 69

Metal cornice

- 3 40mm x 40mm x 2,5mm Mild steel cornice to suit horizontal ceilings screwed with 6mm diameter x 20mm long stainless steel self-tapping screws to sheet steel ceiling and plugged with 5mm thick sawn softwood spacer to brickwork/concrete at 500mm centres.

m 139

SUNDRIES

- 4 Extra over IBR ceiling for access hatch 600mm x 600mm formed of 40mm x 40mm x 2mm mild steel angle section framed frame covered with corrugated steel sheeting set into and riveted at 200mm centres to 90mm x 65mm x 6m mild steel frame welded to steel purlin and 40mm x 40mm x 2mm mild steel angle section frame including flute closers at profiled edges.

No 2

Carried To Section Summary

\$

Section No. 2

Bill No. 7

Ceilings Partitions And Access Flooring

Rate

Amount

SECTION NO. 2

CLASSROOM

BILL NO. 8

IRONMONGERY

LOCKSETS, ETC.

"Union Assa Abloy" or equivalent and approved

1	'Code 2X20SCMK' or equivalent and approved single cylinder lockset.	No	5
---	---------------------------------------------------------------------	----	---

HANDLES

"Union Assa Abloy" or equivalent and approved

2	'Code 6109-06SS' or equivalent and approved sandpiper lever handle on rose with and including 'Code 5305-05C' or equivalent and approved escutcheons.	Pairs	5
---	-------------------------------------------------------------------------------------------------------------------------------------------------------	-------	---

PUSH PLATES AND KICKING PLATES

3	813 x 150mm High x 1,6mm thick natural anodised aluminium kick plate.	No	10
---	-----------------------------------------------------------------------	----	----

DOOR SUNDRIES

"Union Assa Abloy" or equivalent and approved

4	'Code AL8730AS' or equivalent and approved floor mounted doorstop.	No	5
---	--------------------------------------------------------------------	----	---

LETTERS, NAMEPLATES, ETC.

50 x 25 x 1.2mm Thick natural anodised aluminium plate with black reversed vinyl "Avant Garde" or equivalent and approved lettering 15mm high on backside and fixed to the door frame

5	"A 1" or equivalent and approved with two letters and or numerals.	No	5
---	--------------------------------------------------------------------	----	---

300mm Wide x 1.2mm thick natural anodised aluminium plate with bold black condensed "Helvetica" or equal and approved lettering 20mm high and screwed to the door :

6	50mm High plate with wording "STORE" plugged to doors.	No	1
---	--------------------------------------------------------	----	---

Carried to Collection

\$

Section No. 2

Bill No. 8

Ironmongery

		Rate	Amount
7	50mm High plate with wording "CLASSROOM" plugged to doors.	No 4	
	3mm Thick laser cut aluminium plate		
8	Purpose made Building Name size 800 x 150mm plate finished with baked epoxy powder colour black as per drawing attached.	No 1	
	SHELVES, ETC.		
	'Acrow' or equivalent and approved		
9	Standard double slot wall bands 1830mm length securely plugged and screwed to wall at 700mm (maximum) centre to centre in accordance with Manufacturer's specifications.	No 21	
10	Standard shelf support bracket 400mm long.	No 63	
	PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.		
	"Parrot Products" or equivalent and approved		
11	Pinning board size 1 200 x 1 500mm high overall complete with standard mounting brackets, including fixing to plastered brick wall.	No 4	
12	Pinning board size 2 500 x 1 200mm high overall complete with standard mounting brackets, including fixing to plastered brick wall.	No 4	
13	Chalk board size 2 700 x 1 200mm high overall complete with standard mounting brackets, including fixing to plastered brick wall.	No 4	
	Carried to Collection		\$
Section No. 2			
Bill No. 8			
Ironmongery			

BILL NO. 8
IRONMONGERY
COLLECTION

Page No

Brought Forward from Page

50

51

Carried To Section Summary

\$

Rate

Amount

SECTION NO. 2

CLASSROOM

BILL NO. 9

STRUCTURAL STEELWORK

STRUCTURAL STEELWORK

Painting

The Bidder is to include in their rates for painting of all steel with two coats red oxide to the approval of the Structural Engineer before any erection takes place. The Bidder to also allow for any touch ups with red oxide after erection is complete.

Wastage

The Bidder shall allow in their rates for all wastages and there will be no separate claim for wastage

Fabrication Drawings

The Bidder shall allow in their rates for the production of shop/fabrications drawings to the approval of the Structural Engineer before any steel works commence

NOTE: All steelwork to be grade 43 or 300W. All bolts to be grade 8.8. All base plates to receive graphite grease prior to fixing of trusses.

Descriptions

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

Testing

The Bidder is to include in their rates, for any weld tests that maybe required by the Structural Engineer and the production of fabrication drawings

STEEL TRUSSES, ETC.

Welded roof trusses of angle section rails, struts, braces, cleats, etc. and flat section bearer, gusset (one connection plates bolted to steel

- 1 Allow the sum of N\$ 150,000.00 (one hundred and fifty thousand Namibia dollars) for light gauge steel trusses

Item

150 000 00

Carried To Section Summary

\$

Section No. 2

Bill No. 9

Structural Steelwork

Rate

Amount

SECTION NO. 2

CLASSROOM

BILL NO. 10

METALWORK

SUPPLEMENTARY PREAMBLES

NOTE:

Prices must include for all holes, welds, etc.

PRESSED STEEL DOOR FRAMES

Note: All door linings to be fitted with one and a half pairs of 100mm steel butts welded on for each leaf and one pair of 75mm steel butts welded on for each fanlight unless otherwise described.

1,6mm 'Durowin' or equivalent and approved double rebated frames suitable for one brick walls

- 1 Frame for door size 813mm x 2 032mm high.

No 5

PRESSED STEEL WINDOW FRAMES

Residential type windows with horizontal bars fitted with and including type NBP33 burglar bars to all sections

- 2 Window type D4H size 1511mm x 1245mm high overall including ironmongery, etc.

No 14

- 3 Window type D7H size 1022mm x 1245mm high overall including ironmongery, etc.

No 9

WELDED SCREENS, GATES, ETC.

Purpose-made mild steel gates

- 4 Single security gate size 813mm x 2 030mm high with 40mm x 40mm x 4mm thick mild steel hollow section frame, intermediates and transomes and including 2 (No) x 100mm weld-on lift-off hinges with lockset "Code CISA 44620-25" or equivalent and approved and door stop fixed to wall "Code AL8730AS" or equivalent and approved, etc.

No 1

Carried To Section Summary

\$

Section No. 2

Bill No. 10

Metalwork

Rate

Amount

SECTION NO. 2

CLASSROOM

BILL NO. 11

PLASTERING

SCREEDS

3:1 Cement plaster screeds steel trowelled on concrete

1 30mm Thick on floors and landings.

m² 240

INTERNAL PLASTER

4:1 Cement plaster rendering coat with gypsum skim plaster finishing coat to brickwork, on

2 Walls.

m² 370

3 Narrow widths not exceeding 300mm wide.

m² 13

EXTERNAL PLASTER

5:1 Cement plaster on brickwork with bagged and vertical block brushed line

4 Walls.

m² 234

5 Walls in foundations (Provisional).

m² 30

6 Concrete beams.

m² 15

7 Narrow widths not exceeding 300mm wide.

m² 10

8 Plaster band 120mm wide x 15mm thick.

m 127

CORNER PROTECTORS, DIVIDING STRIPS, ETC.

9 25 x 5mm Thick brass weather bar.

m 5

Carried To Section Summary

\$

Section No. 2

Bill No. 11

Plastering

Rate

Amount

SECTION NO. 2

CLASSROOM

BILL NO. 12

GLAZING

GLAZING

NOTES:

Attention is directed to the relevant sections of the Model Preambles to Trades which forms a part of this Bill of Quantities and must be read in conjunction herewith.

GLAZING TO STEEL WITH PUTTY

4mm Clear float glass

1 Panes exceeding 0,1m2 and not exceeding 0,5m2.

m²

38

Carried To Section Summary

\$

Section No. 2

Bill No. 12

Glazing

Rate

Amount

SECTION NO. 2

CLASSROOM

BILL NO. 13

PAINTWORK

Note: All manufacturers trade names referred to are to be or equivalent and approved.

PAINTWORK TO NEW SURFACES

Note:

No paint is measured to walls behind pinning boards, chalkboards, etc.

ON FLOATED PLASTER

Prepare surfaces and remove all loose materials, apply one coat 'Neo Salt Stop', apply one coat 'Neo Acrylic Wall primer' or equivalent and approved plaster primer and two coats 'Neo Aurora' or equivalent and approved exterior quality water based acrylic emulsion paint, on

- 1 External smooth plastered walls.

m² 244

- 2 External smooth plastered foundation walls (Provisional).

m² 30

- 3 Concrete beams.

m² 15

Prepare surfaces and remove all loose materials, apply one coat 'Neo Acrylic Wall primer' or equivalent and approved plaster primer and two coats 'Neo Aurora' or equivalent and approved interior quality water based acrylic emulsion paint, on

- 4 Internal smooth plastered walls.

m² 383

ON FIBRE CEMENT

Prepare surfaces and remove all loose materials, apply one coat 'Neo Acrylic Wall primer' or equivalent and approved primer and two coats 'Neo Dur PVA' or equivalent and approved quality paint, on

- 5 Fascias and barge boards.

m² 33

Carried to Collection

\$

Section No. 2

Bill No. 13

Paintwork

		Rate	Amount
ON METAL			
Prepare surfaces and remove all loose material, dust, grease, salts and contamination with "Neo Metal Conditioner", rinse and spot priming with "Neo Zinc Chromate Prime" or equivalent and approved and apply one coat "Neo Universal Undercoat" or equivalent and approved and two coats "Neo High Gloss Enamel" or equivalent and approved paint			
6	Gates, grilles, burglar screens, balustrades, etc. (both sides measured over the full flat area).	m ² 3	
7	Door linings	m ² 8	
8	Windows and glazed sashes (both sides measured flat).	m ² 76	
9	Galvanised corrugated profile troughed/ribbed ceiling sheeting (measured on flat).	m ² 240	
ON TIMBER			
Prepare. Knot with spick and span knotting and prime with "Neo Pink Wood Primer" and apply one coat 'Neo Merit Universal' or equivalent and approved undercoat and two coats "Neo Eggshell Enamel" or equivalent and approved paint on			
10	Flush doors.	m ² 17	
Carried to Collection			\$
Section No. 2			
Bill No. 13			
Paintwork			

BILL NO. 13
PAINTWORK
COLLECTION

Page No

Brought Forward from Page

57

58

Carried To Section Summary

\$

Section No. 2
 Bill No. 13
 Paintwork

Rate

Amount

SECTION NO. 2

CLASSROOM

BILL NO. 14

EXTERNAL WORKS

SITE CLEARANCE, ETC.

Cutting down and removing, grubbing up roots and filling in holes

- 1 Tree exceeding 500mm and not exceeding 1000mm girth.

No 3

EARTHWORKS

Site clearance

- 2 Allow for digging up and removing all rubbish, debris, vegetation, etc., hedges, shrubs and trees not exceeding 200mm girth, bush, etc., from the building site and roughly level same.

m² 497

BULK FILLING, ETC.

Filling over site with selected G5 material obtained from borrow pits as approved by Engineer, spread, level, water and compact in layers of 150mm to not less than 95% of the modified AASHTO maximum density and trim to level.

- 3 Over site to form platforms (Provisional).

m³ 114

Carried To Section Summary

\$

Section No. 2

Bill No. 14

External Works

Bill No.

Page

1	EARTHWORKS	38
2	CONCRETE, FORMWORK AND REINFORCEMENT	42
3	MASONRY	45
4	WATERPROOFING	46
5	ROOF COVERINGS	47
6	CARPENTRY AND JOINERY	48
7	CEILINGS PARTITIONS AND ACCESS FLOORING	49
8	IRONMONGERY	52
9	STRUCTURAL STEELWORK	53
10	METALWORK	54
11	PLASTERING	55
12	GLAZING	56
13	PAINTWORK	59
14	EXTERNAL WORKS	60

Carried to Final Summary

\$

Section No. 2
SECTION SUMMARY

SECTION NO. 3
SPECIALIST INSTALLATIONS

SECTION NO. 3

SPECIALIST INSTALLATIONS

ELECTRICAL, ELECTRONICAL AND MECHANICAL INSTALLATIONS

General electrical and electronic installation

- 1 Provide the sum of N\$ 150,000.00 (One hundred and fifty thousand Namibia dollars) for General electrical and electronic installation.
- 2 Allow for profit on above if required.
- 3 Allow for attendance upon parties executing the above.

Item 150 000 00

Item

Item

Carried to Final Summary

\$

Section No. 3

Bill No. 1

Provisional Sums

Section
No.

FINAL SUMMARY

Page

1 PRELIMINARIES

32

2 CLASSROOM

61

3 SPECIALIST INSTALLATIONS

63

ADD: CONTINGENCIES

Allow the Amount of N\$ 50,000.00 (Fifty thousand Namibia dollars) for contingencies, to be used as directed by the Project Manager and to be deducted in whole or part if not required.

50 000 00

SubTotal before VAT

ADD VAT @ 15%:

Carried to Tender

\$

FINAL SUMMARY