

**NAMDIA FOUNDATION PROJECTS
(EDUCATION PILLAR)**

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

INDEX TO BILLS OF QUANTITIES

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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 18.17694°S, 19.50058°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

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.

The contractor and quantity surveyor shall agree a division of the priced preliminaries items into:

- 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

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:

- 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.

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.

223 Fixed

Item

224 Variable with Time

Item

225 Variable with Value

Item

PROTECTION

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.

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
<p>AS BUILT DRAWINGS</p> <p>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.</p> <p>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.</p>		
256	Fixed	Item
257	Variable with Time	Item
258	Variable with Value	Item
<p>PROTECTION OF TREES, ETC.</p> <p>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.</p>		
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

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Section No. 1
SECTION SUMMARY

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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>		
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			

	Rate	Amount
18 All tests to include for taking of samples, all labour, transport, accommodation, etc., that may be levied by the laboratory		
18 Allow the provisional amount of N\$ 10,000.00 (ten thousand Namibia dollars) for Engineer's density control tests to be deducted in part or whole if not required		
Item		10 000 00
Carried to Collection	\$	
Section No. 2		
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Earthworks		

BILL NO. 1
EARTHWORKS
COLLECTION

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Section No. 2
 Bill No. 1
 Earthworks

	Rate	Amount
<p>SECTION NO. 2</p> <p>CLASSROOM</p> <p>BILL NO. 2</p> <p>CONCRETE, FORMWORK AND REINFORCEMENT</p> <p>SUPPLEMENTARY PREAMBLES</p> <p>All work in the foundations are measured provisional and subject to remeasurement or adjustment as the case may be.</p> <p>Cost of tests</p> <p>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)</p> <p>Formwork</p> <p>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</p> <p>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</p> <p>Formwork to soffits of solid slabs etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described</p> <p>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</p> <p>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</p> <p>TESTS BLOCKS</p> <p>1 Making and testing set of three 150 x 150 x 150mm concrete strength test cubes (Provisional).</p> <p style="text-align: right; margin-right: 50px;"><u>Sets</u> <u>30</u></p> <p>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</p> <p>15MPa/19mm concrete, in</p> <p>2 Blinding under footings</p> <p style="text-align: right; margin-right: 50px;"><u>m³</u> <u>3</u></p> <p style="text-align: right; margin-right: 50px;">Carried to Collection</p>		
<p>Section No. 2</p> <p>Bill No. 2</p> <p>Concrete, Formwork And Reinforcement</p>		\$

		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

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Section No. 2
 Bill No. 2
 Concrete, Formwork And Reinforcement

		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

Amount

BILL NO. 3
MASONRY
COLLECTION

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Section No. 2
 Bill No. 3
 Masonry

	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
1	m	95
2	No	5
3	m	41
Carried To Section Summary	\$	

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

Section No. 2

Bill No. 6

Carpentry And Joinery

	Rate	Amount
7 50mm High plate with wording "CLASSROOM" plugged to doors.	No <u>4</u>	
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 <u>1</u>	
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 <u>21</u>	
10 Standard shelf support bracket 400mm long.	No <u>63</u>	
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 <u>4</u>	
12 Pinning board size 2 500 x 1 200mm high overall complete with standard mounting brackets, including fixing to plastered brick wall.	No <u>4</u>	
13 Chalk board size 2 700 x 1 200mm high overall complete with standard mounting brackets, including fixing to plastered brick wall.	No <u>4</u>	
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Ironmongery		

BILL NO. 8
IRONMONGERY
COLLECTION

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Item	150 000 00
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SECTION NO. 2

CLASSROOM

BILL NO. 9

STRUCTURAL STEELWORK

STRUCTURAL STEELWORK

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

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

STEEL TRUSSES, ETC.

Welded roof trusses of angle section rails, struts, braces, cleats, etc. and flat section bearer, gusset and 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

Section No. 2

Bill No. 9

Structural Steelwork

Amount

BILL NO. 13
PAINTWORK
COLLECTION

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Section No. 2
 Bill No. 13
 Paintwork

SECTION NO. 2
CLASSROOM
SECTION SUMMARY

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Section No. 2
SECTION SUMMARY

SECTION NO. 3
SPECIALIST INSTALLATIONS

Amount

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

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Section No. 3
 Bill No. 1
 Provisional Sums

Section No.	<u>FINAL SUMMARY</u>	Page	Amount
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2	CLASSROOM	61	
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	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		