

**NAMDIA FOUNDATION PROJECTS  
(EDUCATION PILLAR)**

**BILLS OF QUANTITIES FOR RENOVATION AND  
UPGRADING OF SITENDA 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°19'28.27"S, 19°22'3.67"E°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
20	Variable with Time	Item
21	Variable with Value	Item
<b>CLAUSE 8 - OTHER CONTRACTORS</b>		
22	Fixed	Item
23	Variable with Time	Item
24	Variable with Value	Item
<b>CLAUSE 9 - PERSONNEL AND EQUIPMENT</b>		
25	Fixed	Item
26	Variable with Time	Item
27	Variable with Value	Item
<b>CLAUSE 10 - EMPLOYER'S AND CONTRACTOR'S RISKS</b>		
28	Fixed	Item
29	Variable with Time	Item
30	Variable with Value	Item
<b>CLAUSE 11- EMPLOYER'S RISKS</b>		
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
<b>CLAUSE 12 - CONTRACTOR'S RISKS</b>		
34	Fixed	Item
35	Variable with Time	Item
36	Variable with Value	Item
<b>CLAUSE 13 - INSURANCE</b>		
37	Fixed	Item
38	Variable with Time	Item
39	Variable with Value	Item
<b>CLAUSE 14 - SITE DATA</b>		
40	Fixed	Item
41	Variable with Time	Item
42	Variable with Value	Item
<b>CLAUSE 15 - CONTRACTOR TO CONSTRUCT THE WORKS</b>		
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
<b>CLAUSE 16 - THE WORKS TO BE COMPLETED BY THE INTENDED COMPLETION DATE</b>		
46	Fixed	Item
47	Variable with Time	Item
48	Variable with Value	Item
<b>CLAUSE 17 - APPROVAL BY THE PROJECT MANAGER</b>		
49	Fixed	Item
50	Variable with Time	Item
51	Variable with Value	Item
<b>CLAUSE 18 - SAFETY</b>		
52	Fixed	Item
53	Variable with Time	Item
54	Variable with Value	Item
<b>CLAUSE 19 - DISCOVERIES</b>		
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
<b>CLAUSE 20 - POSSESSION OF SITE</b>		
58	Fixed	Item
59	Variable with Time	Item
60	Variable with Value	Item
<b>CLAUSE 21 - ACCESS TO THE SITE</b>		
61	Fixed	Item
62	Variable with Time	Item
63	Variable with Value	Item
<b>CLAUSE 22 - INSTRUCTIONS</b>		
64	Fixed	Item
65	Variable with Time	Item
66	Variable with Value	Item
<b>CLAUSE 23 - APPOINTMENT OF THE ADJUDICATOR</b>		
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
<b>CLAUSE 24 - PROCEDURE FOR DISPUTES</b>		
70	Fixed	Item
71	Variable with Time	Item
72	Variable with Value	Item
<b>TIME CONTROL</b>		
<b>CLAUSE 25 - PROGRAM</b>		
73	Fixed	Item
74	Variable with Time	Item
75	Variable with Value	Item
<b>CLAUSE 26 - EXTENSION OF THE INTENDED COMPLETION DATE</b>		
76	Fixed	Item
77	Variable with Time	Item
78	Variable with Value	Item
<b>CLAUSE 27- ACCELERATION</b>		
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
<b>CLAUSE 28 - DELAYS ORDERED BY THE PROJECT MANAGER</b>		
82	Fixed	Item
83	Variable with Time	Item
84	Variable with Value	Item
<b>CLAUSE 29 - MANAGEMENT MEETINGS</b>		
85	Fixed	Item
86	Variable with Time	Item
87	Variable with Value	Item
<b>CLAUSE 30 - EARLY WARNING</b>		
88	Fixed	Item
89	Variable with Time	Item
90	Variable with Value	Item
<b>QUALITY CONTROL</b>		
<b>CLAUSE 31 - IDENTIFYING DEFECTS</b>		
91	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

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
<b>DISTURBANCE</b>		
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
<b>CLEARING AND CLEANING</b>		
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
<b>VERMIN</b>		
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

Amount

**SECTION NO. 1**  
**PRELIMINARIES**  
**SECTION SUMMARY**

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SECTION SUMMARY

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Section No. 1  
SECTION SUMMARY

**SECTION NO. 2**

**CLASSROOM**

	Rate	Amount
<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>CLASSROOM</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>EARTHWORKS</u></b></p> <p>All work in the foundations are measured provisional and subject to remeasurement or adjustment as the case may be.</p> <p><b>EARTHWORKS, ETC.</b></p> <p><b>SUPPLEMENTARY PREAMBLES</b></p> <p><b>Nature of ground</b></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><b>Subterranean water</b></p> <p>Subterranean water is expected</p> <p><b>Excavation for working space in rock</b></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><b>Carting away of excavated material</b></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><b>Filling</b></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><b>Bulking factor</b></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><b>Testing</b></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
<b>EXCAVATION, ETC.</b>		
<b>Excavation in earth not exceeding 2m deep</b>		
1 Trenches.	m <sup>3</sup> 81	
<b>Extra over trench and hole excavations in earth for excavation in</b>		
2 Soft rock.	m <sup>3</sup> 12	
3 Hard rock.	m <sup>3</sup> 8	
<b>Risk of collapse of excavations</b>		
4 Sides of trench and hole excavations not exceeding 1,5m deep	m <sup>2</sup> 268	
<b>CARTING AWAY</b>		
<b>Extra over trench and hole excavations for carting away surplus material</b>		
5 Off site to a dumping site to be found by the Contractor.	m <sup>3</sup> 81	
<b>FILLING, ETC. OTHER THAN BULK</b>		
<b>Compaction of surfaces</b>		
6 Compaction of bottom of foundation trenches to 100% Mod AASHTO density.	m <sup>2</sup> 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 <sup>2</sup> 240	
<b>EARTH FILLING, ETC.</b>		
<b>Filling with G7 material supplied by the Contractor, spread, watered, etc. and compacted to 98% Mod AASHTO density</b>		
8 Under floors, steps, pavings, etc.	m <sup>3</sup> 36	
Carried to Collection		\$

Section No. 2  
 Bill No. 1  
 Earthworks

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

	Rate	Amount
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 Bill No. 1 Earthworks		

**BILL NO. 1**  
**EARTHWORKS**  
**COLLECTION**

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Section No. 2  
 Bill No. 1  
 Earthworks

	Rate	Amount
<p><b>SECTION NO. 2</b>  <b>CLASSROOM</b>  <b>BILL NO. 2</b>  <b>CONCRETE, FORMWORK AND REINFORCEMENT</b></p> <p><b>SUPPLEMENTARY PREAMBLES</b></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><b>TESTS BLOCKS</b></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: 20px;">Sets <u>30</u></p> <p><b>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</b>  <b>15MPa/19mm concrete, in</b></p> <p>2 Blinding under footings</p> <p style="text-align: right; margin-right: 20px;">m<sup>3</sup> <u>3</u></p> <p style="text-align: right; margin-right: 20px;">Carried to Collection</p>		
<p>Section No. 2            Bill No. 2            Concrete, Formwork And Reinforcement</p>	\$	



		Rate	Amount
<b>Expansion joints with bitumen impregnated softboard between vertical concrete and/or brickwork surfaces</b>			
12	10mm Joints not exceeding 300mm high.	m	139
<b>Saw-cut joints</b>			
13	Saw cut joint 3mm wide x 40mm deep formed in top of concrete	m	176
<b>REINFORCEMENT (PROVISIONAL)</b>			
<b>Mild steel rods in lengths not exceeding 13m to columns, beams, slabs, etc.</b>			
14	8mm Diameter bars	Tonnes	0.14
15	10mm Diameter bars	Tonnes	0.23
<b>High tensile steel rods in lengths not exceeding 13m to columns, beams, slabs, etc.</b>			
16	10mm Diameter bars	Tonnes	0.19
17	12mm Diameter bars	Tonnes	0.38
<b>Fabric reinforcement</b>			
18	Type 245 fabric reinforcement in concrete surface beds, ramps, etc.	m <sup>2</sup>	298
19	Type 395 fabric reinforcement in concrete footings, etc.	m <sup>2</sup>	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
<p><b>SECTION NO. 2</b></p> <p><b>CLASSROOM</b></p> <p><b>BILL NO. 3</b></p> <p><b>MASONRY</b></p> <p><b>SUPPLEMENTARY PREAMBLES</b></p> <p>All work in the foundations are measured provisional and subject to remeasurement or adjustment as the case may be.</p> <p><b>BRICKWORK</b></p> <p><b>Sizes in descriptions</b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p>Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick</p> <p><b>Hollow walls</b></p> <p>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</p> <p><b>Bagged and sealed walls</b></p> <p>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</p> <p><b>Testing</b></p> <p>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</p> <p><b>Pointing</b></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p><b>TESTING BRICKS</b></p> <p>1 Sets of six bricks for testing including cost of testing and submitting reports on tests to the Engineer (Provisional).</p> <p style="text-align: right; margin-right: 20px;">Sets <u>30</u></p> <p><b>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</b></p> <p><b>Brickwork of 14MPa cement bricks in 5:1 cement mortar</b></p> <p>2 Half brick walls.</p> <p style="text-align: right; margin-right: 20px;">m<sup>2</sup> <u>17</u></p> <p style="text-align: right; margin-right: 20px;">Carried to Collection</p>		
<p>Section No. 2</p> <p>Bill No. 3</p> <p>Masonry</p>		\$

		Rate	Amount
3	One brick walls.	<u>m<sup>2</sup> 72</u>	
<b>BRICKWORK IN SUPERSTRUCTURE</b>			
<b>Brickwork of 7MPa cement bricks in 5:1 cement mortar</b>			
4	Half brick walls.	<u>m<sup>2</sup> 69</u>	
5	One brick walls.	<u>m<sup>2</sup> 242</u>	
<b>BRICKWORK SUNDRIES</b>			
<b>Brick reinforcement</b>			
6	75mm Wide reinforcement built in horizontally.	<u>m 266</u>	
7	150mm Wide reinforcement built in horizontally.	<u>m 933</u>	
8	75mm Wide reinforcement built in horizontally in foundations (Provisional).	<u>m 203</u>	
9	150mm Wide reinforcement built in horizontally in foundations (Provisional).	<u>m 848</u>	
<b>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</b>			
10	Lintel built into brickwork.	<u>m 86</u>	
<b>WINDOW CILLS</b>			
<b>"Nutec" or equal approved fibre cement window cills</b>			
11	150mm Wide x 15mm thick cills to fit underneath window frame.	<u>m 31</u>	
12	150mm Wide x 15mm thick cills set sloping and slightly projecting.	<u>m 31</u>	
		Carried to Collection	\$

Section No. 2  
 Bill No. 3  
 Masonry

**BILL NO. 3**  
**MASONRY**  
**COLLECTION**

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Section No. 2  
 Bill No. 3  
 Masonry





	Rate	Amount
1	m	95
2	No	5
3	m	41
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**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>	
<b>3mm Thick laser cut aluminium plate</b>		
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>	
<b>SHELVES, ETC.</b>		
<b>'Acrow' or equivalent and approved</b>		
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>	
<b>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</b>		
<b>"Parrot Products" or equivalent and approved</b>		
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>	
	Carried to Collection	\$

Section No. 2  
 Bill No. 8  
 Ironmongery

Amount

**BILL NO. 8**  
**IRONMONGERY**  
**COLLECTION**

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Rate	Amount
1	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

Item

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Section No. 2

Bill No. 9

Structural Steelwork











**BILL NO. 13**  
**PAINTWORK**  
**COLLECTION**

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Section No. 2  
 Bill No. 13  
 Paintwork



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**CLASSROOM**  
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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

