



**Provisional Bills of Quantities for the Proposed
Refurbishment of Trans Kalahari Border to a One Stop
Border Post, at Buitepos, in Omaheke Region**

for

NAMIBIA REVENUE AGENCY

Bid No.: _____

Name of Bidder: _____

Bid Price (N\$-Incl. VAT): _____

PROJECT TEAM

Client	Architect	Electrical/Mechanical Engineer	Structural/Civil Engineer	Quantity Surveyor
NAMRA - Namibia Revenue Agency	Chigama Architects	DEKA Consulting Engineers	DEKA Consulting Engineers	Jordaan Oosthuysen Nangolo QS
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JANUARY 2024



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SECTION NO. 1
PRELIMINARIES



Amount

SECTION NO. 1
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.

CONDITIONS OF BUILDING CONTRACT

GENERAL

CLAUSE 1 - DEFINITIONS

- 1 Fixed
- 2 Variable with Time
- 3 Variable with Value

Item
Item
Item

CLAUSE 2 - INTERPRETATION

- 4 Fixed
- 5 Variable with Time
- 6 Variable with Value

Item
Item
Item

CLAUSE 3 - LANGUAGE AND LAW

- 7 Fixed
- 8 Variable with Time

Item
Item

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



Transkalahari Border Post

Amount

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

20 Variable with Time

Item

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



Transkalahari Border Post

Amount

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

32 Variable with Time

Item

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



Transkalahari Border Post

Amount

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

44 Variable with Time

Item

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



Transkalahari Border Post

Amount

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

56 Variable with Time

Item

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



Transkalahari Border Post

Amount

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

68 Variable with Time

Item

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



Transkalahari Border Post

Amount

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

80 Variable with Time

Item

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



Transkalahari Border Post

Amount

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

92 Variable with Time

Item

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



Transkalahari Border Post

Amount

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

104 Variable with Time

Item

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



Transkalahari Border Post

Amount

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

116 Variable with Time

Item

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



Transkalahari Border Post

Amount

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

128 Variable with Time

Item

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



Transkalahari Border Post

Amount

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

140 Variable with Time

Item

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



Transkalahari Border Post

Amount

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

152 Variable with Time

Item

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



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

164 Variable with Time

Item

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



Amount

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

176 Variable with Time

Item

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



Amount

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

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.

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



Amount

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

193 Fixed

Item

194 Variable with Time

Item

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

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



Amount

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

202 Fixed

Item

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

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



Amount

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

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

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



Amount

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

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

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



Amount

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

226 Fixed

Item

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.

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



Amount

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

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.

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



Amount

241 Fixed

Item

242 Variable with Time

Item

243 Variable with Value

Item

VERMIN

244 Fixed

Item

245 Variable with Time

Item

246 Variable with Value

Item

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.

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



Amount

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

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

Carried To Section Summary

N\$

Section No. 1
Bill No. 1
Preliminaries



Amount

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

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N\$

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

MAIN BUILDING

	Rate	Amount
<p>SECTION NO. 2</p> <p>MAIN BUILDING</p> <p>BILL NO. 1</p> <p>ALTERATIONS (PROVISIONAL)</p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.</p> <p>TEMPORARY BARRIERS, SCREENS, ETC</p> <p>Temporary barriers, screens, etc. including removal</p>		
1		
	m	94
2		
	m	32
<p>REMOVAL OF EXISTING WORK</p> <p>Breaking up and removing unreinforced concrete</p>		
3		
	m ³	3
<p>Breaking up and removing reinforced concrete, including cutting off and removing reinforcement</p>		
4		
	m ³	36
5		
	m ²	61
<p>Breaking down and removing brickwork etc.</p>		
6		
	m ²	8
7		
	m ²	152
	Carried to Collection	N\$
<p>Section No. 2</p> <p>Bill No. 1</p> <p>Alterations (provisional)</p>		



		Rate	Amount
Taking out and removing doors, windows, etc., including thresholds, sills, etc. (building up openings and making good finishes elsewhere)			
8	Timber single door and frame not exceeding 2,5m ²	No <u>2</u>	
9	Timber single door not exceeding 2,5m ² (excluding frame).	No <u>12</u>	
10	Steel single door and frame not exceeding 2,5m ²	No <u>5</u>	
11	Glazed steel window not exceeding 2,5m ²	No <u>28</u>	
12	Glazed steel window exceeding 2,5m ² and not exceeding 5m ²	No <u>1</u>	
13	Glazed steel window exceeding 5m ² and not exceeding 7.5m ²	No <u>1</u>	
14	Screen gate size 900 x 2,100mm high.	No <u>2</u>	
15	Roller shutter door size 3,000 x 2,400mm high.	No <u>1</u>	
16	Steel screens 3,000m high.	m <u>17</u>	
Taking down and removing roofs, floors, panelling, ceilings, partitions, etc.			
17	IBR sheet steel roof covering and timber purlins	m ² <u>72</u>	
18	IBR sheet steel side cladding.	m ² <u>163</u>	
19	Gypsum plasterboard ceilings, including cornices, timber bandering, etc.	m ² <u>454</u>	
20	Transluscent sheet lourves.	m ² <u>48</u>	
		Carried to Collection	
Section No. 2			
Bill No. 1			
Alterations (provisional)			
		N\$	



		Rate	Amount
21	Gutters and downpipes.	<u>m</u> 131	
Taking out and removing sundry joinery work, fittings, etc.			
22	Timber sink cupboard 900 x 700 x 900mm high, including sink and disconnecting waste pipe	<u>No</u> 1	
Taking out and removing ironmongery			
23	Toilet paper holder from wall	<u>No</u> 4	
Taking out/off and removing sundry metalwork			
24	Steel balustrades 900mm high from concrete stairs, including making good granolithic finish	<u>m</u> 45	
25	80 x 80mm Mild steel angle iron corner protector.	<u>m</u> 132	
Hacking up/off and removing ceramic tiles including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc.			
26	Tiles to floors	<u>m²</u> 309	
27	Tiles to walls	<u>m²</u> 16	
Taking out and removing piping, sanitary fittings, etc., including cutting off as necessary, disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)			
28	Vitreous china wash hand basin, including short lengths of piping, etc.	<u>No</u> 4	
29	Vitreous china WC pan with cistern, including short lengths of piping, etc.	<u>No</u> 3	
30	Vitreous china wall hung urinal with flush valve, including short lengths of piping, etc.	<u>No</u> 1	
		Carried to Collection	
			N\$

Section No. 2
 Bill No. 1
 Alterations (provisional)



		Rate	Amount
Taking out/off and removing glass and mirrors			
31	Mirror 600 x 900mm high from wall	<u>No 5</u>	
Remove existing mechanical equipment, etc			
32	Hydraulic lift.	<u>No 2</u>	
CUTTING THROUGH FLOORS AND CEILINGS			
Cutting through			
33	150mm Thick reinforced concrete surface bed for 220mm wide concrete ground beam and making good concrete on both sides of new one brick walls.	<u>m 122</u>	
BUILDING UP OPENINGS			
Brickwork in NFP bricks in class II mortar in building up openings			
34	Half brick walls	<u>m² 4</u>	
35	One brick walls	<u>m² 8</u>	
Sundries			
36	Cutting toothings and bonding new brickwork to existing	<u>m² 32</u>	
MAKING GOOD OF FINISHES, ETC			
Making good cement screeds			
37	25mm Thick on floors in patches	<u>m² 409</u>	
Making good internal cement plaster			
38	Walls in patches	<u>m² 248</u>	
	Carried to Collection		
		N\$	

Section No. 2
 Bill No. 1
 Alterations (provisional)



Transkalahari Border Post
Amount

BILL NO. 1
ALTERATIONS (PROVISIONAL)
COLLECTION

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Carried To Section Summary

N\$

Section No. 2
Bill No. 1
Alterations (provisional)



		Rate	Amount
8	Backfilling to trenches, holes, etc.		
		<u>m³ 248</u>	
	Filling with approved G7 material supplied and carted onto site by the Contractor, compacted to a density of at least 95% Mod. AASHTO maximum density:		
9	Under floors, pavings, etc		
		<u>m³ 319</u>	
	Filling with approved G6 material supplied and carted onto site by the Contractor, compacted to a density of at least 95% Mod. AASHTO maximum density:		
10	Backfilling to trenches, holes, etc.		
		<u>m³ 224</u>	
11	Under floors, pavings, etc		
		<u>m³ 141</u>	
	Filling with approved G5 material supplied and carted onto site by the Contractor, compacted to a density of at least 98% Mod. AASHTO maximum density:		
12	Under floors, pavings, etc.		
		<u>m³ 281</u>	
	Coarse river sand filling compacted to 95% Mod. AASHTO maximum density:		
13	50mm Thick under floors		
		<u>m² 937</u>	
	Surface Preparation:		
14	Trim and level off surface of ground (excavated or filled under this Contract) to receive concrete surface beds, including excavating or filling, ripping and scarifying as necessary and compacting the whole area for a depth of 150mm to a density of at least 95% Mod. AASHTO maximum density, part to falls.		
		<u>m² 937</u>	
	Keeping excavations free of water		
15	Keeping excavations free of all water other than subterranean water		
		Item	
		Carried to Collection	
		N\$	

Section No. 2
 Bill No. 2
 Earthworks (provisional)



Rate

Amount

Prescribed density tests on filling

16 Modified AASHTO Density test

No 30

SOIL POISONING

Soil insecticide in accordance with SANS 5859

17 Under floors etc. including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming

m² 937

18 To bottoms and sides of trenches etc.

m² 3134

Carried to Collection

N\$

Section No. 2
Bill No. 2
Earthworks (provisional)



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Amount

BILL NO. 2
EARTHWORKS (PROVISIONAL)
COLLECTION

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Carried To Section Summary

N\$

Section No. 2
Bill No. 2
Earthworks (provisional)



		Rate	Amount
7	Columns in foundations (Provisional).	<u>m³ 3</u>	
8	Ground beams.	<u>m³ 11</u>	
9	Surface beds on waterproofing.	<u>m³ 93</u>	
10	Pavings, etc to falls.	<u>m³ 15</u>	
TEST CUBES			
Test cubes			
11	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	<u>No 75</u>	
SMOOTH FORMWORK (DEGREE OF ACCURACY II)			
Smooth formwork to sides			
12	Rectangular columns in foundations (Provisional).	<u>m² 24</u>	
13	Ground beams (Provisional).	<u>m² 98</u>	
14	Beams	<u>m² 38</u>	
15	Rectangular columns.	<u>m² 86</u>	
16	Edges, risers, ends and reveals not exceeding 300mm high or wide.	<u>m 103</u>	
17	Ring beams	<u>m² 232</u>	
Smooth formwork to circular columns:			
18	300mm Diameter column 4m high	<u>No 4</u>	
	Carried to Collection		
		N\$	

Section No. 2
 Bill No. 3
 Concrete, Formwork And Reinforcement



		Rate	Amount
Smooth Formwork to Soffits:			
19	Slabs propped up exceeding 1.5m and not exceeding 3.5m high	<u>m²</u>	<u>92</u>
Smooth Formwork to Sides and Soffits:			
20	Isolated beams.	<u>m²</u>	<u>69</u>
CONCRETE SUNDRIES			
Finishing top surfaces of concrete smooth with a wood float			
21	Surface beds, slabs, etc.	<u>m²</u>	<u>1005</u>
22	Pavings, to falls.	<u>m²</u>	<u>128</u>
Finishing top surfaces of concrete to an evenly ribbed non-slip surface			
23	Surface beds, slabs, etc. to falls	<u>m²</u>	<u>61</u>
MOVEMENT JOINTS ETC			
Two layer of 375µm 'Brickgrip' to form slip joints between horizontal concrete and brick surfaces including cement mortar bed:			
24	Not exceeding 300mm wide	<u>m</u>	<u>318</u>
Expansion joints with 12mm softboard between vertical concrete and brick surfaces:			
25	10mm Joints not exceeding 300mm high.	<u>m</u>	<u>228</u>
Saw cut joints:			
26	10 x 35mm Saw cut joints in top of concrete.	<u>m</u>	<u>133</u>
Vertical joggle construction joints through concrete including thick cement slurry to one face:			
27	Surface beds not exceeding 300mmm thick.	<u>m</u>	<u>66</u>
		Carried to Collection	N\$
Section No. 2			
Bill No. 3			
Concrete, Formwork And Reinforcement			



Rate

Amount

REINFORCEMENT (PROVISIONAL)

Mild steel reinforcement to structural concrete work

28 All Diameter bars

Tonnes 2.45

High tensile steel reinforcement to structural concrete work

29 All Diameter bars

Tonnes 7.8

Fabric reinforcement

30 Type 245 fabric reinforcement in concrete strip footings etc.

m² 649

31 Type 395 fabric reinforcement in concrete surface beds etc.

m² 937

32 Type 617 fabric reinforcement in concrete surface beds etc.

m² 68

Carried to Collection

N\$

Section No. 2

Bill No. 3

Concrete, Formwork And Reinforcement



Transkalahari Border Post
Amount

BILL NO. 3
CONCRETE, FORMWORK AND REINFORCEMENT
COLLECTION

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Section No. 2
Bill No. 3
Concrete, Formwork And Reinforcement



Rate

Amount

SECTION NO. 2**MAIN BUILDING****BILL NO. 4****MASONRY**

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.

SUPPLEMENTARY PREAMBLES

The Tenderer must allow in his /her pricing for the cost of providing brick compression tests. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Site Supervisor. Failing to do so can result in payment to be withheld until such time that proof can be provided that the bricks complies to the required standards.

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

BRICKWORK IN FOUNDATIONS (PROVISIONAL)

Brickwork of concrete bricks (14 MPa nominal compressive strength) in Class II mortar:

1	Half brick walls.		
		m ²	185
2	One brick walls.		
		m ²	782
3	One and half brick walls		
		m ²	17

BRICKWORK IN SUPERSTRUCTURE

Brickwork of concrete bricks in class II mortar (7MPa Compressive strength)

4	Half brick walls.		
		m ²	492
5	One brick walls.		
		m ²	2664
6	One and half brick walls.		
		m ²	174

Carried to Collection

N\$

Section No. 2
Bill No. 4
Masonry



Rate

Amount

BRICKWORK SUNDRIES

Brickwork reinforcement:

7	75mm Wide reinforcement built in horizontally.	m	1949
8	75mm Wide reinforcement built in horizontally in foundations (Provisional).	m	2034
9	150mm Wide reinforcement built in horizontally in foundations (Provisional).	m	8601
10	150mm Wide reinforcement built in horizontally.	m	10553
11	225mm Wide reinforcement built in horizontally.	m	230
12	225mm Wide reinforcement built in horizontally in foundations (Provisional).	m	187
Prestressed fabricated lintels:			
13	100 x 70mm Lintels in lengths not exceeding 3m.	m	413

Carried to Collection

N\$

Section No. 2
Bill No. 4
Masonry



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Amount

BILL NO. 4
MASONRY
COLLECTION

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Section No. 2
Bill No. 4
Masonry



Rate Amount

SECTION NO. 2

MAIN BUILDING

BILL NO. 5

WATERPROOFING

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.

SUPPLEMENTARY PREAMBLES

Waterproofing:

Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs.

DAMP-PROOFING OF WALLS AND FLOORS

One layer of 375 micron Consol Plastics Brikgrip or similar approved DPC embossed damp proof course:

1	In walls.		
		m ²	161

One layer of 250 micron Consol Plastics Gunplas USB Green or similar approved waterproof sheeting sealed at laps with Gunplas Pressure Sensitive Tape:

2	Under surface beds.		
		m ²	937

WATERPROOFING TO ROOFS, BASEMENTS, ETC

Prime with one coat bitumen primer and one layer 4mm fully bonded waterproof membrane comprising two bitumen layers reinforced with woven spun bonded polyester fabric and coated with polyethylene film for heat bonding, laid with 100mm side and 150mm end laps

3	On flat roofs		
		m ²	68

JOINT SEALANTS ETC

'abe Thioflex 600" SABS 110-1973' or similar approved two - part polysulphide sealing compound including backing cord, bond breaker, primer, etc:

4	10 x 35mm In saw cut joints in floors		
		m	133

Carried to Collection

N\$

Section No. 2
Bill No. 5
Waterproofing



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Rate

Amount

5 6 x 25mm In expansion joints in floors including raking out expansion joint filler as necessary

m 228

Carried to Collection

N\$

Section No. 2
Bill No. 5
Waterproofing



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Amount

BILL NO. 5
WATERPROOFING
COLLECTION

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N\$

Section No. 2
Bill No. 5
Waterproofing



Rate Amount

SECTION NO. 2

MAIN BUILDING

BILL NO. 6

ROOF COVERINGS

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.

RIBBED METAL SHEETING AND ACCESSORIES

'Klip-Lok 406' or similar approved 0,6mm thick light industrial Z275 spelter galvanised steel sheeting with chromadek finish (dove grey colour) and accessories fixed to steel purlins or rails at 1,450mm centres:

1 Roof covering with pitch not exceeding 25°
m² 964

0.58mm Thick 'Brownbuilt Klip-lock Chromadek' or similar approved flashings and accessories:

2 Headwall flashing 410mm girth and two times bent along girth
m 63

3 Ridge coverings 560mm girth.
m 124

4 Barge flashing 580mm girth and three times bent along girth (Code FK13).
m 24

5 Cover flashing 470mm girth and two times bent along girth.
m 62

6 Poly eave closer or poly narrow flute closer to suit profile
m 247

ROOF AND WALL LINING AND INSULATION

'Sisalation® ' FR405 Fire Retardant Light Industrial or similar approved double sided reflective foil laminate incorporating layers of kraft paper and reinforcing scrim, laminated together with low density polyethylene (293gsm).

7 Insulation laid taut over steel purlins (at approximately 1,450mm centres) and fixed concurrent with roof covering including 14 or 16gg galvanised steel straining wires at 275mm or 367mm centres laid over purlins.
m² 868

Carried To Section Summary

N\$

Section No. 2
Bill No. 6
Roof Coverings



Rate Amount

SECTION NO. 2

MAIN BUILDING

BILL NO. 7

CARPENTRY AND JOINERY

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.

DOORS

'TDM' or similar approved Class 4 standard semi-solid laminated doors with hardwood facing, hung to steel frames

1	44mm Door 813 x 2,032mm high	<u>No</u>	21
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'TDM' or similar approved Class 4 standard solid laminated doors with hardwood facing, hung to steel frames

2	44mm Door 813 x 2,032mm high	<u>No</u>	33
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'TDM' or similar approved class 4 solid purpose made laminated doors with hardwood facing, hung to steel frames

3	44mm Door to suit aluminium frame size 900 x 2,100mm high.	<u>No</u>	1
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4	44mm Double door to suit aluminium frame size 1,500 x 2,100mm high.	<u>No</u>	1
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5	44mm Double door to suit aluminium frame size 1,600 x 2,100mm high.	<u>No</u>	6
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FITTINGS

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

Carried to Collection

Section No. 2
 Bill No. 7
 Carpentry And Joinery

N\$



	Rate	Amount
Carried to Collection	N\$	

Worktops: Work tops shall be continuous across floor units in 34 x 600mm composite board cut on site from lengths of 3600 to 4100mm post-formed on leading edge and laminated with 0.8mm formica and brown backer. (Colour to be approved by Architect). 'PG Bison' or similar approved 32mm thick Formica 'Lifeseal' or similar approved Worktop with Glaze surface finish with 90 degree profile, consisting of 'Formica' or similar approved High Pressure Laminated bonded to a moisture resistant 'Bisonbord' or similar approved Particleboard substrate with 'Decon Brown' or similar approved laminate backer, manufactured in accordance with SANS ISO 4586:1995 and constructed in accordance with Architect's joinery detail drawings.

Carcass: Carcass shall be of 16mm thick 'PG Bison'melawood or similar approved edged on all exposed faces with 3mm thick 'Raukantex' or similar approved edging.

Backs: 6.4mm Thick enameled pre-painted masonite hardboard screwed to carcass at 150mm center to center.

Sides, Shelves and Doors: Sides, shelves and doors be of 'PG Bison'melawood or similar approved edged on all exposed faces with 3mm thick 'Raukantex' or similar approved edging. Sides to be pre-drilled and grooved for assembly. Doors to be pre-drilled for hinges.

Kickplates: 100mm High stainless steel kick plates.

Drawers: Drawer body shall be of 'PG Bison' or similar approved 16mm thick melawood sides, back and edged with 3mm PVC edging to all exposed edges. Bottoms to be 3.2mm hardboard white let into body. Front to be of 16mm melawood with 3mm PVC edging. Drawer runners shall be of 'Dynaslide' or similar approved self closing with nylon wheels. All manufactured in accordance with SANS 1763:1998 and constructed in accordance with Architect's joinery detail drawings.

Handles: Handles shall be 'Roco' or similar approved stainless steel tubular handles

Locksets: Union'or similar approved straight flush bolt with striker plate suitable for cupboards

Hinges: Hinges shall be of 110 degrees recessed spring-loaded type 'Hafele' or similar approved, fitted to pre-drilled unit doors. Shelf support: Shelf support shall be 'Hafele' or similar approved 282.01.505 and 282.01.508

Kitchen cupboards etc:

6 Kitchen cupboard 1,800 x 600 x 900mm high with sides, bottom, divisions, shelf, back and double hinged doors (sink elsewhere) (JS03).

No 1

7 Kitchen cupboard 3,000 x 600 x 900mm high with sides, bottom, divisions, shelf, back and double hinged doors (sink elsewhere) (JS02).

No 2



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Rate

Amount

8 Kitchen cupboard 3,540 x 600 x 900mm high with sides, bottom, divisions, shelf, back and double hinged doors (sink elsewhere) (JS01).

No 1

COUNTER TOPS, ETC

Approved quartz stone counter top with 150mm high stone edging on one edge fixed at 1100mm above finished floor level (colour to architect)

9 20mm thick x 600mm wide counter tops.

m 81

Carried to Collection

N\$

Section No. 2
Bill No. 7
Carpentry And Joinery



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Amount

BILL NO. 7
CARPENTRY AND JOINERY
COLLECTION

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N\$

Section No. 2
Bill No. 7
Carpentry And Joinery



	Rate	Amount
Carried to Collection		
	N\$	

SECTION NO. 2

MAIN BUILDING

BILL NO. 8

CEILING PARTITIONS AND ACCESS FLOORING

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.

SUSPENDED CEILINGS

"OWAcoustic Cosmos 68/N' suspended ceiling system formed of aluminium pre painted white 'Donn T38' or similar approved main tees at 450 x 450mm centres and 'Donn T38' or similar approved cross tees at 600mm centres to form a 600 x 600mm ceiling grid, filled in with and including ÓWAcoustic Crater' or similar approved ceiling tiles and hung with and including galvanised hangers all installed to manufacturer's instructions:

1	Ceilings suspended not exceeding 1m below steel purlins.	m ² <u>1482</u>
2	Extra over ceiling for opening for 600 x 600mm light fitting	No <u>266</u>
3	Extra over ceiling for 600 x 600mm opening for ventilation grille/air conditioning diffuser	No <u>22</u>
9.5mm 'Rhino' Gypsum plasterboard on screw-up tee suspension grid including hangers etc., with tape fixed over joints and the whole finished with 3mm 'Rhinolite' skim plaster trowelled to a smooth polished surface		
4	Ceilings suspended not exceeding 1m below precast concrete soffits.	m ² <u>147</u>
5	Extra over ceiling for opening for 100mm diameter downlighter	No <u>30</u>
Shadowline cornices		
6	45 x 33mm Standard shadowline cornice (Code SM25) or similar approved.	m <u>1807</u>



Rate Amount

METAL CEILINGS

0.5mm full hard galvanised inverted IBR steel profiled sheeting in single length sheets fixed to underside of steel purlins at 1,500mm centres in accordance with the manufacturer's instructions.

7 Ceilings.
m² 456

8 Extra over ceiling for opening for 660 x 660mm trap door access panel of two x 50 x 75 x 5mm angle section framing welded together and to purlin ceiling rails.
No 2

Metal cornices:

9 Cornice of 75 x 50 x 5mm mild steel angle iron fixed to IBR ceilings.
m 502

PARTITIONS ETC

'BPB Gypsum Rhinoboard Drywall System 1/30' consisting of 63.5mm Drywall Ultrasteel studs at 600mm centres fixed into 51mm top and bottom track with one layer of 12,5mm Taper-edged 'Rhinoboard' on both sides fixed with 25mm Drywall screws (½ hour fire rating):

10 Partitioning 3,000m high with bottom track plugged and top track fixed to suspended ceiling tees.
m 64

11 Extra over partition 3,000mm high for vertical abutment including 89mm natural anodised 'Drywall' aluminium wall channel code 1594.
No 4

12 Extra over partition 3,000mm high for corner.
No 6

13 Extra over partition 3,000mm high for T-intersection.
No 6

14 Extra over Drywall partition for standard 'Drywall timber door frame to suite door size 813 x 2032mm high including door frame side gasket with one pair of 100mm nylon washered aluminium hinges and additional studding, trimming, etc (lockset elsewhere).
No 9

Carried to Collection

N\$

Section No. 2
Bill No. 8
Ceilings Partitions And Access Flooring



Transkalahari Border Post
Amount

BILL NO. 8
CEILINGS PARTITIONS AND ACCESS FLOORING
COLLECTION

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Carried To Section Summary

N\$

Section No. 2
Bill No. 8
Ceilings Partitions And Access Flooring



Rate

Amount

SECTION NO. 2

MAIN BUILDING

BILL NO. 9

IRONMONGERY

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.

HINGES, BOLTS, ETC.

'Dorma' or similar approved:

1	DFB-SS-027 160mm stainless steel manual flush bolt.	No	7
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2	DFB-SS-028 300mm stainless steel manual flush bolt.	No	7
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DOOR FURNITURE

'Dorma' or similar approved:

3	Dorma D02635SS stainless steel narrow stile sash lock with European profile cylinder, with 35mm backset and 20mm throw.	No	88
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4	Dorma D032D SS stainless steel bathroom dead lock.	No	27
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5	Dorma DWC-005 SS stainless steel bathroom WC indicator and turnknob.	No	23
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6	Dorma DWC-006 SS stainless steel bathroom WC indicator and turnknob.	No	5
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7	Dorma D037D SS stainless steel cylinder dead lock.	No	24
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8	Dorma DDC206301 MK 63mm five pin Euro-profile double cylinder grand master keyed in satin nickel finish.	No	103
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9	Dorma TH120 Cyl SS stainless steel lever handle on rose with cylinder escutcheons.	Sets	65
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Carried to Collection

N\$

Section No. 2
 Bill No. 9
 Ironmongery



10	Dorma DCE-105 SS stainless steel narrow stile cylinder escutcheon.	<u>Pairs</u>	<u>25</u>
11	Dorma DRP-SS-023 62 x 44mm stainless steel ring flush pull handle.	<u>No</u>	<u>8</u>
12	Dorma DHK204101 satin nickel 41mm half knob cylinder.	<u>No</u>	<u>8</u>
13	Dorma DCE-002 stainless steel round cylinder escutcheon.	<u>No</u>	<u>8</u>
14	Dorma DPH301C stainless steel straight tubular pull handle.	<u>Pairs</u>	<u>39</u>
15	Dorma DHP-430-CL-SF size 170 x 170mm stainless steel plate (with cylinder cutout).	<u>No</u>	<u>14</u>
16	Dorma DHP-430-BL-SF size 100 x 200mm stainless steel plate (with no cylinder cutout).	<u>No</u>	<u>27</u>
17	Dorma DPH301A BTB stainless steel 325 X 25mm straight tubular pull handle.	<u>Pairs</u>	<u>9</u>
18	Dorma DPH215 BTB stainless steel 382 X 32mm D shaped offset tubular pull handle.	<u>Pairs</u>	<u>11</u>
PUSH PLATES AND KICKING PLATES			
'Dorma' or similar approved:			
19	Dorma DKP-430-SF-200 size 1.2 x 813 x 200mm high stainless steel kick plate.	<u>No</u>	<u>18</u>
SUNDRIES			
'Dorma' or similar approved:			
20	Dorma DDS-NP-018 nickel plated floor mounted door stop.	<u>No</u>	<u>67</u>

Carried to Collection

Rate

Amount

N\$

Section No. 2
Bill No. 9
Ironmongery



		Rate	Amount
21	Dorma DHC-SS-031B stainless steel hat and coat hook with rubber buffer.	<u>No 23</u>	
22	Dorma DCE-105 stainless steel floor mounted door stop.	<u>No 62</u>	
23	Dorma CH 150 satin chrome cabin hook.	<u>No 24</u>	
24	Dorma DPS-SS-032 stainless steel dust proof strike.	<u>No 23</u>	
DOOR CLOSERS			
'Dorma' or similar approved:			
25	Dorma TS90-SL EN 3/4 Cam action slide channel non hold open closer complete.	<u>No 35</u>	
26	Dorma TS73V DC-SL EN 2-4 regular arm delayed action door closer complete.	<u>No 5</u>	
LETTERS, NAMEPLATES, ETC.			
'Dorma' or similar approved:			
27	Dorma DSS-130 M 150 x 150mm stainless steel Male sign plate.	<u>No 2</u>	
28	Dorma DSS-131 F 150 x 150mm stainless steel Female sign plate.	<u>No 2</u>	
29	Dorma DSS-133 P 150 x 150mm stainless steel Disabled Persons signn plate.	<u>No 4</u>	
30	Dorma DSS-132 MF 150 x 150mm Stainless steel Male / Female sign plate.	<u>No 11</u>	
31	150 x 150mm Stainless steel door name plate.	<u>No 15</u>	
	Carried to Collection		
		N\$	

Section No. 2
 Bill No. 9
 Ironmongery



		Rate	Amount
Escape route and fire escape signs: "MDC" or similar approved signs photoluminescent signage in SABS 1186 certified ABS plastic and all signs to be decal type mounted onto 2.5mm thick natural anodised aluminium back plate with 5mm borders space all round and fixed to doors/walls:			
32	"MDC26" Fire extinguisher, fire hose, and escape route pictogram	<u>No</u> 5	
33	"MDC72" Fire exit sign	<u>No</u> 2	
300 x 100 x 1.2mm Galvanised mild steel similar or approved plate sign with black engraved letter 30mm high with counter-sunk fixing holes plugged and screwed with galvanised mild steel screws. Adhesive vinyl graphics and lettering fixed to doors:			
34	Plates with letter between 6 to 12 characters.	<u>No</u> 12	
35	Plates with letter between 12 to 18 characters.	<u>No</u> 6	
36	Plates with letter between 18 to 24 characters.	<u>No</u> 4	
BATHROOM FITTINGS			
'Franke' or similar approved:			
37	'Rodan' RODX672 Grade 304 18/10 stainless steel wall mounted double toilet paper holder, plugged and screwed to the wall with stainless steel screws.	<u>No</u> 22	
38	'Rodan' RODX619 Grade 304 18/10 stainless steel soap dispenser size 241 x 86 x 243mm plugged and screwed to wall with stainless steel screws.	<u>No</u> 34	
39	'Rodan' RODX605 Grade 304 18/10 stainless steel wall mounted waste bin size 355 x 168 x 460mm plugged and screwed to wall with stainless steel screws.	<u>No</u> 14	
40	'Rodan' RODX611 Grade 304 18/10 stainless steel sanitary towel bin plugged and screwed to wall with stainless steel screws.	<u>No</u> 9	
	Carried to Collection		
		N\$	

Section No. 2
 Bill No. 9
 Ironmongery



		Rate	Amount
41	'Rodan' RODX191 Grade 304 18/10 stainless steel hygiene bag dispenser plugged and screwed to wall with stainless steel screws.	<u>No 10</u>	
42	'Rodan' HF2400HD 2500001 Grade 304 18/10 stainless steel hand free hand dryer plugged and screwed to wall with stainless steel screws.	<u>No 8</u>	
'Icon' or similar approved:			
43	ICON B037 white toilet paper holder.	<u>No 4</u>	
'Railman' or similar approved:			
44	DL2 Stainless steel 2-flanged side grab rail.	<u>No 4</u>	
45	SR2 Stainless steel cistern grab rail.	<u>No 4</u>	
PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC			
'Vitrex' or similar approved:			
46	System 2000 Code 2316 pinning board 1,200 x 1,200mm high plugged.	<u>No 2</u>	
47	System 2000 Code 2307 pinning board 1,500 x 1,200mm high plugged.	<u>No 1</u>	
48	System 2000 Code 2308 pinning board 2,000 x 1,200mm high plugged.	<u>No 1</u>	
		Carried to Collection	N\$

Section No. 2
 Bill No. 9
 Ironmongery



Transkalahari Border Post
Amount

BILL NO. 9
IRONMONGERY
COLLECTION

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Section No. 2
Bill No. 9
Ironmongery



		Rate	Amount
STEEL TRUSSES			
Welded roof trusses of angle rafters, tie beams, rails, struts, braces, cleats, etc. and flat bearer, gusset and connection plates, bolted to steel			
9	Monopitched trusses 1.4 x 0.5m high extreme (In No 4)		
		<u>Kg</u>	<u>114</u>
10	Monopitched trusses 2.9 x 0.8m high extreme (In No 6)		
		<u>Kg</u>	<u>344</u>
11	Monopitched trusses 2.9 x 0.8m high extreme (In No 3)		
		<u>Kg</u>	<u>175</u>
12	Monopitched trusses 2.9 x 0.8m high extreme (In No 4)		
		<u>Kg</u>	<u>227</u>
13	Monopitched trusses 2.9 x 1.2m high extreme (In No 2)		
		<u>Kg</u>	<u>170</u>
14	Double pitched trusses 3.2 x 0.5m high extreme (In No 2)		
		<u>Kg</u>	<u>124</u>
15	Monopitched trusses 3.4 x 0.9m high extreme (In No 1)		
		<u>Kg</u>	<u>63</u>
16	Monopitched trusses 3.9 x 1.1m high extreme (In No 6)		
		<u>Kg</u>	<u>485</u>
17	Monopitched trusses 3.9 x 1.1m high extreme (In No 6)		
		<u>Kg</u>	<u>501</u>
18	Monopitched trusses 4.1 x 0.9m high extreme (In No 2)		
		<u>Kg</u>	<u>156</u>
19	Monopitched trusses 4.2 x 0.8m high extreme (In No 4)		
		<u>Kg</u>	<u>267</u>
20	Monopitched trusses 4.3 x 1.2m high extreme (In No 2)		
		<u>Kg</u>	<u>162</u>
21	Monopitched trusses 4.4 x 1.8m high extreme (In No 1)		
		<u>Kg</u>	<u>251</u>
	Carried to Collection		
		N\$	
Section No. 2			
Bill No. 10			
Structural Steelwork			



		Rate	Amount
22	Monopitched trusses 4.8 x 0.9m high extreme (In No 2)		
	Kg	<u>169</u>	
23	Monopitched trusses 5.5 x 1.8m high extreme (In No 4)		
	Kg	<u>541</u>	
24	Monopitched trusses 6.2 x 1.8m high extreme (In No 2)		
	Kg	<u>103</u>	
25	Double pitched trusses 6.7 x 0.9m high extreme (In No 2)		
	Kg	<u>238</u>	
26	Double pitched trusses 6.7 x 0.9m high extreme (In No 2).		
	Kg	<u>229</u>	
27	Double pitched trusses 8.8 x 1.9m high extreme (In No 5)		
	Kg	<u>986</u>	
28	Double pitched trusses 10.5 x 1.4m high extreme (In No 5)		
	Kg	<u>1014</u>	
29	Double pitched trusses 10.5 x 1.5m high extreme (In No 7)		
	Kg	<u>939</u>	
30	Double pitched trusses 11.9 x 1.7m high extreme (In No 2)		
	Kg	<u>470</u>	
Bolts to trusses, etc:			
31	High tensile grade 8.8 bolts		
	Kg	<u>56</u>	
32	M12 holding down bolts.		
	No	<u>96</u>	
33	M16 chemical expansion bolt.		
	No	<u>80</u>	
34	M20 chemical expansion bolt.		
	No	<u>32</u>	
		Carried to Collection	
Section No. 2			
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Structural Steelwork			
		N\$	



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		Rate	Amount
35	Base plate 280 x 280 x 10mm four times holed for M16 chemical anchor bolts welded to columns.	<u>No</u> 20	
36	End plate 200 x 200 x 12mm four times holed for M12 chemical anchor bolts welded to columns.	<u>No</u> 9	
37	Mounting plate 220 x 210 x 10mm twice holed for M20 chemical anchor bolts welded to trusses.	<u>No</u> 16	
STEEL PURLINS, GIRTS, BRACING, ETC			
Purlins and girts, bolted to steel			
38	75 x 50 x 20 x 3mm Thick cold-formed lipped channel purlins	<u>Kg</u> 278	
39	100 x 50 x 20 x 2.5mm Thick cold-formed lipped channel purlins	<u>Kg</u> 4259	
40	175 x 65 x 20 x 3mm Thick cold-formed lipped channel purlins	<u>Kg</u> 1753	
	Carried to Collection		
		N\$	

Section No. 2
 Bill No. 10
 Structural Steelwork



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Amount

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STRUCTURAL STEELWORK
COLLECTION

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Section No. 2
Bill No. 10
Structural Steelwork



Rate Amount

SECTION NO. 2

MAIN BUILDING

BILL NO. 11

METALWORK

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.

THE FOLLOWING IN STEEL LOURVES, ETC (PROVISIONAL)

Welded frames:

1 100 x 50 x 5mm Rectangular hollow section frames welded.
m 187

1mm Mild Steel Sheet bent on edges:

2 Rectangular lourve size 1,500 x 1,000mm.
No 35

3 Triangular lourve size 3,200 x 1,700 x 1,700mm.
No 6

Sundry steelwork:

4 80 x 80 x 6mm Square hollow section columns 600mm high welded to baseplates (elsewhere measured).
No 6

5 100 x 100 x 6mm Square hollow section columns 600mm high welded to baseplates (elsewhere measured).
No 10

6 100 x 6mm Circular hollow section columns 250mm high welded to baseplates (elsewhere measured).
No 5

SCREENS, GATES, ETC.

Steel Gates:

7 Purpose made double swing gate and frame size 3,000 x 2,000mm formed of high of 50 x 50 x 5mm square hollow section frame filled in with Mentis rectagrid RS40 or similar approved and fitted with a pair of suitable hinges welded to frame complete fitted with all ironmongery as per manufacturer's instructions (SG1).
No 2

Carried to Collection

N\$

Section No. 2
Bill No. 11
Metalwork



Transkalahari Border Post

		Rate	Amount
17	Aluminium window size 900 x 2,400mm high (W33).	No <u>1</u>	
18	Aluminium window size 1,200 x 2,400mm high (W10).	No <u>4</u>	
19	Aluminium window size 1,500 x 1,500mm high (W15).	No <u>13</u>	
20	Aluminium window size 2,000 x 600mm high (W09).	No <u>1</u>	
21	Aluminium window size 2,000 x 1,200mm high (W12).	No <u>1</u>	
22	Aluminium window size 2,000 x 1,800mm high (W16).	No <u>9</u>	
23	Aluminium window size 2,400 x 600mm high (W11).	No <u>4</u>	
24	Aluminium window size 2,400 x 1,200mm high (W05).	No <u>10</u>	
25	Aluminium window size 2,400 x 1,200mm high (W13).	No <u>1</u>	
26	Aluminium window size 3,000 x 1,800mm high (W17).	No <u>4</u>	
27	Aluminium window size 3,560 x 600mm high (W18).	No <u>2</u>	
28	Aluminium window size 4,620 x 600mm high (W19).	No <u>2</u>	
	Carried to Collection		
		N\$	

Section No. 2
 Bill No. 11
 Metalwork



Rate Amount

Purpose made natural anodised aluminium windows in Ekonal F42 system to AAAMSA standards as described glazed with specialised one way 6.38mm thick laminated safety complete with subframes, ironmongery, glass, sealing, etc and plugged to brickwork or concrete as per manufacturer's instructions:

29 Aluminium clerestorey fixed window size 1,800 x 600mm high (W20).
No 2

30 Aluminium clerestorey fixed window size 2,350 x 600mm high (W21).
No 4

31 Aluminium clerestorey fixed window size 4,570 x 600mm high (W22).
No 7

Purpose made natural anodised aluminium windows in Ekonal F42 system to AAAMSA standards as described glazed with clear 6.38mm thick laminated safety complete with subframes, ironmongery, glass, sealing, etc and plugged to brickwork or concrete as per manufacturer's instructions:

32 Aluminium counter window size 470 x 1,100mm high (W31).
No 1

33 Aluminium counter window size 500 x 1,100mm high (W28).
No 4

34 Aluminium counter window size 1,500 x 1,100mm high (W32).
No 2

35 Aluminium counter window size 1,570 x 1,100mm high (W30).
No 1

36 Aluminium counter window size 1,900 x 1,100mm high (W29).
No 1

37 Aluminium counter window size 2,270 x 1,100mm high (W23).
No 2

38 Aluminium counter window size 3,000 x 1,100mm high (W26).
No 7

39 Aluminium counter window size 3,700 x 1,100mm high (W24).
No 1

Carried to Collection

N\$

Section No. 2
Bill No. 11
Metalwork



		Rate	Amount
40	Aluminium counter window size 4,500 x 1,100mm high (W27).		
	No <u>3</u>		
41	Aluminium counter window size 4,650 x 1,100mm high (W25).		
	No <u>6</u>		
ALUMINIUM DOORS.			
Purpose made natural anodised aluminium doors to AAAMSA standards glazed with 6.38mm thick clear laminated safety glass to receive white frosting and plugged to brickwork or concrete:			
42	Single door frame size 900 x 2,100mm high overall (Ironmongery elsewhere measured) (D14).		
	No <u>2</u>		
43	Double door frame size 1,500 x 2,100mm high overall (Ironmongery elsewhere measured) (D16).		
	No <u>1</u>		
44	Double door frame size 1,600 x 2,100mm high overall (Ironmongery elsewhere measured) (D15).		
	No <u>6</u>		
45	Single swing door and frame size 900 x 2,100mm high overall with standard louver unit (Ironmongery elsewhere measured) (D07).		
	No <u>11</u>		
46	Single swing door and frame size 900 x 2,100mm high overall (Ironmongery elsewhere measured) (D08).		
	No <u>38</u>		
47	Double swing door and frame size 1,350 x 2,100mm high overall (Ironmongery elsewhere measured) (D12).		
	No <u>3</u>		
Purpose made powder coated (colour charcoal grey) aluminium doors to AAAMSA standards glazed with 6.38mm thick clear laminated safety glass to receive white frosting plugged to brickwork or concrete:			
48	Single swing door and frame size 900 x 2,400mm high overall (Ironmongery elsewhere measured) (D09).		
	No <u>9</u>		
	Carried to Collection		
		N\$	

Section No. 2
 Bill No. 11
 Metalwork



Transkalahari Border Post

		Rate	Amount
Purpose made powder coated (colour charcoal grey) aluminium doors to AAAMSA standards glazed with 6.38mm thick 'Shadowlite 25 laminated safety glass plugged to brickwork or concrete:			
49	Double swing door and frame size 1,800 x 2,100mm high overall (Ironmongery elsewhere measured) (D11).	<u>No 4</u>	
50	Double swing door and frame size 1,800 x 2,400mm high overall (Ironmongery elsewhere measured) (D10).	<u>No 7</u>	
ALUMINIUM SHOPFRONTS			
Purpose made natural anodised aluminium shopfronts in Ekonal F42 system to AAAMSA standards as described glazed with 8.38mm thick clear laminated safety glass with approved factory made tint including ironmongery (as specified on the drawings) and plugged to brickwork or concrete all as per manufacturer's instructions:			
51	Aluminium shopfront size 1,800 x 2,400mm high with and including single door complete (SHF01).	<u>No 2</u>	
52	Aluminium shopfront size 2,170 x 3,000mm high with and including single door complete (SHF02).	<u>No 2</u>	
53	Aluminium shopfront size 7,040 x 3,700mm high with and including two double doors complete (SHF03).	<u>No 1</u>	
54	Aluminium shopfront size 13,900 x 3,100mm high overall with and including one double door complete (SHF04).	<u>No 1</u>	
55	Aluminium shopfront size 16,230 x 3,100mm high overall with and including one double door complete (SHF05).	<u>No 1</u>	
STEEL RECORDROOM DOORS, VENTILATORS, ETC.			
'Mutual Safe' or similar approved recordroom doors etc suitable for 230mm walls fixed to brickwork or concrete complete with all ironmongery all as per manufacturer's strict instructions:			
56	DS1 6mm record room door and frame 830 x 1,935mm high overall.	<u>No 4</u>	
		Carried to Collection	N\$
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Metalwork			



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		Rate	Amount
57	Double ended strongroom ventilator.	<u>No 4</u>	
ALUMINIUM LOUVRE DOORS, UNITS, ETC			
Powder coated aluminium (charcoal grey) fixed louvre units fixed to brickwork or concrete			
58	Purpose made louvre unit for 600 x 900mm high opening (W01).	<u>No 1</u>	
59	Purpose made louvre door and frame for 750 x 2,400mm high opening complete with ironmongery as per manufacturer's instructions (D17).	<u>No 2</u>	
Standard natural anodised aluminium door grille fixed to timber doors as per manufacturer's instructions:			
60	Door grille size 500 x 500mm high.	<u>No 14</u>	
		Carried to Collection	N\$
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Bill No. 11			
Metalwork			



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METALWORK
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Section No. 2
Bill No. 11
Metalwork



Rate

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SECTION NO. 2
MAIN BUILDING
BILL NO. 12
PLASTERING

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.

SCREEDS

Screeds on concrete:

1 40mm Thick on floors and landings.
m² 2106

INTERNAL PLASTER

Cement plaster on brickwork:

2 On walls.
m² 4715

3 On narrow widths.
m² 56

Cement plaster rendering coat with 'Rhinolite' skim plaster finishing coat, on concrete

4 On ceilings
m² 54

EXTERNAL PLASTER

Cement plaster on brickwork:

5 On walls.
m² 1714

6 On narrow widths.
m² 56

Carried To Section Summary

N\$

Section No. 2
Bill No. 12
Plastering



Rate Amount

SECTION NO. 2

MAIN BUILDING

BILL NO. 13

TILING

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.

WALL TILING

'Link Sirius Ice' or similar approved 300 x 600mm full bodied glazed porcelain floor tiles fixed with adhesive to and including 20mm concrete bedding on concrete and flush pointed with tinted waterproofing jointing compound:

1	On walls.	m ² <u>788</u>
2	On walls in isolated panels, splashbacks, etc.	m ² <u>6</u>
3	On narrow widths.	m ² <u>3</u>

'Dimo Creacon 60N' or similar approved 600 x 600mm glazed full bodied porcelain floor tiles fixed with adhesive to and including 20mm concrete bedding on concrete and flush pointed with tinted waterproofing jointing compound

4	On walls	m ² <u>86</u>
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FLOOR TILING

'Dimo Creacon BT 60G' or similar approved 600 x 600mm rustic full bodied porcelain floor tiles fixed with adhesive to and including 20mm concrete bedding on concrete and flush pointed with tinted waterproofing jointing compound:

5	On floors and landings	m ² <u>249</u>
6	Cut tile skirting 100mm high	m <u>144</u>

Carried to Collection

N\$

Section No. 2
Bill No. 13
Tiling



Rate Amount

	'Dimo Creacon 60N' or similar approved 600 x 600mm glazed full bodied porcelain floor tiles fixed with adhesive to and including 20mm concrete bedding on concrete and flush pointed with tinted waterproofing jointing compound:	
7	On floors and landings	
		<u>m² 105</u>
	'Dimo Creacon BT 60B' or similar approved 600 x 600mm glazed full bodied porcelain floor tiles fixed with adhesive to and including 20mm concrete bedding on concrete and flush pointed with tinted waterproofing jointing compound:	
8	On floors and landings	
		<u>m² 359</u>
9	Cut tile skirting 100mm high	
		<u>m 269</u>
	'Dimo Creacon R 60W' or similar approved 600 x 600mm glazed full bodied porcelain floor tiles fixed with adhesive to and including 20mm concrete bedding on concrete and flush pointed with tinted waterproofing jointing compound:	
10	On floors and landings.	
		<u>m² 363</u>
11	Cut tile skirting 100mm high	
		<u>m 292</u>
	'Link Sirius Silver' or similar approved 600 x 600mm glazed full bodied glazed porcelain floor tiles fixed with adhesive to and including 20mm concrete bedding on concrete and flush pointed with tinted waterproofing jointing compound:	
12	On floors and landings	
		<u>m² 994</u>
13	Cut tile skirting 100mm high	
		<u>m 1128</u>
	'Link Sirius Ice' or similar approved 600 x 600mm full bodied glazed porcelain floor tiles fixed with adhesive to and including 20mm concrete bedding on concrete and flush pointed with tinted waterproofing jointing compound:	
14	On floors and landings	
		<u>m² 246</u>

Carried to Collection

N\$

Section No. 2
Bill No. 13
Tiling



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		Rate	Amount
15	Cut tile skirting 100mm high	<u>m</u> 152	
NOSINGS, JOINT COVERS, PROTECTORS, ETC.			
'Schulter' or similar approved:			
16	'Schluter Schiene Type AE 100' or similar approved brushed aluminium tile edge trim cut to lengths and bedded in tile adhesive.	<u>m</u> 1811	
17	'Schluter Schiene Type Trep E' or similar approved stair nosings.	<u>m</u> 12	
18	'Schluter Schiene Type Deco AE' or similar approved dividing strips between tiles.	<u>m</u> 33	
19	'Schluter Schiene Type Ronde AE' or similar approved tile edge trim.	<u>m</u> 46	
20	'Schluter Schiene Type Dilex KS/KSA' or similar approved single expansion joint strips with rubber inlay.	<u>m</u> 126	
		Carried to Collection	N\$

Section No. 2
 Bill No. 13
 Tiling



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TILING
COLLECTION

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Section No. 2
Bill No. 13
Tiling



Rate	Amount
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SECTION NO. 2

MAIN BUILDING

BILL NO. 14

PLUMBING AND DRAINAGE (PROVISIONAL)

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.

SUPPLEMENTARY PREAMBLES

uPVC pressure pipes and fittings:

Pipes for water supply shall be of the class stated.

Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings.

Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints.

Copper pipes:

Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be 'Cobra Watertech' type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.

Fixing of pipes

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level

Reducing fittings:

Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.

Exposed concrete surfaces:

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

Excavations:

No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.

Section No. 2
Bill No. 14
Plumbing And Drainage (provisional)



Rate	Amount
Carried to Collection	
N\$	

Flush pans:
Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary.

Stainless steel basins, sinks, wash troughs, urinals, etc:
Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.

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

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

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SAB.

Sanitary fittings:
Prices for sanitary fittings are to include for the application of silicone sealant or equivalent wherever sanitary fittings make contact with wall finishes, floor finishes, vanity tops, bathroom fittings, etc.

RAINWATER DISPOSAL

0.6mm Galvanised sheet iron:

1	150 x 50mm Eaves gutters.	<u>m</u>	142
2	Extra over 150 x 50mm eaves gutter for stopped end.	<u>No</u>	12
3	Extra over 150 x 50mm eaves gutter for angle.	<u>No</u>	12
4	Extra over 150 x 50mm eaves gutter for outlet for 150 x 75mm pipe.	<u>No</u>	12
5	100 x 75mm Rainwater pipes.	<u>m</u>	68
6	Extra over 100 x 75mm rainwater pipe for bend.	<u>No</u>	10



Rate

Amount

7 Extra over 100 x 75mm rainwater pipe for shoe.
No 8

8 Extra over 100 x 75mm rainwater pipe for eaves or plinth offset 1380mm projection.
No 12

SANITARY FITTINGS

'Lecico' or similar approved vitreous china WC suites:

9 'Lecico' Paraplegic boxed suite complete with 110mm Sv White Universal Extendable Pan Connector, Schlo"sser 7111 - 1/2" x 1/2" (15x15mm) Chrome Angle Valve Body and HNC 1/2"x1/2" 350mm Long FxF Flexi Connector HCVBC350S.
No 4

'Beta' or similar approved:

10 'Marina'XTMAS08A white TFL close couple box suite with toilet seat complete with Schlo"sser 7111 - 1/2" x 1/2" (15x15mm) Chrome Angle Valve Body, HNC 1/2"x1/2" 450mm Long FxF Flexi Connector HCVBC450S, 110mm Sv White Universal Extendable Pan Connector and BBU SERIE 4600 / 4638POLLS - Stainless Steel Polished Toilet Brush Set.
No 22

11 Betta Courier / WBDC0208A White 550 x 410mm wall hung basin complete with Adolf Schmidt' 471400 - M10 x 140mm universal screw basin fixation set and Schlo"sser 7105/7205 - 1/2"x3/8" (15x10mm) Chrome Angle Valve Body.
No 4

12 Betta Courier / WBDC0208A White 550 x 410mm wall hung basin complete with Adolf Schmidt' 471400 - M10 x 140mm universal screw basin fixation set and Schlo"sser 7105/7205 - 1/2"x3/8" (15x10mm) Chrome Angle Valve Body.
No 30

'Duravit' or similar approved:

13 'Katja' code 0832320000 white back entry flatback urinal.
No 9

'Franke' or similar approved:

14 Franke 2630026 LDS Drip Sink 600 x 500 x 258mm complete with Cobra Brass 208-20 - 20mm waste.
No 2

Carried to Collection

N\$

Section No. 2
Bill No. 14
Plumbing And Drainage (provisional)



		Rate	Amount
15	Franke Quinline QLX621-120 1200 x 500mm DEB Sink 1990007 with Waste.	<u>No 3</u>	
WASTE UNIONS ETC			
'Cobra' or similar approved:			
16	Code 303-32 32mm x 1 1/4" Chrome Slotted Waste with and including plug (code 309-32).	<u>No 4</u>	
17	Cobra 317-40 40mm x 1 1/2" Chrome Unslotted Waste with Plug	<u>No 2</u>	
'König & Ronneberger ' or similar approved:			
18	Code 11.2340-001 - 30/40mm Universal Rubber .	<u>No 30</u>	
TRAPS ETC			
'Franke' or similar approved:			
19	Franke Spazio2 40x1 1/2" Double Bowl Grey Sink Trap Set 1120009	<u>No 3</u>	
'Geberit' or similar approved:			
20	Code 152.950.11.1 50mm horizontal urinal trap.	<u>No 9</u>	
'HNC' or similar approved:			
21	Bottle trap round with stainless steel tail pipe HCBTT Chrome	<u>No 34</u>	
'Dutton Plastics' or similar approved:			
22	40 x 32mm x1.1/4" White PVC Trap - Code DB1A	<u>No 2</u>	
TAPS, VALVES, ETC			
'Cobra' or similar approved:			
23	Wall type Light Pattern Hose Bibcock (code COB92208020).	<u>No 2</u>	
24	'Star'266/041/10 chromium plated 15mm wall type sink mixer.	<u>No 3</u>	
	Carried to Collection		
		N\$	

Section No. 2
 Bill No. 14
 Plumbing And Drainage (provisional)



Transkalahari Border Post

		Rate	Amount
'Hansgrohe' or similar approved:			
25	Focus 31911-000 Basin Mixer 100 Extended Handle Chrome	<u>No</u> 4	
'Schlösser' or similar approved:			
26	Code 7111 - 1/2" x 1/2" 15x15mm Chrome Angle Valve Body	<u>No</u> 22	
'Geberit' or similar approved:			
27	Geberit 116.015.KH.1 Urinal flush control for sigma 10 chromium plated.	<u>No</u> 9	
28	Geberit 119.704.16.1 - Spare 32mmx1 1/4" HDPE black urinal flush pipe	<u>No</u> 9	
29	Geberit 152.489.16.1 32mm urinal inlet connector	<u>No</u> 9	
30	Geberit 116.004.00.1 Universal urinal flush control installation set	<u>No</u> 9	
31	Geberit 152.489.16.1 32mm urinal inlet connector	<u>No</u> 9	
'Schulte' or similar approved:			
32	Álpha'100 / z058001 chrome basin mixer without waste set.	<u>No</u> 30	
SANITARY PLUMBING			
uPVC pipes:			
33	40mm Pipes.	<u>m</u> 44	
34	50mm Pipes.	<u>m</u> 63	
35	110mm Pipes.	<u>m</u> 87	
	Carried to Collection		
		N\$	

Section No. 2
 Bill No. 14
 Plumbing And Drainage (provisional)



		Rate	Amount
36	110mm Pipes fixed against the walls including wall brackets.	<u>m 24</u>	
	Extra over uPVC pipes for fittings:		
37	40mm Bend.	<u>No 33</u>	
38	50mm Bend.	<u>No 12</u>	
39	110mm Bend.	<u>No 18</u>	
40	40mm Junction.	<u>No 6</u>	
41	50mm Junction.	<u>No 6</u>	
42	50mm Reducing junction.	<u>No 8</u>	
43	110mm Pan connector.	<u>No 26</u>	
44	110 x 50mm Reducer.	<u>No 1</u>	
45	40mm Access bend.	<u>No 4</u>	
46	50mm Access bend.	<u>No 8</u>	
47	110mm Access bend.	<u>No 8</u>	
48	50mm Access junction.	<u>No 3</u>	
49	110mm Access junction.	<u>No 8</u>	
	Carried to Collection		
		N\$	

Section No. 2
Bill No. 14
Plumbing And Drainage (provisional)



		Rate	Amount
50	50mm Access reducing junction.	<u>No 6</u>	
51	110 x 40mm Eccentric reducer.	<u>No 4</u>	
52	110 x 50mm Eccentric reducer.	<u>No 4</u>	
53	50mm 'GI Two-way' vent valve.	<u>No 4</u>	
54	110mm Stub stack with one 110mm inlet, one 50mm inlet and one 40mm inlet.	<u>No 4</u>	
Sundries:			
55	110mm Diameter 'Besaans-du-Plessis' cast iron Code. 8314 overflow gully not exceeding 1,000mm deep to invert with outlet jointed to PVC pipe, set on and encased in reinforced concrete all as described for PVC gully.	<u>No 4</u>	
56	Unreinforced concrete 15Mpa/19mm encasing to horizontal pipe.	<u>m³ 1</u>	
57	Unreinforced concrete 15Mpa/19mm encasing to vertical pipe.	<u>m³ 1</u>	
WATER SUPPLIES			
Class O copper pipes:			
58	15mm Pipes.	<u>m 37</u>	
59	15mm Pipes chased into brick walls.	<u>m 28</u>	
60	22mm Pipes chased into brick walls.	<u>m 32</u>	
61	22mm Pipes.	<u>m 18</u>	
		Carried to Collection	N\$
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Plumbing And Drainage (provisional)			



		Rate	Amount
Extra over class O copper pipes for capillary fittings:			
62	15mm Fittings.	<u>No</u> 48	
63	22mm Fittings.	<u>No</u> 34	
ELECTRIC WATER HEATERS			
Stiebel Electron':			
64	5 Litre 'EBK 5GS' wall mounted 'mini' electric water heater above sink made up of glass complete with swivel outlet and fitted according to the manufacturer's instructions and specifications.	<u>No</u> 1	
TESTING			
Testing:			
65	Testing water pipe system.		Item
66	Testing drainage pipe system.		Item
FIRE APPLIANCES ETC.			
'Chubb':			
67	'Everyway' hose reel complete with 30m non-kinkable rubber hose 20mm internal diameter, chromium plated stopcock, shut-off nozzle and wall bracket complete with 25mm diameter Saunders type A diaphragm isolated valve.	<u>No</u> 5	
68	9kg Rechargeable dry chemical fire extinguisher complete with initial charge painted backing board plugged and screwed to plastered or tiled brick wall.	<u>No</u> 5	
WATER SUPPLIES TO FIRE APPLIANCES			
Galvanised steel pipes:			
69	25mm Pipes	<u>m</u> 58	
Extra over galvanised mild steel pipes for steel fittings:			
70	25mm Fittings	<u>No</u> 33	
		Carried to Collection	
			N\$

Section No. 2
 Bill No. 14
 Plumbing And Drainage (provisional)



		Rate	Amount
Sundries:			
71	Testing fire water pipe system.		
	Item		
LAGGING			
Paper lagging:			
72	Two layers of stout brown paper tightly wrapped around 15mm pipe and couplings and tied with wire prior to building in.		
	m	18	
73	Two layers of stout brown paper tightly wrapped around 22mm pipe and couplings and tied with wire prior to building in.		
	m	11	
74	Extra for wrapping around fittings.		
	No	26	
	Carried to Collection		
		N\$	

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 Plumbing And Drainage (provisional)



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PLUMBING AND DRAINAGE (PROVISIONAL)
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Section No. 2
Bill No. 14
Plumbing And Drainage (provisional)



Rate Amount

SECTION NO. 2

MAIN BUILDING

BILL NO. 15

GLAZING

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.

GLAZING TO STEEL WITH PUTTY

6.38mm Clear toughened safety glass

1	Panes exceeding 0,1m ² and not exceeding 0,5m ²	<u>m² 16</u>		
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TOPS, SHELVES, DOORS, MIRRORS, ETC.

'Franke' or similar approved Silvered float glass copper backed frameless mirrors with polished edges fixed with double sided adhesive tape:

2	CHRH 601 - 600 x 1 x 500mm mirror	<u>No 34</u>		
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Carried To Section Summary

N\$

Section No. 2
Bill No. 15
Glazing



Rate

Amount

SECTION NO. 2

MAIN BUILDING

BILL NO. 16

PAINTWORK

The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.

PAINTWORK ETC TO NEW WORK

ON INTERNAL FLOATED PLASTER SURFACES

One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use

1	Walls	m ²	4771
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ON EXTERNAL FLOATED PLASTER SURFACES

One coat alkali resistant primer and two coats premium quality polyurethane enamel paint

2	Walls	m ²	1770
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ON SMOOTH CONCRETE SURFACES

One coat 'Peralin' plaster primer, universal undercoat, and two coats 'Peralin' or similar approved superior quality acrylic emulsion paint for interior and exterior use, including stopping blow holes

3	Ceilings and beams	m ²	54
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ON PLASTERBOARD SURFACES

One coat 'Peralin' or similar approved plaster primer and two coats 'Peralin' superior quality acrylic emulsion paint for interior and exterior use, on work in good condition:

4	Walls.	m ²	384
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5	Ceilings and cornices	m ²	147
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Carried to Collection

N\$

Section No. 2
 Bill No. 16
 Paintwork



Rate

Amount

ON EXTERNAL FLOATED PLASTER SURFACES

Two coats superior quality acrylic emulsion paint for interior use, on work in poor condition

13	Walls	<u>m² 619</u>
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ON METAL SURFACES

Spot priming bare metal surfaces, one coat 'Neo Metal Primer, one coat 'Neo Universal Undercoat' and two coats 'Neo 'High Gloss enamel' metal paint (colour to Architect) or similar approved, on work in poor condition

14	Door frames	<u>m² 25</u>
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15	Members of roof trusses.	<u>m² 825</u>
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Carried to Collection

N\$

Section No. 2
Bill No. 16
Paintwork



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PAINTWORK
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Bill No. 16
Paintwork



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MAIN BUILDING
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SECTION SUMMARY



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SECTION NO. 3
EXTERNAL WORKS



		Rate	Amount
9	110mm Rodding eye	No <u>8</u>	
10	110mm Gulley not exceeding 300mm deep.	No <u>10</u>	
11	50mm Air vent valve	No <u>2</u>	
Manhole:			
12	Excavate for and build 1500 x 1500mm manhole chamber as described not exceeding 1m to invert with 30MPa concrete walls and concrete slabs, with screed finish to fall, including all necessary formwork, reinforcements, etc with step irons and manhole cover and frame (covers elsewhere measured).	No <u>7</u>	
13	Excavate for and build 1500 x 1500mm manhole chamber as described exceeding 1m but not exceeding 2m to invert with 30MPa concrete walls and concrete slabs, with screed finish to fall, including all necessary formwork, etc with step irons and manhole cover and frame (covers elsewhere	No <u>2</u>	
Cast iron covers etc.			
14	Securex Z-600D or similar and equally approved manhole cover, with and including frame	No <u>9</u>	
Sundries:			
15	Lifting key for manhole cover.	No <u>9</u>	
16	100mm Cast iron 'ABC' or similar approved cleaning eye.	No <u>9</u>	
17	Testing drainage pipe system.		Item
TAPS, VALVES, ETC			
Caston Iron:			
18	50mm Fullway gate valve including necessary adaptors	No <u>3</u>	
		Carried to Collection	N\$

Section No. 3
 Bill No. 1
 External Works (provisional)



		Rate	Amount
19	63mm Fullway gate valve including necessary adaptors	No <u>2</u>	
20	90mm Fullway gate valve including necessary adaptors	No <u>5</u>	
	Brass:		
21	25mm Fullyway gate Bibcock with hose union	No <u>6</u>	
	WATER SUPPLIES		
	Class PN10 HDPE pressure pipes:		
22	20mm Pipes laid in and including trenches	m <u>74</u>	
23	25mm Pipes laid in and including trenches	m <u>134</u>	
24	32mm Pipes laid in and including trenches	m <u>37</u>	
25	40mm Pipes laid in and including trenches	m <u>89</u>	
26	63mm Pipes laid in and including trenches	m <u>736</u>	
	Extra over HDPE pressure pipes for Class PN10 'Plasson' or similar approved pressure fittings:		
27	25mm Bend	No <u>25</u>	
28	40mm Tee	No <u>15</u>	
29	40mm Junction	No <u>14</u>	
30	63mm Bend	No <u>7</u>	
	Carried to Collection		
		N\$	

Section No. 3
 Bill No. 1
 External Works (provisional)



		Rate	Amount
31	63mm Junction	No <u>12</u>	
	Sundries:		
32	300 x 300 x 100mm Meter or valve box including brick chamber below not exceeding 1000mm deep internally; chamber made up of 110mm walls internally plastered including 'Besaans-du Plessis' or similar approved hinged cover and frame.	No <u>4</u>	
	TESTING		
	Testing:		
33	Testing water pipe system	Item	
	FIRE APPLIANCES ETC.		
	'Chubb' or similar approved:		
34	100mm Diameter 2500 kPa pressure gauge syphon and stopcock including tapped hole in steel pipe.	No <u>6</u>	
35	80 x 65mm Brass right angle hydrant valve with cap and chain.	No <u>6</u>	
36	80 x 65mm Brass double booster pump connection with caps and chains.	No <u>6</u>	
	Fire hydrant pedestals:		
37	Unreinforced concrete hydrant pedestal 900mm high cast around vertical pipe with bottom 300mm below ground, 300 x 300mm square at base and tapering to octagonal shaped top 200 x 200mm overall including necessary excavation, formwork and two coats of paint to exposed surfaces.	No <u>6</u>	
	WATER SUPPLIES TO FIRE APPLIANCES		
	Class 16 uPVC pressure pipes:		
38	32mm Pipes laid in and including trenches.	m <u>100</u>	
39	90mm Pipes laid in and including trenches.	m <u>174</u>	
	Carried to Collection		
	Section No. 3		
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	External Works (provisional)		
		N\$	



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		Rate	Amount
40	110mm Pipes laid in and including trenches.		
		<u>m</u>	<u>753</u>
	Extra over uPVC pipes for uPVC class 12 compression pressure fittings:		
41	100 x 90mm Reducer.		
		<u>No</u>	<u>15</u>
42	90 x 32mm T-Reducer.		
		<u>No</u>	<u>22</u>
43	110 uPVC to 90 GMS adaptor.		
		<u>No</u>	<u>4</u>
44	110 Elbow/Bend.		
		<u>No</u>	<u>4</u>
45	110mm Tee.		
		<u>No</u>	<u>6</u>
46	110mm Flange adaptor.		
		<u>No</u>	<u>7</u>
	Galvanised steel pipes:		
47	25mm Pipes.		
		<u>m</u>	<u>96</u>
	Extra over galvanised steel pipes for steel fittings:		
48	25mm Fittings		
		<u>No</u>	<u>35</u>
	TESTING		
	Testing:		
49	Testing to fire water system.		
			Item
			Carried to Collection
		N\$	

Section No. 3
 Bill No. 1
 External Works (provisional)



		Rate	Amount
ROADWORK, PARKING AREAS AND PAVING			
Open face excavation to form platform:			
50	Open face excavation to form platform under roads, parking areas, etc and depositing excavated material over site including haulage not exceeding 1km from perimeter of excavation	<u>m³ 2566</u>	
Extra over for excavation in:			
51	Soft rock.	<u>m³ 385</u>	
52	Hard rock.	<u>m³ 513</u>	
Surface preparation, etc:			
53	Roadbed preparation, etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93 % Mod AASHTO density (materials to comply with CBR >25%)	<u>m² 20590</u>	
Earth filling from excavated material:			
54	Under roads, walkways, etc	<u>m³ 424</u>	
Earth filling supplied by the contractor under pavings etc			
55	Over site of G7 material in accordance with SABS 1200ME, stabilised to attain UCS > 1,0 MPa after seven days and compacted to 93% Mod AASHTO density.	<u>m³ 2031</u>	
56	Over site of G5 material in accordance with SABS 1200 DM compacted to 95% Mod AASHTO density	<u>m³ 1623</u>	
57	Over site of G4 material in accordance with SABS 1200 DM compacted to 95% Mod AASHTO density	<u>m³ 991</u>	
Prescribed density tests on filling			
58	Modified AASHTO Density test	<u>No 50</u>	
		Carried to Collection	N\$
Section No. 3			
Bill No. 1			
External Works (provisional)			



		Rate	Amount
	Approved brand of anti-termite soil poison mixed with an approved brand of weedkiller and applied in accordance with the manufacturer's instructions:		
59	Under paving to parking areas etc to falls	<u>m² 3625</u>	
	35Mpa 80mm thick standard grey double zig zag interlocking roadstone paving with open joints on and including 20mm thick river sand bed with dry filler sand swept and vibrated into joints all laid on subgrade (elsewhere measured) conforming to SABS 1200D degree of accuracy I.		
60	Paving to road areas, etc.	<u>m² 4250</u>	
	35Mpa 60mm thick standard grey double zig zag interlocking roadstone paving with open joints on and including 25mm thick river sand bed with dry filler sand swept and vibrated into joints all laid on subgrade (elsewhere measured) conforming to SABS 1200D degree of accuracy I.		
61	Paving to parking, walkways, etc.	<u>m² 305</u>	
	Precast concrete kerbing (complying with SABS 927) in 1m lengths, wet pressed, placed in position, bedded and jointed in (3:1) cement mortar and flush pointed on exposed faces, including 15MPa/19mm unreinforced concrete haunching at back of each joint, excavation, backfilling, ramming, etc.:		
62	Barrier kerb 125 x 250mm high circular on plan.	<u>m 736</u>	
63	Mountable kerb 250 x 125mm high.	<u>m 194</u>	
	Grade 15Mpa/19mm unreinforced concrete in:		
64	Backing concrete fill under kerbs.	<u>m³ 12</u>	
	LANDSCAPING		
	Rockery boulders		
65	Rockery boulder approximately 400mm diameter obtained from stock piles on site	<u>No 266</u>	
	Carried to Collection		
	Section No. 3		
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		N\$	



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EXTERNAL WORKS (PROVISIONAL)
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Bill No. 1
External Works (provisional)



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SECTION NO. 3
EXTERNAL WORKS
SECTION SUMMARY

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1 EXTERNAL WORKS (PROVISIONAL)

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SECTION SUMMARY



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SECTION NO. 4
SPECIALIST INSTALLATIONS



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Amount

SECTION NO. 4

SPECIALIST INSTALLATIONS

SPECIALIST INSTALLATIONS

Electrical Installation

- 1 Provide the amount for Electrical Installation as per Bills of Quantities attached as Annexure 2

Item

Telecom and Data Installation

- 2 Provide the amount for Telecom and Data Installation as per Bills of Quantities attached as Annexure 3

Item

Electronic Installation

- 3 Provide the amount for Electronic Installation as per Bills of Quantities attached as Annexure 4

Item

HVAC Installation

- 4 Provide the amount for HVAC Installation as per Bills of Quantities attached as Annexure 5

Item

Carried to Final Summary

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Section No. 4
Bill No. 1
Provisional Sums



SECTION NO. 5
BUDGETARY ALLOWANCES



Transkalahari Border Post

Amount

SECTION NO. 5

BUDGETARY ALLOWANCES

BUDGETARY ALLOWANCES

Budgetary Allowances

- 1 Provide the sum of N\$200,000.00 (Two Hundred Thousand Namibia Dollars) for Signage.

Item	Amount
	200 000 00
<hr/>	
<hr/>	

Carried to Final Summary

N\$

Section No. 5
Bill No. 1
Budgetary Allowances



Section No.

FINAL SUMMARY

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ADD: CONTINGENCIES

Allow the Amount of N\$1,500,000.00 (One Million Five Hundred Thousand Namibia Dollars) for contingencies, to be used by the Project Manager as per Conditions of Contract to be deducted in whole or in part if not needed.

1 500 000 00

SubTotal before VAT

ADD VAT @ 15%:

Carried to Tender

N\$

FINAL SUMMARY